

REVISED AGENDA

UNIFORM BUILDING CODE COMMISSION
ARCHITECTURAL ADVISORY COMMITTEE
UNIFIED CODE ANALYSIS COUNCIL
MEETING

June 2, 2015 9:00 AM

Sandy City Hall Room 341

10000 Centennial Pkwy, Sandy, UT

This agenda is subject to change up to 24 hours prior to the meeting.

Sign attendance sheet

1. Approve minutes from the February 3, March 3, and April 7, 2015 joint meeting for the Unified Code Analysis Council and minutes from the May 5, 2015 meeting
2. Complete review of 2015 IRC and current amendments
3. Review recommendation from Structural Advisory Committed for the 2015 IEBC
4. Start review of 2015 IFC and current amendments
5. Review recommendations made to Title 15A

INFO ITEMS

- a. IBC Amendment Status Log
- b. IRC Amendment Status Log
- c. IEBC Amendment Status Log

Next Scheduled Meeting: July 7, 2015

If you do not plan on attending this meeting, please call Sharon at 530-6163 or email at ssmalley@utah.gov or dansjones@utah.gov.



In compliance with the Americans with Disabilities Act, individuals needing special accommodations (including auxiliary communicative aids and services) during this meeting should notify Dave Taylor, ADA Coordinator, at least three working days prior to the meeting. Division of Occupational and Professional Licensing, 160 East 300 South, Salt Lake City UT 84115, Phone 530-6628 or toll-free in Utah only 866-275-3675.

15A-2-101. Title -- Adoption of code.

- (1) This chapter is known as the "Adoption of State Construction Code."
- (2) In accordance with Chapter 1, Part 2, State Construction Code Administration Act, the Legislature repeals the State Construction Code in effect on July 1, 2010, and adopts the following as the State Construction Code:
 - (a) this chapter;
 - (b) Chapter 3, Statewide Amendments Incorporated as Part of State Construction Code; and
 - (c) Chapter 4, Local Amendments Incorporated as Part of State Construction Code.

Enacted by Chapter 14, 2011 General Session

15A-2-102. Definitions.

As used in this chapter and Chapter 3, Statewide Amendments Incorporated as Part of State Construction Code, and Chapter 4, Local Amendments Incorporated as Part of State Construction Code:

- (1) "HUD Code" means the Federal Manufactured Housing Construction and Safety Standards Act, as issued by the Department of Housing and Urban Development and published in 24 C.F.R. Parts 3280 and 3282 (as revised April 1, 1990).
- (2) "IBC" means the edition of the International Building Code adopted under Section 15A-2-103.
- (3) "IECC" means the edition of the International Energy Conservation Code adopted under Section 15A-2-103.
- (4) "IFGC" means the edition of the International Fuel Gas Code adopted under Section 15A-2-103.
- (5) "IMC" means the edition of the International Mechanical Code adopted under Section 15A-2-103.
- (6) "IPC" means the edition of the International Plumbing Code adopted under Section 15A-2-103.
- (7) "IRC" means the edition of the International Residential Code adopted under Section 15A-2-103.
- (8) "NEC" means the edition of the National Electrical Code adopted under Section 15A-2-103.
- (9) "UWUI" means the edition of the Utah Wildland Urban Interface Code adopted under Section 15A-2-103.
- (10) "IEBC" means the edition of the International Existing Building Code adopted under Section 15A-2-103.

Amended by Chapter 189, 2014 General Session

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

- (1) Subject to the other provisions of this part, the following construction codes are incorporated by reference, and together with the amendments specified in Chapter 3, Statewide Amendments to International Plumbing Code, and Chapter 4, Local Amendments Incorporated as Part of State Construction Code, are the

construction standards to be applied to building construction, alteration, remodeling, and repair, and in the regulation of building construction, alteration, remodeling, and repair in the state:

- (a) the ~~2012~~ 2015 edition of the International Building Code, including Appendix J, issued by the International Code Council;
 - (b) the ~~2012~~ 2015 edition of the International Residential Code, issued by the International Code Council;
 - (c) the ~~2012~~ 2015 edition of the International Plumbing Code, issued by the International Code Council;
 - (d) the ~~2012~~ 2015 edition of the International Mechanical Code, issued by the International Code Council;
 - (e) the ~~2012~~ 2015 edition of the International Fuel Gas Code, issued by the International Code Council;
 - (f) the 2011 edition of the National Electrical Code, issued by the National Fire Protection Association;
 - (g) the ~~2012~~ 2015 edition of the International Energy Conservation Code, issued by the International Code Council;
 - (h) the 2015 edition of the International Existing Building Code, issued by the International Code Council;
 - (~~h~~) (i) subject to Subsection 15A-2-104(2), the HUD Code;
 - (~~h~~) (j) subject to Subsection 15A-2-104(1), Appendix E of the ~~2012~~ 2015 edition of the International Residential Code, issued by the International Code Council; and
 - (~~h~~) (k) subject to Subsection 15A-2-104(1), the 2005 edition of the NFPA 225 Model Manufactured Home Installation Standard, issued by the National Fire Protection Association.
- (2) Consistent with Title 65A, Chapter 8, Management of Forest Lands and Fire Control, the Legislature adopts the 2006 edition of the Utah Wildland Urban Interface Code, issued by the International Code Council, with the alternatives or amendments approved by the Utah Division of Forestry, as a construction code that may be adopted by a local compliance agency by local ordinance or other similar action as a local amendment to the codes listed in this section.

Amended by Chapter 279, 2013 General Session

Amended by Chapter 297, 2013 General Session

15A-2-104. Installation standards for manufactured housing.

- (1) The following are the installation standards for manufactured housing for new installations or for existing manufactured or mobile homes that are subject to relocation, building alteration, remodeling, or rehabilitation in the state:
- (a) The manufacturer's installation instruction for the model being installed is the primary standard.
 - (b) If the manufacturer's installation instruction for the model being installed is not available or is incomplete, the following standards apply:
 - (i) Appendix E of the ~~2012~~ 2015 edition of the IRC, as issued by the International Code Council for installations defined in Section AE1.01 of Appendix E; or

- (ii) if an installation is beyond the scope of the ~~2012~~ 2015 edition of the IRC as defined in Section AE101 of Appendix E, the 2005 edition of the NFPA 225 Model Manufactured Home Installation Standard, issued by the National Fire Protection Association.
 - (c) A manufacturer, dealer, or homeowner is permitted to design for unusual installation of a manufactured home not provided for in the manufacturer's standard installation instruction, Appendix E of the ~~2012~~ 2015 edition of the IRC, or the 2005 edition of the NFPA 225, if the design is approved in writing by a professional engineer or architect licensed in Utah.
 - (d) For a mobile home built before June 15, 1976, the mobile home shall also comply with the additional installation and safety requirements specified in Chapter 3, Part 8, Installation and Safety Requirements for Mobile Homes Built Before June 15, 1976.
- (2) Pursuant to the HUD Code Section 604(d), a manufactured home may be installed in the state that does not meet the local snow load requirements as specified in Chapter 3, Part 2, Statewide Amendments to International Residential Code, except that the manufactured home shall have a protective structure built over the home that meets the IRC and the snow load requirements under Chapter 3, Part 2, Statewide Amendments to International Residential Code.

Amended by Chapter 189, 2014 General Session

15A-2-105. Scope of application.

- (1) To the extent that a construction code adopted under Section 15A-2-103 establishes a local administrative function or establishes a method of appeal which pursuant to Section 15A-1-207 is designated to be established by the compliance agency:
- (a) that provision of the construction code is not included in the State Construction Code; and
 - (b) a compliance agency may establish provisions to establish a local administrative function or a method of appeal.
- (2) (a) To the extent that a construction code adopted under Subsection (1) establishes a provision, standard, or reference to another code that by state statute is designated to be established or administered by another state agency, or a local city, town, or county jurisdiction:
- (i) that provision of the construction code is not included in the State Construction Code; and
 - (ii) the state agency or local government has authority over that provision of the construction code.
- (b) Provisions excluded under this Subsection (2) include:
- (i) the International Property Maintenance Code;
 - (ii) the International Private Sewage Disposal Code, authority over which is reserved to the Department of Health and the Department of Environmental Quality;
 - (iii) the International Fire Code, authority over which is reserved to the board, pursuant to Section 15A-1-403;

- (iv) a day care provision that is in conflict with Title 26, Chapter 39, Utah Child Care Licensing Act, authority over which is designated to the Utah Department of Health; and
 - (v) a wildland urban interface provision that goes beyond the authority under Section 15A-1-204, for the State Construction Code, authority over which is designated to the Utah Division of Forestry or to a local compliance agency.
- (3) If a construction code adopted under Subsection 15A-2-103(1) establishes a provision that exceeds the scope described in Chapter 1, Part 2, State Construction Code Administration Act, to the extent the scope is exceeded, the provision is not included in the State Construction Code.

Enacted by Chapter 14, 2011 General Session

15A-3-101. General provision.

The amendments in this part are adopted as amendments to the IBC to be applicable statewide.

Enacted by Chapter 14, 2011 General Session

15A-3-102. Amendments to Chapters 1 through 3 of IBC.

- (1) IBC, Section 106, is deleted.
- (2) (a) In IBC, Section 110, a new section is added as follows: "110.3.5.1, Weather-resistant exterior wall envelope. An inspection shall be made of the weather-resistant exterior wall envelope as required by Section 1403.2, and flashing as required by Section 1405.4 to prevent water from entering the weather-resistive barrier."
- (b) ~~The remaining sections of IBC, Section 110, are renumbered as follows: 110.3.6, Lath or gypsum board inspection; 110.3.7, Fire and smoke-resistant penetrations; 110.3.8, Energy efficiency inspections; 110.3.9, Other inspections; 110.3.10, Special inspections; and 110.3.11, Final inspection.~~
- (3) IBC, Section 115.1, is deleted and replaced with the following: "115.1 Authority. Whenever the building official finds any work regulated by this code being performed in a manner either contrary to the provisions of this code or other pertinent laws or ordinances or is dangerous or unsafe, the building official is authorized to issue a stop work order."
- (4) In IBC, Section 202, the following definition is added for Ambulatory Surgical Center: "AMBULATORY SURGICAL CENTER. A building or portion of a building licensed by the Utah Department of Health where procedures are performed that may render patients incapable of self preservation where care is less than 24 hours. See Utah Administrative Code R432-13."
- (5) In IBC, Section 202, the definition for Foster Care Facilities is modified by changing the word "Foster" to "Child."
- (6) In IBC, Section 202, the definition for "[F]Record Drawings" is modified by deleting the words "a fire alarm system" and replacing them with "any fire protection system".
- (7) In IBC, Section 202, the following definition is added for Residential

Treatment/Support Assisted Living Facility: "RESIDENTIAL TREATMENT/SUPPORT ASSISTED LIVING FACILITY. See Section 308.1.2."

- (8) In IBC, Section 202, the following definition is added for Type I Assisted Living Facility: "TYPE I ASSISTED LIVING FACILITY. See Section 308.1.2."
- (9) In IBC, Section 202, the following definition is added for Type II Assisted Living Facility: "TYPE II ASSISTED LIVING FACILITY. See Section 308.1.2."
- (10) ~~In the list in IBC, Section 304.1, the following words are added after the words "Ambulatory care facilities": "where four or more care recipients are rendered incapable of self preservation."~~
- (11) (10) In IBC, Section 305.2, the words "child care centers," are inserted after the word "supervision," and the following sentence is added at the end of the paragraph: "See Section ~~425~~ 427 for special requirements for Day Care."
- (12) (11) In IBC, Section 305.2.2 and 305.2.3, the word "five" is deleted and replaced with the word "four" in both places.
- (13) (12) A new IBC Section 305.2.4 is added as follows: "305.2.4 Child Day Care -- Residential Certificate or a Family License. Areas used for child day care purposes with a Residential Certificate R430-50 or a Family License, as defined in Utah Administrative Code, R430-90, Licensed Family Child Care, may be located in a Group R-2 or R-3 occupancy as provided in Section 310.5 or shall comply with the International Residential Code in accordance with Section R101.2."
- (14) (13) A new IBC Section 305.2.5 is added as follows: "305.2.5 Child Care Centers. Areas used for Hourly Child Care Centers, as defined in Utah Administrative Code, R430-60, Child Care Center as defined in Utah Administrative Code, R430-100, or Out of School Time Programs, as defined in Utah Administrative Code, R430-70, may be classified as accessory occupancies."
- (15) In IBC, Table 307.1(1), footnote "d" is added to the row for Consumer fireworks in the column titled STORAGE - Solid Pounds (cubic feet).
- (16) (15) In IBC, Section 308.2, the word "FOSTER" is deleted and replace with "CHILD".
- (17) (16) A new IBC Section 308.2.1 is added as follows: "308.2.1 Assisted living facilities and related occupancies. The following words and terms shall, for the purposes of this section and as used elsewhere in this code, have the meanings shown herein.

TYPE I ASSISTED LIVING FACILITY. A residential facility licensed by the Utah Department of Health that provides a protected living arrangement for ambulatory, non-restrained persons who are capable of achieving mobility sufficient to exit the facility without the assistance of another person. Occupancies. Limited capacity, type I assisted living facilities with two to five residents shall be classified as R-3 occupancies. Small, type I assisted living facilities with six to sixteen residents shall be classified as R-4 occupancies. Large, type I assisted living facilities with over sixteen residents shall be classified as I-1 occupancies.

TYPE II ASSISTED LIVING FACILITY. A residential facility licensed by the Utah Department of Health that provides an array of coordinated supportive personal and health care services to residents who meet the definition of semi-independent.

Semi-Independent. A person who is:

- A. Physically disabled but able to direct his or her own care; or
- B. Cognitively impaired or physically disabled but able to evacuate from the facility with the physical assistance of one person.

Occupancies. Limited capacity, type II assisted living facilities with two to five residents shall be classified as R-4 occupancies. Small, type II assisted living facilities with six to sixteen residents shall be classified as I-1 occupancies. Large, type II assisted living facilities with over sixteen residents shall be classified as I-2 occupancies.

RESIDENTIAL TREATMENT/SUPPORT ASSISTED LIVING FACILITY. A residential treatment/support assisted living facility which creates a group living environment for four or more residents licensed by the Utah Department of Human Services, and provides a protected living arrangement for ambulatory, non-restrained persons who are capable of achieving mobility sufficient to exit the facility without the physical assistance of another person."

- (16) (17) In IBC, Section 308.3, the words "(see Section 308.2.1)" are added after the words "assisted living facilities".
- (17) (18) In IBC, Section 308.3.14, all of the words after the first International Residential Code are deleted.
- (18) (19) In IBC, Section 308.4, the following changes are made:
 - (a) The words "five persons" are deleted and replaced with the words "three persons."
 - (b) The words "foster care facilities" are deleted and replaced with "child care facilities."
 - (c) The words "(both intermediate care facilities and skilled nursing facilities)" are added after "nursing homes."
 - (d) ~~The words "Ambulatory Surgical Centers with five or more operating rooms" are added to the list.~~
- (19) (20) In IBC, Section 308.4.12, the word "five" is deleted and replaced with the word "three" in both places.
- (20) (21) In IBC, Section 308.6, the word "five" is deleted and replaced with the word "four".
- (21) (22) In IBC, Section 308.6.1, the following changes are made:
 - (a) The word "five" is deleted and replaced with the word "four".
 - (b) The words "2 ½ years or less of age" are deleted and replaced with "under the age of two".
 - (c) The following sentence is added at the end: "See Section ~~425~~ 427 for special requirements for Day Care."
- (22) (23) In IBC, Sections 308.6.3 and 308.6.4, the word "five" is deleted and replaced with the word "four" in both places and the following sentence is added at the end: "See Section ~~425~~ 427 for special requirements for Day Care."
- (23) (24) In IBC, Section 310.5, the words "and single family dwellings complying with the IRC" are added after "Residential occupancies".
- (24) (25) In IBC, Section 310.5.1, the words "other than Child Care" are inserted after

the word "dwelling" in the first sentence and the following sentence is added at the end: "See Section ~~425~~ 427 for special requirements for Child Day Care."

~~(25)~~ (26) A new IBC Section ~~310.5.2~~ 310.5.3 is added as follows: "~~310.5.2~~ 310.5.3 Child Care. Areas used for child care purposes may be located in a residential dwelling unit under all of the following conditions and Section ~~425~~ 427:

1. Compliance with Utah Administrative Code, R710-8, Day Care Rules, as enacted under the authority of the Utah Fire Prevention Board.
2. Use is approved by the Utah Department of Health, as enacted under the authority of the Utah Code, Title 26, Chapter 39, Utah Child Care Licensing Act, and in any of the following categories:
 - a. Utah Administrative Code, R430-50, Residential Certificate Child Care.
 - b. Utah Administrative Code, R430-90, Licensed Family Child Care.
3. Compliance with all zoning regulations of the local regulator."

~~(26)~~ (27) In IBC, Section 310.6, the words "(see Section 308.2.1)" are added after "assisted living facilities".

Amended by Chapter 297, 2013 General Session

15A-3-103. Amendments to Chapters 4 through 6 of IBC.

(1) IBC Section 403.5.5 is deleted.

~~(2)~~ IBC Section ~~(F)406.5.8~~ is deleted and replaced with the following:

~~"(F)406.5.8 Standpipe system. An open parking garage shall be equipped with an approved Class I manual standpipe system when fire department access is not provided for firefighting operations to within 150 feet of all portions of the open parking garage as measured from the approved fire department vehicle access.~~

~~Exception: Open parking garages equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 and a standpipe system is not required by Section 905.3.1."~~

~~(3)~~ A new IBC Section ~~(F)406.5.8.1~~ is added as follows: "~~(F)406.5.8.1 Installation requirements. Class I manual standpipe shall be designed and installed in accordance with Section 905 and NFPA 14. Class I manual standpipe shall be accessible throughout the parking garage such that all portions of the parking structure are protected within 150 feet of a hose connection."~~

~~(4)~~ (2) In IBC, Section 422.2, a new paragraph is added as follows: "422.2 Separations: Ambulatory care facilities licensed by the Utah Department of Health shall be separated from adjacent tenants with a fire ~~barrier~~ partition having a minimum one hour fire-resistance rating. Any level below the level of exit discharge shall be separated from the level of exit discharge by a horizontal assembly having a minimum one hour fire-resistance rating.

Exception: A fire barrier is not required to separate the level of exit discharge when:

1. Such levels are under the control of the Ambulatory Care Facility.
2. Any hazardous spaces are separated by horizontal assembly having a minimum one hour fire-resistance rating."

~~(5)~~ (3) A new IBC Section ~~425~~ 427, Day Care, is added as follows:

- "425.1 427.1 Detailed Requirements. In addition to the occupancy and construction requirements in this code, the additional provisions of this section shall apply to all Day Care in accordance with Utah Administrative Code R710-8 Day Care Rules.
- 425.2 427.2 Definitions.
- 425.2.1 427.2.1 Authority Having Jurisdiction (AHJ): State Fire Marshal, his duly authorized deputies, or the local fire enforcement authority code official.
- 425.2.2 427.2.2 Day Care Facility: Any building or structure occupied by clients of any age who receive custodial care for less than 24 hours by individuals other than parents, guardians, relatives by blood, marriage or adoption.
- 425.2.3 427.2.3 Day Care Center: Providing care for five or more clients in a place other than the home of the person cared for. This would also include Child Care Centers, Out of School Time or Hourly Child Care Centers licensed by the Department of Health.
- 425.2.4 427.2.4 Family Day Care: Providing care for clients listed in the following two groups:
- 425.2.4.1 427.2.4.1 Type 1: Services provided for five to eight clients in a home. This would also include a home that is certified by the Department of Health as Residential Certificate Child Care or licensed as Family Child Care.
- 425.2.4.2 427.2.4.2 Type 2: Services provided for nine to sixteen clients in a home with sufficient staffing. This would also include a home that is licensed by the Department of Health as Family Child Care.
- 425.2.5 427.2.5 R710-8: Utah Administrative Code, R710-8, Day Care Rules, as enacted under the authority of the Utah Fire Prevention Board.
- 425.3. 427.3 Family Day Care.
- 425.3.1 427.3.1 Family Day Care units shall have on each floor occupied by clients, two separate means of egress, arranged so that if one is blocked the other will be available.
- 425.3.2 427.3.2 Family Day Care units that are located in the basement or on the second story shall be provided with two means of egress, one of which shall discharge directly to the outside.
- 425.3.2.1 427.3.2.1 Residential Certificate Child Care and Licensed Family Child Care with five to eight clients in a home, located on the ground level or in a basement, may use an emergency escape or rescue window as allowed in IFC, Chapter 10, Section ~~1029~~ 1030.
- 425.3.3 427.3.3 Family Day Care units shall not be located above the second story.
- 425.3.4 427.3.4 In Family Day Care units, clients under the age of two shall not be located above or below the first story.
- 425.3.4.1 427.3.4.1 Clients under the age of two may be housed above or below the first story where there is at least one exit that leads directly to the outside and complies with IFC, Section ~~1009~~ 1011 or Section ~~1010~~ or 1012, Section ~~1026~~ 1027.
- 425.3.5 427.3.5 Family Day Care units located in split entry/split level type homes in which stairs to the lower level and upper level are equal or nearly equal, may have clients housed on both levels when approved by the AHJ.

- 425.3.6 427.3.6 Family Day Care units shall have a portable fire extinguisher on each level occupied by clients, which shall have a classification of not less than 2A:10BC, and shall be serviced in accordance with NFPA, Standard 10, Standard for Portable Fire Extinguishers.
- 425.3.7 427.3.7 Family Day Care units shall have single station smoke detectors in good operating condition on each level occupied by clients. Battery operated smoke detectors shall be permitted if the facility demonstrates testing, maintenance, and battery replacement to insure continued operation of the smoke detectors.
- 425.3.8 427.3.8 Rooms in Family Day Care units that are provided for clients to sleep or nap, shall have at least one window or door approved for emergency escape.
- 425.3.9 427.3.9 Fire drills shall be conducted in Family Day Care units quarterly and shall include the complete evacuation from the building of all clients and staff. At least annually, in Type I Family Day Care units, the fire drill shall include the actual evacuation using the escape or rescue window, if one is used as a substitute for one of the required means of egress.
- 425.4 427.4 Day Care Centers.
- 425.4.1 427.4.1 Day Care Centers shall comply with either I-4 requirements or E requirements of the IBC, whichever is applicable for the type of Day Care Center.
- 425.4.2 427.4.2 Emergency Evacuation Drills shall be completed as required in IFC, Chapter 4, Section 405.
- 425.4.3 427.4.3 Location at grade. Group E child day care centers shall be located at the level of exit discharge.
- 425.4.3.1 427.4.3.1 Child day care spaces for children over the age of 24 months may be located on the second floor of buildings equipped with automatic fire protection throughout and an automatic fire alarm system.
- 425.4.4 427.4.4 Egress. All Group E child day care spaces with an occupant load of more than 10 shall have a second means of egress. If the second means of egress is not an exit door leading directly to the exterior, the room shall have an emergency escape and rescue window complying with Section ~~1029~~ 1030.
- 425.4.5 427.4.5 All Group E Child Day Care Centers shall comply with Utah Administrative Code, R430-100 Child Care Centers, R430-60 Hourly Child Care Centers, and R430-70 Out of School Time.
- 425.5 427.5 Requirements for all Day Care.
- 425.5.1 427.5.1 Heating equipment in spaces occupied by children shall be provided with partitions, screens, or other means to protect children from hot surfaces and open flames.
- 425.5.2 427.5.2 A fire escape plan shall be completed and posted in a conspicuous place. All staff shall be trained on the fire escape plan and procedure."
- (6) (4) In IBC, Section ~~504.2~~ 504.4, a new section is added as follows: "~~504.2.1~~ 504.4.1 Notwithstanding the exceptions to Section ~~504.2~~, Group I-2 Assisted Living Facilities shall be allowed on each level of a ~~to be two stories~~ story building of Type V-A construction when all of the following apply:

1. All secured units are located at the level of exit discharge in compliance with Section ~~1008.1.9.3~~ 1010.1.9.3 as amended;
2. The total combined area of both stories shall not exceed the total allowable area for a one-story building; and
3. All other provisions that apply in Section 407 have been provided."

Amended by Chapter 297, 2013 General Session

15A-3-104. Amendments to Chapters 7 through 9 of IBC.

- (1) IBC, Section (F)901.8, is deleted and replaced with the following: "(F)901.8 Pump and riser room size. Fire pump and automatic sprinkler system riser rooms shall be designed with adequate space for all installed equipment necessary for the installation and to provide sufficient working space around the stationary equipment. Clearances around equipment shall be in accordance with manufacturer requirements and not less than the following minimum elements:
 - 901.8.1 A minimum clear and unobstructed distance of 12-inches shall be provided from the installed equipment to the elements of permanent construction.
 - 901.8.2 A minimum clear and unobstructed distance of 12-inches shall be provided between all other installed equipment and appliances.
 - 901.8.3 A clear and unobstructed width of 36-inches shall be provided in front of all installed equipment and appliances, to allow for inspection, service, repair or replacement without removing such elements of permanent construction or disabling the function of a required fire-resistance-rated assembly.
 - 901.8.4 Automatic sprinkler system riser rooms shall be provided with a clear and unobstructed passageway to the riser room of not less than 36-inches, and openings into the room shall be clear and unobstructed, with doors swinging in the outward direction from the room and the opening providing a clear width of not less than 34-inches and a clear height of the door opening shall not be less than 80-inches.
 - 901.8.5 Fire pump rooms shall be provided with a clear and unobstructed passageway to the fire pump room of not less than 72-inches, and openings into the room shall be clear, unobstructed and large enough to allow for the removal of the largest piece of equipment, with doors swinging in the outward direction from the room and the opening providing a clear width of not less than 68-inches and a clear height of the door opening shall not be less than 80-inches."
- (2) In IBC, Section (F)903.2.2, the words "the entire floor" are deleted and replaced with "a building" and the last paragraph is deleted.
- (3) IBC, Section (F)903.2.4, condition 2, is deleted and replaced with the following: "2. A Group F-1 fire area is located more than three stories above the lowest level of fire department vehicle access."
- (4) IBC, Section (F)903.2.7, condition 2, is deleted and replaced with the following: "2. A Group M fire area is located more than three stories above the lowest level of fire department vehicle access."
- (5) IBC, Sections (F)903.2.8, (F)903.2.8.1, and (F)903.2.8.2, are deleted and

replaced with the following: "(F)903.2.8 Group R. An automatic sprinkler system installed in accordance with Section 903.3 shall be provided throughout all buildings with a Group R fire area.

Exceptions:

1. Detached one- and two-family dwellings and multiple single-family dwellings (townhouses) constructed in accordance with the International Residential Code For One- and Two-Family Dwellings.
 2. Single story Group R-1 occupancies with fire areas not more than 2,000 square feet that contain no installed plumbing or heating, where no cooking occurs, and constructed of Type I-A, I-B, II-A, or II-B construction.
- (6) IBC, Section (F)903.2.8.3 and (F)903.8.3.1 are renumbered to (F)903.2.8.1 and (F) 903.2.8.1.1.
- (7) IBC, Section (F)903.2.8.3.2 is renumbered to (F)903.2.8.1.2 and the following exception is added.
- 3- (1) Group R-4 fire areas not more than 4,500 gross square feet and not containing more than 16 residents, provided the building is equipped throughout with an approved fire alarm system that is interconnected and receives its primary power from the building wiring and a commercial power system."
- (8) IBC, Section (F) 903.2.8.4 is deleted.
- (6) (9) IBC, Section (F)903.2.9, condition 2, is deleted and replaced with the following: "2. A Group S-1 fire area is located more than three stories above the lowest level of fire department vehicle access."
- (7) (10) IBC, Section (F)904.11 (F)904.12, is deleted and replaced with the following: (F)904.11 (F)904.12 Commercial cooking systems. The automatic fire-extinguishing system for commercial cooking systems shall be of a type recognized for protection of commercial cooking equipment and exhaust systems. Pre-engineered automatic extinguishing systems shall be tested in accordance with UL 300 and listed and labeled for the intended application. The system shall be installed in accordance with this code, its listing and the manufacturer's installation instructions.
- Exception: Factory-built commercial cooking recirculating systems that are tested in accordance with UL 710B and listed, labeled, and installed in accordance with Section 304.1 of the International Mechanical Code."
- (8) (11) IBC, Sections (F)904.11.3, (F)904.11.3.1, (F)904.11.4, and (F)904.11.4.1 (F)904.12.3, (F)904.12.3.1, (F)904.12.4, and (F)904.12.4.1 are deleted.
- (12) In IBC, Section (F)905.3.9, a new subsection is added as follows: "Open Parking Garages. Open parking garages shall be equipped with an approved Class 1 manual standpipe system when fire department access is not provided for firefighting operations to within 150 feet of all portions of the open parking garage as measured from the approved fire department vehicle access. Class 1 manual standpipe shall be accessible throughout the parking garage such that all portions of the parking structure are protected within 150 fee of a hose connection."
- (13) In IBC, Section (F)905.8, the exception is deleted and replaced with the following: "Exception: Where subject to freezing conditions and approved by the fire code official."
- (9) (14) IBC, Section (F)907.2.3 Group E:

- (a) ~~The first sentence is deleted and rewritten as follows: "A manual fire alarm system that initiates activates the occupant notification system in accordance with Section (F)907.5 and installed in accordance with Section (F)907.6 and Utah Administrative Rule R710-4, shall be installed in Group E occupancies."~~
- (b) ~~In Exception number 3, starting on line five, the words "emergency voice/alarm communication system" are deleted and replaced with "occupant notification system".~~
- (10) ~~In IBC, Section (F)908.7, the first sentence is deleted and replaced as follows: "Groups R-1, R-2, R-3, R-4, I-1, and I-4 occupancies"; the exceptions are deleted and the following sentence is added after the first sentence: "A minimum of one carbon monoxide alarm shall be installed on each habitable level."~~
- (11) ~~In IBC, Section (F)908.7, the following new subsections are added:
 "(F)908.7.1 Interconnection. Where more than one carbon monoxide alarm is required to be installed within Group R or I-1 occupancies, the carbon monoxide alarms shall be interconnected in such a manner that the activation of one alarm will activate all of the alarms. Physical interconnection of carbon monoxide alarms shall not be required where listed wireless alarms are installed and all alarms sound upon activation of one alarm. The alarm shall be clearly audible in all bedrooms over background noise levels with all intervening doors closed.
 (F)908.7.2 Power source. In new construction, required carbon monoxide alarms shall receive their primary power from the building wiring where such wiring is served from a commercial source and shall be equipped with a battery backup. Carbon monoxide alarms with integral strobes that are not equipped with battery backup shall be connected to an emergency electrical system. Carbon monoxide alarms shall emit a signal when the batteries are low. Wiring shall be permanent and without a disconnecting switch other than as required for overcurrent protection. Exception: Carbon monoxide alarms are not required to be equipped with battery backup where they are connected to an emergency electrical system."~~
- (12) ~~IBC, Section (F)908.7.1, is renumbered to 908.7.3.~~
- (15) ~~IBC Sections (F)915 through (F)915.6 are deleted and replaced with the following:
 (F) 915 Where required. Group I-1, I-2, I-4 and R occupancies located in a building containing a fuel-burning appliance or in a building which has an attached garage shall be equipped with single-station carbon monoxide alarms. The carbon monoxide alarms shall be listed as complying with UL 2034 or UL 2075 and be installed and maintained in accordance with NFPA 720 and the manufacturer's instructions. An open parking garage, as defined in Chapter 2, or an enclosed parking garage ventilated in accordance with Section 404 of the International Mechanical Code shall not be considered an attached garage. A minimum of one carbon monoxide alarm shall be installed on each habitable level.
 (F)915.1 Interconnection. Where more than one carbon monoxide alarm is required to be installed within Group I-1, I-2, I-4 or R occupancies, the carbon monoxide alarm shall be interconnected in such a manner that the activation of one alarm will active all of the alarms. Physical interconnection of carbon monoxide alarms shall not be required where listed wireless alarms are installed and all alarms~~

sound upon activation of one alarm. The alarm shall be clearly audible in all bedrooms over background noise levels with all intervening doors closed.

(F)915.2 Power Source. In new construction, required carbon monoxide alarms shall receive their primary power from the building wiring where such wiring is served from a commercial source and shall be equipped with a battery backup. Carbon monoxide alarms with integral strobes that are not equipped with battery backup shall be connected to an emergency electrical system. Carbon monoxide alarms shall emit a signal when the batteries are low. Wiring shall be permanent and without a disconnecting switch other than as required for overcurrent protection. Exceptions.

1. Carbon monoxide alarms are not required to be equipped with battery backup where they are connected to an emergency electrical system.
2. Hard wiring of carbon monoxide alarms in existing areas shall not be required where the alterations or repairs do not result in the removal of interior wall or ceiling finishes exposing the structure, unless there is an attic, crawl space or basement available which could provide access for hard wiring, without the removal of interior finishes.

(F) 915.3 Group E. A carbon monoxide detection system shall be installed in new buildings that contain Group E occupancies in accordance with IFC Chapter 9, Section 915. A carbon monoxide detection system shall be installed in existing buildings that contain Group, E occupancies in accordance with IFC, Chapter 11, Section 1103.9.

(F)915.3.1 Where required. In Group E occupancies, a carbon monoxide detection system shall be provided where a fuel-burning appliance, a fuel-burning fireplace, or a fuel-burning forced air furnace is present.

(F)915.3.2 Detection equipment. Each carbon monoxide detection system shall be installed in accordance with NFPA 720 and the manufacturer's instructions, and be listed as complying with UL 2034 for single station and UL2075 for system detectors.

(F)915.3.3 Locations. Each carbon monoxide detection system shall be installed in the locations specified in NFPA 720.

(F)915.3.4 Combination detectors. A combination carbon monoxide/smoke detector is an acceptable alternative to a carbon monoxide detection system if the combination carbon monoxide/smoke detector is listed in accordance with UL 2075 and UL 268.

(F)915.3.5 Power source. Each carbon monoxide detection system shall receive primary power from the building wiring if the wiring is served from a commercial source. If primary power is interrupted, each carbon monoxide detection system shall receive power from a battery. Wiring shall be permanent and without a disconnecting switch other than that required for over-current protection.

(F)915.3.6 Maintenance. Each carbon monoxide detection system shall be maintained in accordance with NFPA 720. A carbon monoxide detection system that becomes inoperable or begins to produce end of life signals shall be replaced.

Amended by Chapter 243, 2014 General Session

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

- (1) In IBC, Section ~~1008.1.9.6~~ 1010.1.9.6, the words "Group I-1 and" are added in the title and in the first sentence before the words "Group I-2" and a new number 8 9 is added as follows: "8 9. The secure area or unit with special egress locks shall be located at the level of exit discharge in Type V construction."
- ~~(2)~~ In IBC, Section ~~1008.1.9.7~~, a new number 7 is added as follows: "7. The secure area or unit with delayed egress locks shall be located at the level of exit discharge in Type V construction."
- ~~(3)~~ (2) In IBC, Section ~~1009.7.2~~ 1011.5.2 exception ~~5 3~~ is deleted and replaced with the following: "5 3. In Group R-3 occupancies, within dwelling units in Group R-2 occupancies, and in Group U occupancies that are accessory to a Group R-3 occupancy, or accessory to individual dwelling units in Group R-2 occupancies, the maximum riser height shall be 8 inches (203 mm) and the minimum tread depth shall be 9 inches (229 mm). The minimum winder tread depth at the walk line shall be 10 inches (254 mm), and the minimum winder tread depth shall be 6 inches (152 mm). A nosing not less than 0.75 inch (19.1 mm) but not more than 1.25 inches (32 mm) shall be provided on stairways with solid risers where the tread depth is less than 10 inches (254 mm)."
- ~~(4)~~ (3) In IBC, Section ~~1009.15~~ 1011.11, a new exception 6 5 is added as follows: "6 5. In occupancies in Group R-3, as applicable in Section 101.2 and in occupancies in Group U, which are accessory to an occupancy in Group R-3, as applicable in Section 101.2, handrails shall be provided on at least one side of stairways consisting of four or more risers."
- ~~(5)~~ (4) In IBC, Section ~~1011.5~~ 1013.5, the words ", including when the building may not be fully occupied." are added at the end of the sentence.
- ~~(6)~~ (5) IBC, Section ~~1024~~ 1025, is deleted.
- ~~(7)~~ (6) In IBC, Section ~~1028.12~~ 1029.14 exception 2 is deleted.
- ~~(8)~~ (7) In IBC, Section 1109.8, the following words "shall be capable of operation without a key and" are inserted in the second sentence between the words "lift" and "shall".
- ~~(9)~~ (8) In IBC, Section 1208.4, subparagraph 1 is deleted and replaced with the following: "1. The unit shall have a living room of not less than 165 square feet (15.3 m²) of floor area. An additional 100 square feet (9.3 m²) of floor area shall be provided for each occupant of such unit in excess of two."

Amended by Chapter 297, 2013 General Session

15A-3-106. Amendments to Chapters 13, ~~and 14~~, and 15 of IBC.

IBC, Chapters 13, ~~and 14~~, and 15 are not amended.

Amended by Chapter 153, 2014 General Session

15A-3-106.5. Amendments to Chapter 15 of IBC.

- ~~(1)~~ IBC, Section ~~1505.8~~ is deleted.
- ~~(2)~~ IBC, Section ~~1509.7.2~~ is deleted.
- ~~(3)~~ IBC, Section ~~1509.7.4~~ is deleted and rewritten as follows:
"Photovoltaic panels and modules that are mounted on top of a roof shall:
 1. ~~Regardless of the roof assembly classification, be listed and labeled with at least a class C fire classification;~~

- 2. ~~Be listed and labeled in accordance with UL 1703; and~~
- 3. ~~Be installed in accordance with the manufacturer's installation instructions."~~
- (4) ~~Subsections (1) through (3) do not apply if the Legislature adopts, with or without amendment, an edition of the IBC that is more recent than the 2012 edition.~~

Enacted by Chapter 153, 2014 General Session

15A-3-107. Amendments to Chapter 16 of IBC.

- (1) In IBC, Table 1604.5, Risk Category III, in the sentence that begins "Group I-2," a new footnote c is added as follows: "c. Type II Assisted Living Facilities that are I-2 occupancy classifications in accordance with Section 308 shall be Risk Category II in this table."
- (2) In IBC, Section 1605.2, in the portion of the definition for the value of f_2 , the words "and 0.2 for other roof configurations" are deleted and replaced with the following: " $f_2 = 0.20 + .025(A-5)$ for other configurations where roof snow load exceeds 30 psf; $f_2 = 0$ for roof snow loads of 30 psf (1.44kN/m²) or less. Where A = Elevation above sea level at the location of the structure (ft./1,000)."
- (3) In IBC, Sections 1605.3.1 and 1605.3.2, exception 2 in each section is deleted and replaced with the following: "2. Flat roof snow loads of 30 pounds per square foot (1.44 kNm²) or less need not be combined with seismic loads. Where flat roof snow loads exceed 30 pounds per square foot (1.44 kNm²), the snow loads may be reduced in accordance with the following in load combinations including both snow and seismic loads. W_s as calculated below, shall be combined with seismic loads. $W_s = (0.20 + 0.025(A-5))P_f$ is greater than or equal to $0.20 P_f$.
Where:
 W_s = Weight of snow to be included in seismic calculations
A = Elevation above sea level at the location of the structure (ft./1,000)
 P_f = Design roof snow load, psf.
For the purpose of this section, snow load shall be assumed uniform on the roof footprint without including the effects of drift or sliding. The Importance Factor, I, used in calculating P_f may be considered 1.0 for use in the formula for W_s ."
- (4) IBC, Section 1608.1, is deleted and replaced with the following: "1608.1 General. Except as modified in Sections 1608.1.1, 1608.1.2, and 1608.1.3, design snow loads shall be determined in accordance with Chapter 7 of ASCE 7, but the design roof load shall not be less than that determined by Section 1607."
- (5) A new IBC, Section 1608.1.1, is added as follows: "1608.1.1 Section 7.4.5 of Chapter 7 of ASCE 7 referenced in Section 1608.1 of the IBC is deleted and replaced with the following: Section 7.4.5 Ice Dams and Icicles Along Eaves. Where ground snow loads exceed 75 psf, eaves shall be capable of sustaining a uniformly distributed load of $2P_f$ on all overhanging portions. No other loads except dead loads shall be present on the roof when this uniformly distributed load is applied. All building exits under down-slope eaves shall be protected from sliding snow and ice."
- (6) In IBC, Section 1608.1.2, a new section is added as follows: "1608.1.2 Utah Snow Loads. The snow loads specified in Table 1608.1.2(b) shall be used for the

jurisdictions identified in that table. Otherwise, the ground snow load, P_g , to be used in the determination of design snow loads for buildings and other structures shall be determined by using the following formula: $P_g = (P_o + S_2(A-A_o)^2)^{0.5}$ for A greater than A_o , and $P_g = P_o$ for A less than or equal to A_o .

WHERE:

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

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

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

A = Elevation above sea level at the site (ft./1,000);

A_o = Base ground snow elevation from Table 1608.1.2(a) (ft./1,000).

The building official may round the roof snow load to the nearest 5 psf. The ground snow load, P_g , may be adjusted by the building official when a licensed engineer or architect submits data substantiating the adjustments. Where the minimum roof live load in accordance with Section 1607.11 is greater than the design roof snow load, such roof live load shall be used for design, however, it shall not be reduced to a load lower than the design roof snow load. Drifting need not be considered for roof snow loads less than 20 psf."

- (7) IBC, Table 1608.1.2(a) and Table 1608.1.2(b), are added as follows:

"TABLE NO. 1608.1.2(a)

STATE OF UTAH - REGIONAL SNOW LOAD FACTORS

COUNTY	P_o	S	A_o
Beaver	43	6.2	
Box Elder	43	6.3	5.2
Cache	50	6.3	4.5
Carbon	63	5.2	
Daggett	43	6.3	6.5
Davis	43	6.3	4.5
Duchesne	43	6.3	6.5
Emery	43	6.3	6.0
Garfield	43	6.3	6.0
Grand	36	6.3	6.5
Iron	43	6.3	5.8
Juab	43	6.3	5.2
Kane	36	6.3	5.7
Millard	43	6.3	5.3
Morgan	57	6.3	4.5
Piute	43	6.3	6.2
Rich	57	6.3	4.1
Salt Lake	43	6.3	4.5
San Juan	43	6.3	6.5
Sanpete	43	6.3	5.2
Sevier	43	6.3	6.0
Summit	86	6.3	5.0
Tooele	43	6.3	4.5
Uintah	43	6.3	7.0

Utah	43	63	4.5
Wasatch	86	63	5.0
Washington	29	63	6.0
Wayne 36	63	6.5	
Weber	43	63	4.5

TABLE NO. 1608.1.2(B)
 REQUIRED SNOW LOADS FOR SELECTED UTAH CITIES AND TOWNS^{1,2}
 The following jurisdictions require design snow load values that differ from the Equation in the Utah Snow Load Study.

County	City	Elevation	Ground Snow Load (psf)	Roof Snow Load (psf) ⁶
Carbon	Price ³	5550	43	30
	All other county locations ⁵	--	--	--
Davis	Fruit Heights ³	4500 – 4850	57	40
Emery	Green River ³	4070	36	25
Garfield	Panguitch ³	6600	43	30
Rich	Woodruff ³	6315	57	40
	Laketown ⁴	6000	57	40
	Garden City ⁵	--	--	--
	Randolph ⁴	6300	57	40
San Juan	Monticello ³	6820	50	35
Summit	Coalville ³	5600	86	60
	Kamas ⁴	6500	114	80
Tooele	Tooele ³	5100	43	30
Utah	Orem ³	4650	43	30
	Pleasant Grove ⁴	5000	43	30
	Provo ⁵	--	--	--
Wasatch	Heber ⁵	--	--	--
Washington	Leeds ³	3460	29	20
	Santa Clara ³	2850	21	15
	St. George ³	2750	21	15
	All other county locations ⁵	--	--	--
Wayne	Loa ³	7080	43	30

¹The IBC requires a minimum live load - See 1607.11.2.

²This table is informational only in that actual site elevations may vary. Table is only valid if site elevation is within 100 feet of the listed elevation.

Otherwise, contact the local Building Official.

³Values adopted from Table VII of the Utah Snow Load Study.

⁴Values based on site-specific study. Contact local Building Official for additional information.

⁵Contact local Building Official.

⁶Based on $C_e=1.0$, $C_t=1.0$ and $I_s=1.0$ "

- (8) A new IBC, Section 1608.1.3, is added as follows: "1608.1.3 Thermal Factor. The value for the thermal factor, C_t , used in calculation of P_f shall be determined from Table 7.3 in ASCE 7. Exception: Except for unheated structures, the value of C_t need not exceed 1.0 when ground snow load, P_g is calculated using Section 1608.1.2 as amended."
- (9) IBC, Section 1608.2, is deleted and replaced with the following: "1608.2 Ground Snow Loads. The ground snow loads to be used in determining the design snow loads for roofs in states other than Utah are given in Figure 1608.2 for the contiguous United States and Table 1608.2 for Alaska. Site-specific case studies shall be made in areas designated CS in figure 1608.2. Ground snow loads for sites at elevations above the limits indicated in Figure 1608.2 and for all sites within the CS areas shall be approved. Ground snow load determination for such sites shall be based on an extreme value statistical analysis of data available in the vicinity of the site using a value with a 2-percent annual probability of being exceeded (50-year mean recurrence interval). Snow loads are zero for Hawaii, except in mountainous regions as approved by the building official."
- (10) A new IBC, Section 1613.1.1, is added as follows: "1613.1.1 ASCE 12.7.2 and 12.14.8.1 of Chapter 12 of ASCE 7 referenced in Section 1613.1, Definition of W , Item 4 is deleted and replaced with the following:
4. Where the flat roof snow load, P_f , exceeds 30 psf, the snow load included in seismic design shall be calculated, in accordance with the following formula: $W_s = (0.20 + 0.025(A-5))P_f$ is greater than or equal to $0.20 P_f$.
WHERE:
 W_s = Weight of snow to be included in seismic calculations
 A = Elevation above sea level at the location of the structure (ft./1,000)
 P_f = Design roof snow load, psf.
- For the purposes of this section, snow load shall be assumed uniform on the roof footprint without including the effects of drift or sliding. The Importance Factor, I , used in calculating P_f may be considered 1.0 for use in the formula for W_s ."
- (11) A new IBC, Section ~~1613.5~~ 1613.7, is added as follows: " ~~1613.5~~ 1613.7 ASCE 7, Section 13.5.6.2.2 paragraph (e) is modified to read as follows: (e) Penetrations shall have a sleeve or adapter through the ceiling tile to allow for free movement of at least 1 inch (25 mm) in all horizontal directions.
Exceptions:
1. Where rigid braces are used to limit lateral deflections.
 2. At fire sprinkler heads in frangible surfaces per NFPA 13."

Amended by Chapter 297, 2013 General Session

15A-3-108. Amendments to Chapters 17 through 19 of IBC.

- (1) A new IBC, Section 1807.1.6.4, is added as follows: "1807.1.6.4 Empirical

concrete foundation design. Group R, Division 3 Occupancies three stories or less in height, and Group U Occupancies, which are constructed in accordance with Section 2308, or with other methods employing repetitive wood-frame construction or repetitive cold-formed steel structural member construction, shall be permitted to have concrete foundations constructed in accordance with Table 1807.1.6.4."

(2) A new IBC, Table 1807.1.6.4 is added as follows:

"TABLE 1807.1.6.4
EMPIRICAL FOUNDATION WALLS (1,7,8)

"TABLE 1807.1.6.4							
EMPIRICAL FOUNDATION WALLS (1,7,8)							
Max. Height	Top Edge Support	Min. Thickness	Vertical Steel (2)	Horizontal Steel (3)	Steel at Openings (4)	Max. Lintel Length	Min. Lintel Length
2'(610 mm)	None	6"	(5)	2- #4 Bars	2- #4 Bars above 1- #4 Bar each side 1- #4 Bar below	2'(610 mm)	2" for each foot of opening width; min. 6"
3'(914 mm)	None	6"	#4@32"	3- #4 Bars	2- #4 Bars above 1- #4 Bar each side 1- #4 Bar below	2'(610 mm)	2" for each foot of opening width; min. 6"
4'(1,219 mm)	None	6"	#4@32"	4- #4 Bars	2- #4 Bars above 1- #4 Bar each side 1- #4 Bar below	3'(914 mm)	2" for each foot of opening width; min. 6"
6'(1,829 mm)	Floor or roof Diaphragm (6)	8"	#4@24"	5- #4 Bars	2- #4 Bars above 1- #4 Bar each side 1- #4 Bar below	6'(1,829 mm)	2" for each foot of opening width; min. 6"
8'(2,438 mm)	Floor or roof Diaphragm (6)	8"	#4@24"	6- #4 Bars	2- #4 Bars above 1- #4 Bar each side 1- #4 Bar below	6'(1,829 mm)	2" for each foot of opening width; min. 6"
9'(2,743 mm)	Floor or roof Diaphragm (6)	8"	#4@16"	7- #4 Bars	2- #4 Bars above 1- #4 Bar each side 1- #4 Bar below	6'(1,829 mm)	2" for each foot of opening width; min. 6"
Over 9'(2,743 mm), Engineering required for each column							
Footnotes:							
(1) Based on 3,000 psi (20.6 Mpa) concrete and 60,000 psi (414 Mpa) reinforcing steel.							
(2) To be placed in the center of the wall, and extended from the footing to within three inches (76 mm) of the top of the wall; dowels of #4 bars to match vertical steel placement shall be provided in the footing, extending 24 inches (610 mm) into the foundation wall.							
(3) One bar shall be located in the top four inches (102 mm), one bar in the bottom four inches (102 mm) and the other bars equally spaced between. Such bar placement satisfies the requirements of Section 1805.9. Corner reinforcing shall be provided so as to lap 24 inches (610 mm).							

(4) Bars shall be placed within two inches (51 mm) of the openings and extend 24 inches (610 mm) beyond the edge of the opening; vertical bars may terminate three inches (76 mm) from the top of the concrete.

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

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

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

(8) Soil backfill shall be soil classification types GW, GP, SW, or SP, per Table 1610.1. Soil shall not be submerged or saturated in groundwater."

(3) ~~In IBC, Section 1904.2, a new exception 1 is added as follows and the current exception is modified to be number 2.~~

~~Exceptions:~~

~~"1. In ACI Table 4.3.1, for Exposure Class F1, change Maximum w/cm from 0.45 to 0.5 and Minimum f_c from 4,500 psi to 3,000 psi."~~

(4) (3) A new IBC, Section ~~1905.1.11~~ 1905.1.9, is added as follows: "~~1905.1.11~~ 1905.1.9 ACI 318,

Table ~~4.2.1~~ 19.3.1.1." Modify ACI 318, Table ~~4.2.1~~ 19.3.1.1 to read as follows: In the portion of the table designated as "Conditions", the following Exposure ~~categories~~ category and classes ~~are is~~ deleted and replaced with the following:

"F0: Concrete elements not exposed to freezing and thawing cycles to include footing and foundation elements that are completely buried in soil.

~~F1: Concrete elements exposed to freezing and thawing cycles and are not likely to be saturated or exposed to deicing chemicals.~~

~~F2: Concrete elements exposed to freezing and thawing cycles and are likely to be saturated, but not exposed to deicing chemicals.~~

~~F3: Concrete elements exposed to freezing and thawing cycles and are likely to be saturated and exposed to deicing chemicals."~~

Amended by Chapter 297, 2013 General Session

15A-3-109. Amendments to Chapters 20 through 22 of IBC.

IBC, Chapters 20 through 22 are not amended.

Enacted by Chapter 14, 2011 General Session

15A-3-110. Amendments to Chapters 23 through 25 of IBC.

(1) A new IBC, Section 2306.1.5, is added as follows: "2306.1.5 Load duration factors. The allowable stress increase of 1.15 for snow load, shown in Table 2.3.2, Frequently Used Load Duration Factors, C_d, of the National Design Specifications, shall not be utilized at elevations above 5,000 feet (1,524 M)."

(2) In IBC, Section ~~2308.6~~ 2308.3.1, a new exception 3 is added as follows: "~~Exception:~~ 3. Where foundation plates or sills are bolted or anchored to the foundation with not less than 1/2 inch (12.7 mm) diameter steel bolts or approved anchors, embedded at least 7 inches (178 mm) into concrete or masonry and spaced not more than 32 inches (816 mm) apart, there shall be a minimum of two bolts or anchor straps per piece located not

less than 4 inches (102 mm) from each end of each piece. A properly sized nut and washer shall be tightened on each bolt to the plate."

- (3) IBC, Section 2506.2.1, is deleted and replaced with the following: "2506.2.1 Other materials. Metal suspension systems for acoustical and lay-in panel ceilings shall conform with ASTM C635 listed in Chapter 35 and Section 13.5.6 of ASCE 7, as amended in Section ~~1613.8~~ 1613.7, for installation in high seismic areas."

Amended by Chapter 297, 2013 General Session

15A-3-111. Amendments to Chapters 26 through 28 of IBC

IBC, Chapters 26 through 28 are not amended.

Enacted by Chapter 14, 2011 General Session

15A-3-112. Amendments to Chapters 29 through 31 of IBC.

- (1) In IBC [P] Table 2902.1 the following changes are made:
- (a) The title for [P] Table 2902.1 is deleted and replaced with the following: "[P] Table 2902.1, Minimum Number of Required Plumbing Facilities ^{a, h}".
 - (b) In the row for "E" occupancy in the field for "OTHER" a new footnote i is added.
 - (c) In the row for "I-4" occupancy in the field for "OTHER" a new footnote i is added.
 - (d) A new footnote h is added as follows: "FOOTNOTE: h. When provided, in public toilet facilities there shall be an equal number of diaper changing facilities in male toilet rooms and female toilet rooms."
 - (e) A new footnote i is added to the table as follows: "FOOTNOTE i: Non-residential child care facilities shall comply with additional sink requirements of Utah Administrative Code R430-100-4."
- (2) A new section IBC, Section [P]2902.6, is added as follows: "[P]2902.6 Toilet Facilities for Workers. Toilet facilities shall be provided for construction workers and such facilities shall be maintained in a sanitary condition. Construction worker toilet facilities of the nonsewer type shall conform to ANSI Z4.3.
- (2) (3) In IBC, Section 3006.5, a new exception is added as follows: "Exception: Hydraulic elevators and roped hydraulic elevators with a rise of 50 feet or less."

Amended by Chapter 297, 2013 General Session

15A-3-113. Amendments to Chapters 32 through 35 of IBC.

- (1) ~~A new section IBC, Section 3401.7, is added as follows: " 3401.7 Parapet bracing, wall anchors, and other appendages. Until June 30, 2014, a building constructed before 1975 shall have parapet bracing, wall anchors, and appendages such as cornices, spires, towers, tanks, signs, statuary, etc. evaluated by a licensed engineer when the building is undergoing structural alterations, which may include structural sheathing replacement of 10% or greater, or other structural repairs. Reroofing or water membrane replacement may not be considered a structural alteration or repair for purposes of this section. Beginning July 1, 2014, a building constructed before 1975 shall have parapet bracing, wall anchors, and appendages such as cornices, spires, towers, tanks, signs, statuary, etc. evaluated by a licensed engineer when the building is undergoing a total reroofing. Parapet bracing, wall anchors, and~~

appendages required by this section shall be evaluated in accordance with 75% of the seismic forces as specified in Section 1613. When allowed by the local building official, alternate methods of equivalent strength as referenced in an approved code under Utah Code, Subsection 15A-1-204(6)(a), will be considered when accompanied by engineer-sealed drawings, details, and calculations. When found to be deficient because of design or deteriorated condition, the engineer's recommendations to anchor, brace, reinforce, or remove the deficient feature shall be implemented.

Exceptions:

1. ~~Group R-3 and U occupancies.~~
2. ~~Unreinforced masonry parapets need not be braced according to the above stated provisions provided that the maximum height of an unreinforced masonry parapet above the level of the diaphragm tension anchors or above the parapet braces shall not exceed one and one-half times the thickness of the parapet wall. The parapet height may be a maximum of two and one-half times its thickness in other than Seismic Design Categories D, E, or F."~~

(2) ~~IBC, Section 3408.4, is deleted and replaced with the following: "3408.4 Seismic. When a change in occupancy results in a structure being reclassified to a higher Risk Category (as defined in Table 1604.5), or when such change of occupancy results in a design occupant load increase of 100% or more, the structure shall conform to the seismic requirements for a new structure.~~

Exceptions:

1. ~~Specific seismic detailing requirements of this code or ASCE 7 for a new structure shall not be required to be met where it can be shown that the level of performance and seismic safety is equivalent to that of a new structure. A demonstration of equivalence analysis shall consider the regularity, overstrength, redundancy, and ductility of the structure. Alternatively, the building official may allow the structure to be upgraded in accordance with referenced sections as found in an approved code under Utah Code, Subsection 15A-1-204(6)(a).~~
2. ~~When a change of use results in a structure being reclassified from Risk Category I or II to Risk Category III and the structure is located in a seismic map area where SDS is less than 0.33, compliance with the seismic requirements of this code and ASCE 7 are not required.~~
3. ~~Where design occupant load increase is less than 25 occupants and the Risk Category does not change."~~

(3) (1) In IBC, Chapter 35, the referenced standard ICCA117.1-09, Section 606.2, Exception 1 is modified to include the following sentence at the end of the exception: "The minimum clear floor space shall be centered on the sink assembly."

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

"Number	Title	Referenced in code section number
2034-2008	Standard of Single- and Multiple-station Carbon Monoxide Alarms	907.9"

Amended by Chapter 297, 2013 General Session

15A-3-201. General provision.

- (1) The amendments in this part are adopted as amendments to the IRC to be applicable statewide.
- (2) The statewide amendments to the following which may be applied to detached one- and two-family dwellings and multiple single-family dwellings shall be applicable to the corresponding provisions of the IRC:
 - (a) IBC under Part 1, Statewide Amendments to International Building Code;
 - (b) IPC under Part 3, Statewide Amendments to International Plumbing Code;
 - (c) IMC under Part 4, Statewide Amendments to International Mechanical Code;
 - (d) IFGC under Part 5, Statewide Amendments to International Fuel Gas Code;
 - (e) NEC under Part 6, Statewide Amendments to National Electrical Code; and
 - (f) IECC under Part 7, Statewide Amendments to International Energy Conservation Code.

Amended by Chapter 189, 2014 General Session

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

- (1) In IRC, Section R102, a new Section R102.7.2 is added as follows:

"R102.7.2 Physical change for bedroom window egress in legal nonconforming rental housing use. A structure classified as a legal nonconforming rental housing use, whose egress bedroom window is smaller than required by this code, is not required to undergo a physical change to conform to this code if the change would compromise the structural integrity of the building or could not be completed in accordance with other applicable requirements of this code, including setback and window well requirements."
- (2) In IRC, Section 109:
 - (a) A new IRC, Section 109.1.5, is added as follows: "R109.1.5 Weather-resistant exterior wall envelope inspections. An inspection shall be made of the weather-resistant exterior wall envelope as required by Section R703.1 and flashings as required by Section R703.8 to prevent water from entering the weather-resistive barrier."
 - (b) The remaining sections are renumbered as follows: R109.1.6 Other inspections; R109.1.6.1 Fire- and smoke-resistance-rated construction inspection; R109.1.6.2 Reinforced masonry, insulating concrete form (ICF) and conventionally formed concrete wall inspection; and R109.1.7 Final inspection.
- (3) IRC, Section R114.1, is deleted and replaced with the following: "R114.1 Notice to owner. Upon notice from the building official that work on any building or structure is being prosecuted contrary to the provisions of this code or other pertinent laws or ordinances or in an unsafe and dangerous manner, such work shall be immediately stopped. The stop work order shall be in writing and shall be given to the owner of the property involved, or to the owner's agent or to the person doing the work; and shall state the conditions under which work will be permitted to resume."

- (4) In IRC, Section R202, the following definition is added: "CERTIFIED BACKFLOW PREVENTER ASSEMBLY TESTER: A person who has shown competence to test Backflow prevention assemblies to the satisfaction of the authority having jurisdiction under Utah Code, Subsection 19-4-104(4)."
- (5) In IRC, Section R202, the definition for "CONDITIONED SPACE" is modified by deleting the words at the end of the sentence "being heated or cooled by any equipment or appliance" and replacing them with the following: "enclosed within the building thermal envelope that is directly heated or cooled, or indirectly heated or cooled by any of the following means:
1. Openings directly into an adjacent conditioned space.
 2. An un-insulated floor, ceiling or wall adjacent to a conditioned space.
 3. Un-insulated duct, piping or other heat or cooling source within the space."
- (6) In IRC, Section R202, the definition of "Cross Connection" is deleted and replaced with the following: "CROSS CONNECTION. Any physical connection or potential connection or arrangement between two otherwise separate piping systems, one of which contains potable water and the other either water of unknown or questionable safety or steam, gas, or chemical, whereby there exists the possibility for flow from one system to the other, with the direction of flow depending on the pressure differential between the two systems (see "Backflow, Water Distribution")."
- (7) In IRC, Section 202, in the definition for gray water a comma is inserted after the word "washers"; the word "and" is deleted; and the following is added to the end: "and clear water wastes which have a pH of 6.0 to 9.0; are non-flammable; non-combustible; without objectionable odors; non-highly pigmented; and will not interfere with the operation of the sewer treatment facility."
- (8) In IRC, Section R202, the definition of "Potable Water" is deleted and replaced with the following: "POTABLE WATER. Water free from impurities present in amounts sufficient to cause disease or harmful physiological effects and conforming to the Utah Code, Title 19, Chapters 4, Safe Drinking Water Act, and 5, Water Quality Act, and the regulations of the public health authority having jurisdiction."
- (9) IRC, Figure R301.2(5), is deleted and replaced with Table R301.2(5a) and Table R301.2(5b) as follows:

"TABLE NO. R301.2(5a)
STATE OF UTAH - REGIONAL SNOW LOAD FACTORS

COUNTY	P _o	S	A _o
Beaver	43	63	6.2
Box Elder	43	63	5.2
Cache	50	63	4.5
Carbon	43	63	5.2
Daggett	43	63	6.5
Davis	43	63	4.5
Duchesne	43	63	6.5
Emery	43	63	6.0
Garfield	43	63	6.0
Grand	36	63	6.5
Iron	43	63	5.8

Juab	43	63	5.2
Kane	36	63	5.7
Millard	43	63	5.3
Morgan	57	63	4.5
Piute	43	63	6.2
Rich	57	63	4.1
Salt Lake	43	63	4.5
San Juan	43	63	6.5
Sanpete	43	63	5.2
Sevier	43	63	6.0
Summit	86	63	5.0
Tooele	43	63	4.5
Uintah	43	63	7.0
Utah	43	63	4.5
Wasatch	86	63	5.0
Washington	29	63	6.0
Wayne	36	63	6.5
Weber	43	63	4.5

TABLE NO. R301.2(5b)

REQUIRED SNOW LOADS FOR SELECTED UTAH CITIES AND TOWNS^{1,2}

The following jurisdictions require design snow load values that differ from the Equation in the Utah Snow Load Study.

County	City	Elevation	Ground Snow Load (psf)	Roof Snow Load (psf) ⁶
Davis	Fruit Heights ³	4500 – 4850	57	40
Emery	Green River ³	4070	36	25
Garfield	Panguitch ³	6600	43	30
Rich	Woodruff ³	6315	57	40
	Laketown ⁴	6000	57	40
	Garden City ⁵	--	--	--
	Randolph ⁴	6300	57	40
San Juan	Monticello ³	6820	50	35
Summit	Coalville ³	5600	86	60
	Kamas ⁴	6500	114	80
Tooele	Tooele ³	5100	43	30
Utah	Orem ³	4650	43	30
	Pleasant Grove ⁴	5000	43	30
	Provo ⁵	--	--	--
Wasatch	Heber ⁵	--	--	--

Washington	Leeds ³	3460	29	20
	Santa Clara ³	2850	21	15
	St. George ³	2750	21	15
	All other county locations ⁵	--	--	--
Wayne	Loa ³	7080	43	30

- ¹The IRC requires a minimum live load – See R301.6
- ²This table is informational only in that actual site elevations may vary. Table is only valid if site elevation is within 100 feet of the listed elevation. Otherwise, contact the local Building Official.
- ³Values adopted from Table VII of the Utah Snow Load Study
- ⁴Values based on site-specific study. Contact local Building Official for additional information.
- ⁵Contact local Building Official.
- ⁶Based on $C_e = 1.0$, $C_t = 1.0$ and $I_s = 1.0$ "

- (10) IRC, Section R301.6, is deleted and replaced with the following: "R301.6 Utah Snow Loads. The snow loads specified in Table R301.2(5b) shall be used for the jurisdictions identified in that table. Otherwise, the ground snow load, P_g , to be used in the determination of design snow loads for buildings and other structures shall be determined by using the following formula: $P_g = (P_o + S_2(A - A_o)^2)^{0.5}$ for A greater than A_o , and $P_g = P_o$ for A less than or equal to A_o .

WHERE:

- P_g = Ground snow load at a given elevation (psf);
- P_o = Base ground snow load (psf) from Table No. R301.2(5a);
- S = Change in ground snow load with elevation (psf/100 ft.) From Table No. R301.2(5a);
- A = Elevation above sea level at the site (ft./1,000);
- A_o = Base ground snow elevation from Table R301.2(5a) (ft./1,000).

The building official may round the roof snow load to the nearest 5 psf. The ground snow load, P_g , may be adjusted by the building official when a licensed engineer or architect submits data substantiating the adjustments.

Where the minimum roof live load in accordance with Table R301.6 is greater than the design roof snow load, such roof live load shall be used for design, however, it shall not be reduced to a load lower than the design roof snow load. Drifting need not be considered for roof snow loads less than 20 psf."

- (11) In IRC, Section R302.2, the words "Exception: A" are deleted and replaced with the following:

"Exceptions:

1. ~~A common 2-hour fire-resistance-rated wall is permitted for townhouses if such walls do not contain plumbing or mechanical equipment, ducts or vents in the cavity of the common wall. Electrical installation shall be installed in accordance with Chapters 34 through 43. Penetrations of electrical outlet boxes shall be in accordance with Section R302.4.~~
2. ~~In buildings equipped with an automatic residential fire sprinkler system,~~
a"

- (12) — In IRC, Section R302.2.4, a new exception 6 is added as follows: "6. Townhouses separated by a common 2-hour fire-resistance-rated wall as provided in Section R302.2."
- (13) (11) In IRC, Section R302.5.1, the words "self-closing device" are deleted and replaced with "self-latching hardware".
- (14) (12) In IRC, Section R303.4, the number "5" is changed to "3" in the first sentence.
- (15) (13) IRC, Sections R311.7.4~~5~~ through R311.7.4~~5~~.3, are deleted and replaced with the following:
 "R311.7.4 Stair treads and risers. R311.7.4.1 Riser height. The maximum riser height shall be 8 inches (203 mm). The riser shall be measured vertically between leading edges of the adjacent treads. The greatest riser height within any flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm).
 R311.7.4.2 Tread depth. The minimum tread depth shall be 9 inches (228 mm).
 The tread depth shall be measured horizontally between the vertical planes of the foremost projection of adjacent treads and at a right angle to the tread's leading edge. The greatest tread depth within any flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm). Winder treads shall have a minimum tread depth of 10 inches (254 mm) measured as above at a point 12 inches (305 mm) from the side where the treads are narrower. Winder treads shall have a minimum tread depth of 6 inches (152 mm) at any point. Within any flight of stairs, the greatest winder tread depth at the 12-inch (305 mm) walk line shall not exceed the smallest by more than 3/8 inch (9.5 mm).
 R311.7.4.3 Profile. The radius of curvature at the leading edge of the tread shall be no greater than 9/16 inch (14.3 mm). A nosing not less than 3/4 inch (19 mm) but not more than 1 1/4 inches (32 mm) shall be provided on stairways with solid risers. The greatest nosing projection shall not exceed the smallest nosing projection by more than 3/8 inch (9.5 mm) between two stories, including the nosing at the level of floors and landings. Beveling of nosing shall not exceed 1/2 inch (12.7 mm). Risers shall be vertical or sloped from the underside of the leading edge of the tread above at an angle not more than 30 degrees (0.51 rad) from the vertical. Open risers are permitted, provided that the opening between treads does not permit the passage of a 4-inch diameter (102 mm) sphere.
 Exceptions.
 1. A nosing is not required where the tread depth is a minimum of 10 inches (254 mm).
 2. The opening between adjacent treads is not limited on stairs with a total rise of 30 inches (762 mm) or less."
- (16) — In IRC, Section R312.1.2, the words "adjacent fixed seating" are deleted.
- (17) (14) IRC, Section R312.2, is deleted.
- (18) (15) IRC, Sections R313.1 through R313.2.1, are deleted and replaced with the following: "R313.1 Design and installation. When installed, automatic residential fire sprinkler systems for townhouses or one- and two-family dwellings shall be designed and installed in accordance with Section P2904 or NFPA13D."
- (19) (16) A new IRC, Section R315.5, is added as follows: "R315.5 Power source. Carbon monoxide alarms shall receive their primary power from the building wiring when such wiring is served from a commercial source, and when primary power is

interrupted, shall receive power from a battery. Wiring shall be permanent and without a disconnecting switch other than those required for over-current protection. Exceptions:

1. Carbon monoxide alarms shall be permitted to be battery operated when installed in buildings without commercial power.
2. Hard wiring of carbon monoxide alarms in existing areas shall not be required where the alterations or repairs do not result in the removal of interior wall or ceiling finishes exposing the structure, unless there is an attic, crawl space or basement available which could provide access for hard wiring, without the removal of interior finishes."

~~(20)~~ (17) A new IRC, Section R315.6, is added as follows: "R315.6 Interconnection. Where more than one carbon monoxide alarm is required to be installed within an individual dwelling unit in accordance with Section R315.1, the alarm devices shall be interconnected in such a manner that the actuation of one alarm will activate all of the alarms in the individual unit. Physical interconnection of smoke alarms shall not be required where listed wireless alarms are installed and all alarms sound upon activation of one alarm.

Exception: Interconnection of carbon monoxide alarms in existing areas shall not be required where alterations or repairs do not result in removal of interior wall or ceiling finishes exposing the structure, unless there is an attic, crawl space or basement available which could provide access for interconnection without the removal of interior finishes."

~~(21)~~ (18) In IRC, Section R403.1.6, a new Exception 4~~3~~ is added as follows: "4~~3~~. When anchor bolt spacing does not exceed 32 inches (813 mm) apart, anchor bolts may be placed with a minimum of two bolts per plate section located not less than 4 inches (102 mm) from each end of each plate section at interior bearing walls, interior braced wall lines, and at all exterior walls."

~~(22)~~ (19) In IRC, Section R403.1.6.1, a new exception is added at the end of Item 2 and Item 3 as follows: "Exception: When anchor bolt spacing does not exceed 32 inches (816 mm) apart, anchor bolts may be placed with a minimum of two bolts per plate section located not less than 4 inches (102 mm) from each end of each plate section at interior bearing walls, interior braced wall lines, and at all exterior walls."

~~(23)~~ (20) In IRC, Section R404.1, a new exception is added as follows: "Exception: As an alternative to complying with Sections R404.1 through R404.1.5.3, concrete and masonry foundation walls may be designed in accordance with IBC Sections 1807.1.5 and 1807.1.6 as amended in Section 1807.1.6.4 and Table 1807.1.6.4 under these rules."

~~(24)~~ — IRC, Section R501.3, is deleted.
Amended by Chapter 297, 2013 General Session

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

- (1) In IRC, Section N1101.8 (R103.2), all words after the words "herein governed." are deleted and replaced with the following: "Construction documents include all documentation required to be submitted in order to issue a building permit."
- (2) In IRC, Section N1101.14 (R303.3), all wording after the first sentence is deleted.

- (3) In IRC, Table N1102.1.1 (R402.1.1) and Table N1102.1.3 (R402.1.3), the rows for "climate zone 3", "climate zone 5 and Marine 4", and "climate zone 6" are deleted and replaced and a new footnote j is added as follows:

"TABLE N1102.1.1 (R402.1.1)
INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT^a

"TABLE N1102.1.1 (R402.1.1)										
INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT ^a										
CLIMATE ZONE	FENESTRATION U-FACTOR ^b	SKYLIGHT U-FACTOR ^b	GLAZED FENESTRATION SHGC ^{b,e}	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE ^{ij}	FLOOR R-VALUE	BASEMENT ^c WALL R-VALUE	SLAB ^d R-VALUE & DEPTH	CRAWL SPACE ^c WALL R-VALUE
3	0.65	0.65	0.40	30	15	5	19	0	0	5/13
5 and Marine 4	0.35	0.60	NR	38	19 or 13 + 5h	13	30 g	10/13	10, 2 ft	10/13
6	0.35	0.60	NR	49	19 or 13 + 5h	15	30 g	10/13	10, 4 ft	10/13

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

TABLE N1102.1.3 (R402.1.3)								
EQUIVALENT U-FACTORS ^a								
CLIMATE ZONE	FENESTRATION U-FACTOR	SKYLIGHT U-FACTOR	CEILING U-FACTOR	FRAME WALL U-FACTOR	MASS WALL U-FACTOR ^b	FLOOR U-FACTOR	BASEMENT WALL U-FACTOR	CRAWL SPACE WALL U-FACTOR
3	0.65	0.65	0.035	0.082	0.141	0.047	0.360	0.136
5 and Marine 4	0.35	0.60	0.030	0.060	0.082	0.033	0.059	0.065
6	0.35	0.60	0.026	0.060	0.060	0.033	0.059	0.065

- (4) In IRC, Section N1102.2.1 (R402.2.1), the last sentence is deleted.
 (5) In IRC, Section N1102.2.2 (R402.2.2), the last sentence is deleted.
 (6) In IRC, Section N1102.3.3 (R402.3.3), the last sentence is deleted.
 (7) In IRC, Section N1102.3.4 (R402.3.4), the last sentence is deleted.
 (8) In IRC, Section N1102.4.1 (R402.4.1), in the first sentence, the word "and" is deleted and replaced with the word "or".

- (9) In IRC, Section N1102.4.1.1 (R402.4.1.1), the last sentence is deleted and replaced with the following: "Where allowed by the building official, the builder may certify compliance to components criteria for items which may not be inspected during regularly scheduled inspections."
- (10) In IRC, Section N1102.4.1.2 (R402.4.1.2), the following changes are made:
- (a) In the first sentence, the words "in Zones 1 and 2, and 3 air changes per hour in Zone 3 through 8" are deleted.
 - (b) In the third sentence, the words "Where required by the building official," and the word "third" are deleted.
 - (c) The following sentence is inserted after the third sentence: "The following parties shall be approved to conduct testing: Parties certified by BPI or RESNET, or licensed contractors who have completed training provided by Blower Door Test equipment manufacturers or other comparable training."
- (11) In IRC, Section N1102.4.4 (R402.4.4), the last sentence is deleted.
- (12) In IRC, Section N1103.2.2 (R403.2.2), the requirements for total leakage testing are deleted and replaced with the following:
- 1. Postconstruction test: Total leakage shall be less than or equal to 10 cfm (283 L/min) per 100 square feet (9.29 m²) of conditioned floor space when tested at a pressure differential of 0.1 inches w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. All register boots shall be taped or otherwise sealed during the test.
 - 2. Rough-in test: Total leakage shall be less than or equal to 10 cfm (283 L/min) per 100 square feet (9.29 m²) of conditioned floor area when tested at a pressure differential of at least 0.1 inches w.g. (25 Pa) across the system, including the manufacturer's air handler enclosure. All registers shall be taped or otherwise sealed during the test. If the air handler is not installed at the time of the test, total leakage shall be less than or equal to 7.5 cfm (212 L/min) per 100 square feet (9.29 m²) of conditioned floor area."
- (13) In IRC, Section N1103.2.2 (R403.2.2), the exception for total leakage testing is deleted and replaced with the following: "Exception: The total leakage test is not required for systems with all air handlers and at least 50% of all ducts (measured by length) located entirely within the building thermal envelope."
- (14) In IRC, Section N1103.2.3 (R403.2.3), the words "or plenums" are deleted.
- (15) In IRC, Section N1103.4.2 (R403.4.2), the sentences f or "3.", "9.", and the last sentence are deleted.
- (16) In IRC, Section N1103.5 (R403.5), the first sentence is deleted.
- (17) IRC, Section N1104.1 (R404.1) and the exception are deleted, and N1104.1.1 (R404.1.1) becomes N1104.1 (R404.1).
- (18) In IRC, Table N1105.5.2(1) (R405.5.2(1)), the following changes are made under the column STANDARD REFERENCE DESIGN:
- (a) In the row "Air exchange rate", the words "in Zones 1 and 2, and 3 air changes per hour in Zones 3 through 8" are deleted.
 - (b) In the row "Heating systems_{f, g}", the standard reference design is deleted and replaced with the following:

"Fuel Type: same as proposed design Efficiencies:
Electric: air source heat pump with prevailing federal minimum efficiencies
Nonelectric furnaces: natural gas furnace with prevailing federal minimum efficiencies

Nonelectric boilers: natural gas boiler with prevailing federal minimum efficiencies

Capacity: sized in accordance with Section N1103.6"

- (c) In the row "Cooling systems_{f, h}" the words "As proposed" are deleted and replaced with the following:
"Fuel Type: Electric
Efficiency: in accordance with prevailing federal minimum standards"
- (d) In the row "Service water heating_{f, g, h, i}", the words "As proposed" are deleted and replaced with the following:
"Fuel Type: same as proposed design
Efficiency: in accordance with prevailing federal minimum standards
Tank Temperature: 120_oF"
- (e) In the row "Thermal distribution systems" the word "none" is deleted and replaced with the following: "Thermal distribution system efficiency (DSE) of .080 shall be applied to both the heating and cooling system efficiencies."
- (19) In Table N1105.5.2(2) (R405.5.2(2)), the number "0.80" is inserted under "Forced air systems" for "Distribution system components located in unconditioned space".
- (20) In IRC, Section M1307.2, the words "In Seismic Design Categories D1 and D2" are deleted.
- (21) The RESCheck Software adopted by the United States Department of Energy and modified to meet the requirements of this section shall be used to verify compliance with this section. The software shall address the Total UA alternative approach and account for Equipment Efficiency Trade-offs when applicable per the standard reference design as amended.
- (22) IRC, Section ~~M1411.6~~ M1411.8, is deleted.

Amended by Chapter 279, 2013 General Session

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

- (1) In IRC, Table M1601.1.1(2), in the section "Round ducts and enclosed rectangular ducts", the word "enclosed" is deleted; the words "14 inches or less" are deleted and replaced with "over 8 inches but less than 15 inches"; the wording "8 under equivalent gage no., and "0.0159" under aluminum minimum thickness (in.), are added; and the section "Exposed rectangular ducts" is deleted.
- (2) In IRC, Section M1901.3, the word "only" is inserted between the words "labeled" and "for".
- (3) A new IRC, Section G2401.2, is added as follows: "G2401.2 Meter Protection. Fuel gas services shall be in an approved location and/or provided with structures designed to protect the fuel gas meter and surrounding piping from physical damage, including falling, moving, or migrating ice and snow. If an added structure is used, it must provide access for service and comply with the IBC or the IRC."

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

- (1) A new IRC, Section P2602.3, is added as follows: "P2602.3 Individual water supply. Where a potable public water supply is not available, individual sources of potable water supply shall be utilized, provided that the source has been developed in accordance with Utah Code, Sections 73-3-1 and 73-3-25, as administered by the Department of Natural Resources, Division of Water Rights. In addition, the quality of the water shall be approved by the local health department having jurisdiction."
- (2) A new IRC, Section P2602.4, is added as follows: "P2602.4 Sewer required. Every building in which plumbing fixtures are installed and all premises having drainage piping shall be connected to a public sewer where the sewer is accessible and is within 300 feet of the property line in accordance with Utah Code, Section 10-8-38; or an approved private sewage disposal system in accordance with Utah Administrative Code, Chapter 4, Rule R317, as administered by the Department of Environmental Quality, Division of Water Quality."
- (3) In IRC, Section P2801.78, all words in the first sentence up to the word "water" are deleted.
- (4) A new IRC, Section P2902.1.1, is added as follows: "P2902.1.1 Backflow assembly testing. The premise owner or his designee shall have backflow prevention assemblies operation tested at the time of installation, repair, and relocation and at least on an annual basis thereafter, or more frequently as required by the authority having jurisdiction. Testing shall be performed by a Certified Backflow Preventer Assembly Tester. The assemblies that are subject to this paragraph are the Spill Resistant Vacuum Breaker, the Pressure Vacuum Breaker Assembly, the Double Check Backflow Prevention Assembly, the Double Check Detector Assembly Backflow Preventer, the Reduced Pressure Principle Backflow Preventer, and Reduced Pressure Detector Assembly."
- (5) ~~IRC, Table P2902.3, is deleted and replaced with the following:~~

"DEVICE	DEGREE OF HAZARD ^a	APPLICATION ^b	APPLICABLE STANDARDS
BACKFLOW PREVENTION ASSEMBLIES:			
Double check backflow prevention assembly and double check fire protection backflow prevention assembly	Low hazard	Backpressure or backsiphonage Sizes 3/8" - 16"	ASSE 1015, AWWA C510, CSA B64.5, CSA B64.5.1
Double check detector fire protection backflow prevention	Low hazard	Backpressure or backsiphonage Sizes 3/8" - 16"	ASSE 1048

assemblies			
Pressure vacuum breaker assembly	High or low hazard	Backsiphonage only Sizes 1/2" - 2"	ASSE 1020, CSA B64.1.2
Reduced pressure principle backflow prevention assembly and reduced pressure principle fire protection backflow assembly	High or low hazard	Backpressure or backsiphonage Sizes 3/8" - 16"	ASSE 1013, AWWA C511, CSA B64.4, CSAB64.4.1
Reduced pressure detector fire protection backflow prevention assemblies	High or low hazard	Backpressure or backsiphonage (Fire Sprinkler Systems)	ASSE 1047
Spill resistant vacuum breaker assembly	High or low hazard	Backsiphonage only Sizes 1/2" - 2"	ASSE 1056

BACKFLOW PREVENTER PLUMBING DEVICES:

Antisiphon type fill valves for gravity water closet flush tanks	High hazard	Backsiphonage only	ASSE 1002, CSA B125.3
Backflow preventer for carbonated beverage machines	Low hazard	Backpressure or backsiphonage Sizes 1/4" - 3/8"	ASSE 1022
Backflow preventer with intermediate atmospheric vents	Low hazard	Backpressure or backsiphonage Sizes 1/4" - 3/8"	ASSE 1012, CSA B64.3
Dual check valve type backflow preventers	Low hazard	Backpressure or backsiphonage Sizes 1/4" - 1"	ASSE 1024, CSA B64.6

Hose connection backflow preventer	High or low hazard	Backsiphonage only Sizes 1/2"–1"	ASSE 1052, CSA B64.2, B64.2.1
Hose connection vacuum breaker	High or low hazard	Backsiphonage only Sizes 1/2", 3/4", 1"	ASSE 1011, CAN/CSA B64.1.1
Atmospheric type vacuum breaker	High or low hazard	Backsiphonage only Sizes 1/2"–4"	ASSE 1001, CSA B64.1.1
Vacuum breaker wall hydrants, frost resistant, automatic draining type	High or low hazard	Backsiphonage only Sizes 3/4", 1"	ASSE 1019, CSA B64.2.2
OTHER MEANS or METHODS:			
Air gap	High or low hazard	Backsiphonage only	ASME A112.1.2
Air gap fittings for use with plumbing fixtures, appliances and appurtenances	High or low hazard	Backpressure or backsiphonage	ASME A112.1.3
For SI: 1 inch = 25.4 mm			
a. Low Hazard – See Pollution (Section 202), High Hazard – See Contamination (Section 202)			
b. See Backpressure (Section 202), See Backpressure, low head (Section 202), See Backsiphonage Section 202)			
Installation Guidelines: The above specialty devices shall be installed in accordance with their listing and the manufacturer's instructions and the specific provisions of this chapter."			

- (5) In IRC, Section P2902.1, the following subsections are added as follows:
"P2902.1.1 General Installation Criteria. Assemblies shall not be installed more than five feet above the floor unless a permanent platform is installed. The assembly owner, where necessary, shall provide devices or structures to facilitate testing, repair, and/or maintenance and to insure the safety of the backflow technician.
P2902.1.2 Specific installation criteria:

P2902.1.2.1 Reduced Pressure Principle Backflow Prevention Assembly. The reduced pressure principle backflow prevention assembly shall be installed as follows:

- a. Shall NOT be installed in a pit.
- b. The relief valve of the reduced pressure principle backflow prevention assembly shall not be directly connected to any waste disposal line, including sanitary sewer, storm drains, or vents.
- c. The assembly shall be installed in a horizontal position only unless listed or approved for vertical installation in accordance with Section 303.4
- d. The bottom of each RP assembly shall be installed a minimum of 12 inches above the floor or ground.
- e. The body of the RP assembly shall be a minimum of 12 inches from any walls, ceiling, or obstacle and shall be readily accessible for testing, repair and maintenance.

P2902.1.2.2 Double Check Valve Backflow Prevention Assembly. Double check valve backflow prevention assembly shall be installed as follows:

- a. Shall be installed in a horizontal position only unless listed or approved for vertical installation.
- b. The bottom of the DC assembly shall be a minimum of 12 inches above the ground or floor. The body of the DC assembly shall be a minimum of 12 inches from any walls, ceilings, or obstacle and shall be readily accessible for testing, repair and maintenance.
- c. If installed in a pit, the DC assembly shall be installed with a minimum of 12 inches of clearance between all sides of the vault including the floor and roof or ceiling with adequate room for testing and maintenance.

P2902.1.2.3 Pressure Vacuum Break Assembly and Spill Resistant Pressure Vacuum Breaker Assembly. Pressure vacuum break assemblies and spill resistant pressure vacuum breaker assemblies shall be installed as follows:

- 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 piping and the highest point of use.
- c. The PVB or SVB shall be a minimum of 12 inches from walls, ceiling, or obstacle and shall be readily accessible for testing, repair and maintenance.
- d. Shall not be installed below ground or in a vault or pit.
- e. Shall be installed in a vertical position only."

(6) IRC, Section P2910.5, is deleted and replaced with the following: "P2910.5 Potable water connections. When a potable system is connected to a nonpotable water system, the potable water system shall be protected against backflow by a reduced pressure backflow prevention assembly or an air gap installed in accordance with Section 2901."

(7) IRC, Section P2910.9.5, is deleted and replaced with the following: " Makeup water. Where an uninterrupted nonpotable water supply is required for the intended application, potable or reclaimed water shall be provided as a source of makeup water for

the storage tank. The make-up water supply shall be protected against backflow by means of an air gap not less than 4 inches (102 mm) above the overflow or by a reduced pressure backflow prevention assembly installed in accordance with Section 2902."

- (8) In IRC, Section P2911.12.4, the following words are deleted: "and backwater vales".
- (9) In IRC, Section P2912.15.6, the following words are deleted: "and backwater vales".
- (9) In IRC, Section P2913.4.2, the following words are deleted: "and backwater valves".
- (10) IRC, Section P3009 is deleted and replaced with the following: "P3009 Connected to nonpotable water from on-site water reuse systems. Nonpotable systems utilized for subsurface irrigation for single family residences shall comply with the requirements of R317-401, UAC, Gray Water Systems.
- (6) ~~In IRC, Section P3009.1, all words after the word "urinals" are deleted and the following sentence is added at the end: "Gray water recycling systems for subsurface landscape irrigation shall conform with UAC R317-401 Gray Water Systems."~~
- (7) ~~A new IRC, Section P3009.1.1, is added as follows: "P3009.1.1 Recording. The existence of a gray water recycling system shall be recorded on the deed of ownership for that property. The certificate of occupancy shall not be issued until the documentation of the recording required under this section is completed by the owner."~~
- (8) ~~In IRC, Section P3009.2, the words "and systems for subsurface landscape irrigation shall comply with Section P3009.14" are deleted.~~
- (9) ~~IRC, Section P3009.6, is deleted and replaced with the following: "P3009.6 Potable water connections. The potable water supply to any building utilizing a gray water recycling system shall be protected against backflow by a reduced pressure backflow prevention assembly installed in accordance with Section P2902."~~
- (10) ~~In IRC, Section P3009.7, the following is added at the end of the sentence: "and other clear water wastes which have a pH of 6.0 to 9.0; are non-flammable, non-combustible; without objectionable odor; non-highly pigmented; and will not interfere with the operation of the sewer treatment facility."~~
- (11) In IRC, Section P3009.13.3, in the second sentence, the following is added between the words "backflow" and "in": "by a reduced pressure backflow prevention assembly or an air gap installed".
- (12) IRC, Section P3009.14, is deleted and replaced with the following: "Section P3009.14 LANDSCAPE IRRIGATION SYSTEMS. Gray water recycling systems utilized for subsurface irrigation for single family residences shall comply with the requirements of UAC R317-401, Gray Water Systems. Gray water recycling systems utilized for subsurface irrigation for other occupancies shall comply with UAC R317-3, Design Requirements for Wastewater Collection, Treatment and Disposal and UAC R317-4, Onsite Waterwaste Systems."
- (13) In IRC, Section P3103.6, the following sentence is added at the end of the paragraph: "Vents extending through the wall shall terminate not less than 12 inches from the wall with an elbow pointing downward."
- (14) In IRC, Section P3104.4, the following sentence is added at the end of the paragraph: "Horizontal dry vents below the flood level rim shall be permitted for floor drain and floor sink installations when installed below grade in accordance with Chapter 30, and Sections P3104.2 and P3104.3. A wall cleanout shall be provided in the vertical vent."

Amended by Chapter 297, 2013 General Session

15A-3-206. Amendments to Chapters 36 and 44 of IRC.

- (1) In IRC Section E3901.9 the following exception is added: "Exception: Receptacles or other outlets adjacent to the exterior walls of the garage or outlets in storage rooms with entry from the garage shall be permitted to be connected to the garage branch circuit."
- (4) (2) In IRC, Section E3902.4216, the following words are deleted: "family rooms, dining rooms, living rooms, parlors, libraries, dens, sunrooms, recreation rooms, closets, hallways, and similar rooms or areas.
Exception: This section does not apply for a simple move or an extension of a branch circuit or an outlet which does not significantly increase the existing electrical load. This exception does not include changes involving remodeling or additions to a residence."
- (2) (3) IRC, Chapter 44, is amended by adding the following reference standard:

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

Amended by Chapter 297, 2013 General Session

15A-3-301. General provision.

The amendments in this part are adopted as amendments to the IPC to be applicable statewide.

Enacted by Chapter 14, 2011 General Session

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

- (1) A new IPC, Section ~~401.2~~ 101.2.1, is added as follows: "For clarification, the International Private Sewage Disposal Code is not part of the plumbing code even though it is in the same printed volume."
- (2) In IPC, Section 202, the definition for "Backflow Backpressure, Low Head" is deleted.
- (3) In IPC, Section 202, the following definition is added: "Certified Backflow Preventer Assembly Tester. A person who has shown competence to test Backflow prevention assemblies to the satisfaction of the authority having jurisdiction under Utah Code, Subsection 19-4-104(4)."
- (4) In IPC, Section 202, the following definition is added: "Contamination (High Hazard). An impairment of the quality of the potable water that creates an actual hazard to the public health through poisoning or through the spread of disease by sewage, industrial fluids or waste."
- (5) In IPC, Section 202, the definition for "Cross Connection" is deleted and

replaced with the following: "Cross Connection. Any physical connection or potential connection or arrangement between two otherwise separate piping systems, one of which contains potable water and the other either water of unknown or questionable safety or steam, gas, or chemical, whereby there exists the possibility for flow from one system to the other, with the direction of flow depending on the pressure differential between the two systems (see "Backflow")."

- (6) In IPC, Section 202, the following definition is added: "Deep Seal Trap. A manufactured or field fabricated trap with a liquid seal of 4" or larger."
- (7) In IPC, Section 202, the definition for "Essentially Nontoxic Transfer Fluid" is deleted and replaced with the following: "Essentially Nontoxic Transfer Fluid. Fluids including propylene glycol or mineral oil."
- (8) In IPC, Section 202, the definition for "Essentially Toxic Transfer Fluid" is deleted and replaced with the following: "Essentially Toxic Transfer Fluid. Soil, waste or gray water and fluids not defined by this code as an essentially nontoxic transfer fluid."
- (7) ~~In IPC, Section 202, in the definition for gray water a comma is inserted after the word "washers"; the word "and" is deleted; and the following is added to the end: "and clear water wastes which have a pH of 6.0 to 9.0; are non-flammable; non-combustible; without objectionable odors; non-highly pigmented; and will not interfere with the operation of the sewer treatment facility."~~
- (8) (9) In IPC, Section 202, the following definition is added: "High Hazard. See Contamination."
- (9) (10) In IPC, Section 202, the following definition is added: "Low Hazard. See Pollution."
- (10) (11) In IPC, Section 202, the following definition is added: "Pollution (Low Hazard). An impairment of the quality of the potable water to a degree that does not create a hazard to the public health but that does adversely and unreasonably affect the aesthetic qualities of such potable water for domestic use."
- (11) (12) In IPC, Section 202, the definition for "Potable Water" is deleted and replaced with the following: "Potable Water. Water free from impurities present in amounts sufficient to cause disease or harmful physiological effects and conforming to the Utah Code, Title 19, Chapters 4, Safe Drinking Water Act, and 5, Water Quality Act, and the regulations of the public health authority having jurisdiction."

Amended by Chapter 297, 2013 General Session

15A-3-303. Amendments to Chapter 3 of IPC.

- (1) In IPC, Section 303.4, the following exception is added:
"Exception: Third-party certification for backflow prevention assemblies will consist of any combination of two certifications, laboratory or field. Acceptable third party laboratory certifying agencies are ASSE, IAPMO, and USC-FCCCHR. USC-FCCCHR currently provides the only field testing of backflow protection assemblies. Also see www.drinkingwater.utah.gov and Division of Drinking Water Rule, Utah Administrative Code, R309-305-6."
- ~~(2) IPC, Section 304.3, Meter Boxes, is deleted.~~
- ~~(2) IPC, Section 307.5, Protection of footings, is deleted.~~
- (3) IPC, Section 311.1, is deleted. "See IBC"
- (4) In IPC, Section 312.3, the following is added at the end of the paragraph:

"Where water is not available at the construction site or where freezing conditions limit the use of water on the construction site, plastic drainage and vent pipe may be permitted to be tested with air. The following procedures shall be followed:

1. Contractor shall recognize that plastic is extremely brittle at lower temperatures and can explode, causing serious injury or death.
2. Contractor assumes all liability for injury or death to persons or damage to property or for claims for labor and/or material arising from any alleged failure of the system during testing with air or compressed gasses.
3. Proper personal protective equipment, including safety eyewear and protective headgear, should be worn by all individuals in any area where an air or gas test is being conducted.
4. Contractor shall take all precautions necessary to limit the pressure within the plastic piping.
5. No water supply system shall be pressurized in excess of 6 psi as measured by accurate gauges graduated to no more than three times the test pressure.
6. The pressure gauge shall be monitored during the test period, which should not exceed 15 minutes.
7. At the conclusion of the test, the system shall be depressurized gradually, all trapped air or gases should be vented, and test balls and plugs should be removed with caution."

(5) In IPC, Section 312.5, the following is added at the end of the paragraph:

"Where water is not available at the construction site or where freezing conditions limit the use of water on the construction site, plastic water pipes may be permitted to be tested with air. The following procedures shall be followed:

1. Contractor shall recognize that plastic is extremely brittle at lower temperatures and can explode, causing serious injury or death.
2. Contractor assumes all liability for injury or death to persons or damage to property or for claims for labor and/or material arising from any alleged failure of the system during testing with air or compressed gasses.
3. Proper personal protective equipment, including safety eyewear and protective headgear, should be worn by all individuals in any area where an air or gas test is being conducted.
4. Contractor shall take all precautions necessary to limit the pressure within the plastic piping.
5. Water supply systems shall be pressure tested to a minimum of 50 psi but not more than 80 psi as measured by accurate gauges graduated to no more than three times the test pressure.
6. The pressure gauge shall be monitored during the test period, which should not exceed 15 minutes.
7. At the conclusion of the test, the system shall be depressurized gradually, all trapped air or gases should be vented, and test balls and plugs should be removed with caution."

(6) A new IPC, Section 312.10.3, is added as follows: "312.10.3 Tester Qualifications. Testing shall be performed by a Utah Certified Backflow Preventer

Assembly Tester in accordance with Utah Administrative Code, R309-305."
Amended by Chapter 297, 2013 General Session

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

- (1) In IPC, Table 403.1, the following changes are made:
 - (a) The title for Table 403.1 is deleted and replaced with the following: "Table 403.1, Minimum Number of Required Plumbing ~~Facilities-Fixtures~~^{a, h}";
 - (b) In ~~the~~ row number "3" for "E" occupancy in the field for "OTHER" a new footnote i g is added.
 - (c) In the row number "5" for "I-4 Adult day care and child day care" occupancy in the field for "OTHER" a new footnote i g is added.
 - (d) A new footnote h f is added as follows: "FOOTNOTE: h f. When provided, in public toilet facilities there shall be an equal number of diaper changing facilities in male toilet rooms and female toilet rooms. Diaper changing facilities shall meet the requirements of ASTM F2285-04 (2010) Standard Consumer Safety Performance Specifications for Diaper Changing Tables for Commercial Use".
 - (e) A new footnote i g is added to the table as follows: "FOOTNOTE i g: Non-residential child care facilities shall comply with the additional sink requirements of Utah Administrative Code R430-100-4."
- (2) A new IPC, Section 406.3, is added as follows: " 406.3 Automatic clothes washer safe pans. Safe pans, when installed under automatic clothes washers, shall be installed in accordance with Section 504.7."
- (3) A new IPC, Section 412.5, is added as follows: "412.5 Public toilet rooms. All public toilet rooms in A & E occupancies and M occupancies with restrooms having multiple water closets or urinals shall be equipped with at least one floor drain."
- (4) IPC, Section 423.3 is deleted.

Amended by Chapter 297, 2013 General Session

15A-3-305. Amendments to Chapter 5 of IPC.

- (1) IPC, Section 502.4, is deleted and replaced with the following: "502.4 Seismic supports. ~~Appliances designed to be fixed in position shall be fastened or anchored in an approved manner.~~ As a minimum requirement, Wwater heaters shall be anchored or strapped to resist horizontal displacement caused by earthquake motion. Strapping shall be at points within the upper one-third and lower one-third of the appliance's vertical dimensions. ~~At the lower point, the strapping shall maintain a minimum distance of 4 inches (102 mm) above the controls.~~"
- (2) In IPC, Section 504.7.2, the following is added at the end of the section: "When permitted by the code official, the pan drain may be directly connected to a soil stack, waste stack, or branch drain. The pan drain shall be individually trapped and vented as required in Section 907.1. The pan drain shall not be directly or indirectly connected to any vent. The trap shall be provided with a trap primer conforming to ASSE 1018 or ASSE 1044, a barrier type floor drain trap seal protection device meeting ASSE 1072, or a deep seal p-trap."
- (3) A new IPC, Section 504.7.3, is added as follows: "504.7.3 Pan Designation.

A water heater pan shall be considered an emergency receptor designated to receive the discharge of water from the water heater only and shall not receive the discharge from any other fixtures, devices, or equipment."

Amended by Chapter 297, 2013 General Session

15A-3-306. Amendments to Chapter 6 of IPC.

- (1) IPC, Section 602.3, is deleted and replaced with the following: "602.3 Individual water supply. Where a potable public water supply is not available, individual sources of potable water supply shall be utilized provided that the source has been developed in accordance with Utah Code, Sections 73-3-1, 73-3-3, and 73-3-25, as of Natural Resources, Division of Water Rights. In addition, the quality of the water shall be approved by the local health department having jurisdiction. The source shall supply sufficient quantity of water to comply with the requirements of this chapter."
- (2) IPC, Sections 602.3.1, 602.3.2, 602.3.3, 602.3.4, 602.3.5, and 602.3.5.1, are deleted.
- (3) A new IPC, Section 604.4.1, is added as follows: "604.4.1 Manually operated metering faucets for food service establishments. Self closing or manually operated metering faucets shall provide a flow of water for at least 15 seconds without the need to reactivate the faucet."
- (4) IPC, Section 606.5, is deleted and replaced with the following: "606.5 Water pressure booster systems. Water pressure booster systems shall be provided as required by Section 606.5.1 through 606.5.11."
- (5) A new IPC, Section 606.5.11, is added as follows: "606.5.11 Prohibited installation. In no case shall a booster pump be allowed that will lower the pressure in the public main to less than the minimum water pressure specified in Utah Administrative Code R309-105-9."
- (6) In IPC, Section 608.1, the words "and pollution" are added after the word "contamination."
- (7) ~~IPC, Table 608.1, is deleted and replaced with the following:~~

~~"TABLE 608.1~~

~~Application of Backflow Preventers~~

"DEVICE	DEGREE OF HAZARD ^a	APPLICATION ^b	APPLICABLE STANDARDS
BACKFLOW PREVENTION ASSEMBLIES:			

Double-check backflow prevention assembly and double-check fire protection backflow prevention assembly	Low hazard	Backpressure or backsiphonage Sizes 3/8"–16"	ASSE 1015, AWWA C510, CSA B64.5, CSA B64.5.1
Double-check detector fire protection backflow prevention assemblies	Low hazard	Backpressure or backsiphonage Sizes 3/8"–16"	ASSE 1048
Pressure vacuum breaker assembly	High or low hazard	Backsiphonage only Sizes 1/2"–2"	ASSE 1020, CSA B64.1.2
Reduced pressure principle backflow prevention assembly and reduced pressure principle fire protection backflow assembly	High or low hazard	Backpressure or backsiphonage Sizes 3/8"–16"	ASSE 1013, AWWA C511, CSA B64.4, CSAB64.4.1
Reduced pressure detector fire protection backflow prevention assemblies	High or low hazard	Backpressure or backsiphonage (Fire Sprinkler Systems)	ASSE 1047
Spill-resistant vacuum breaker assembly	High or low hazard	Backsiphonage only Sizes 1/2"–2"	ASSE 1056
BACKFLOW PREVENTER PLUMBING DEVICES:			
Antisiphon-type fill valves for gravity water closet flush tanks	High hazard	Backsiphonage only	ASSE 1002, CSA B125.3
Backflow preventer	Low hazard	Backpressure or	ASSE 1022

for carbonated beverage machines		backsiphonage Sizes 1/4"–3/8"	
Backflow preventer with intermediate atmospheric vents	Low hazard	Backpressure or backsiphonage Sizes 1/4"–3/8"	ASSE 1012, CSA B64.3
Dual check valve type backflow preventers	Low hazard	Backpressure or backsiphonage Sizes 1/4"–1"	ASSE 1024, CSA B64.6
Hose connection backflow preventer	High or low hazard	Backsiphonage only Sizes 1/2"–1"	ASSE 1052, CSA B64.2, B64.2.1
Hose connection vacuum breaker	High or low hazard	Backsiphonage only Sizes 1/2", 3/4", 1"	ASSE 1011, CAN/CSA B64.1.1
Atmospheric type vacuum breaker	High or low hazard	Backsiphonage only Sizes 1/2"–4"	ASSE 1001, CSA B64.1.1
Vacuum breaker wall hydrants, frost resistant, automatic draining type	High or low hazard	Backsiphonage only Sizes 3/4", 1"	ASSE 1019, CSA B64.2.2
OTHER MEANS or METHODS:			
Air gap	High or low hazard	Backsiphonage only	ASME A112.1.2
Air gap fittings for use with plumbing fixtures, appliances and appurtenances	High or low hazard	Backpressure or backsiphonage	ASME A112.1.3
For SI: 1 inch = 25.4 mm			
a. Low Hazard – See Pollution (Section 202), High Hazard – See Contamination (Section 202)			

b. See Backpressure (Section 202), See Backpressure, low head (Section 202), See Backsiphonage Section 202)

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

In IPC, Section 608.1, the following subsections are added as follows:

608.1.1 General Installation Criteria. Assemblies shall not be installed more than five (5) feet above the floor unless a permanent platform is installed. The assembly owner, where necessary, shall provide devices or structures to facilitate testing, repair, and/or maintenance and to insure the safety of the backflow technician.

608.1.2 Specific installation criteria:

608.1.2.1 Reduced Pressure Principle Backflow Prevention Assembly. The reduced pressure principle backflow prevention assembly shall be installed as follows:

- a. Shall NOT be installed in a pit.
- b. The relief valve of the reduced pressure principle backflow prevention assembly shall not be directly connected to any waste disposal line, including sanitary sewer, storm drains, or vents.
- c. The assembly shall be installed in a horizontal position only unless listed or approved for vertical installation in accordance with Section 303.4
- d. The bottom of each RP assembly shall be installed a minimum of 12 inches above the floor or ground.
- e. The body of the RP assembly shall be a minimum of 12 inches from any walls, ceiling, or obstacle and shall be readily accessible for testing, repair and maintenance.

608.1.2.2 Double Check Valve Backflow Prevention Assembly. Double check valve backflow prevention assembly shall be installed as follows:

- a. Shall be installed in a horizontal position only unless listed or approved for vertical installation.
- b. The bottom of the DC assembly shall be a minimum of 12 inches above the ground or floor. The body of the DC assembly shall be a minimum of 12 inches from any walls, ceilings, or obstacle and shall be readily accessible for testing, repair and maintenance.
- c. If installed in a pit, the DC assembly shall be installed with a minimum of 12 inches of clearance between all sides of the vault including the floor and roof or ceiling with adequate room for testing and maintenance.

608.1.2.3 Pressure Vacuum Break Assembly and Spill Resistant Pressure Vacuum Breaker Assembly. Pressure vacuum break assemblies and spill resistant pressure vacuum breaker assemblies shall be installed as follows:

- 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 piping and the highest point of use.
- c. The PVB or SVB shall be a minimum of 12 inches from walls, ceiling, or obstacle and shall be readily accessible for testing, repair and maintenance.
- d. Shall not be installed below ground or in a vault or pit.

e. Shall be installed in a vertical position only.

- (8) In IPC, Section 608.3, the word "and" after the word "contamination" is deleted and replaced with a comma and the words "and pollution" are added after the word "contamination" in the first sentence.
- (9) In IPC, Section 608.5, the words "with the potential to create a condition of either contamination or pollution or" are added after the word "substances".
- (10) In IPC, Section 608.6, the following sentence is added at the end of the paragraph: "Any connection between potable water piping and sewer-connected waste shall be protected by an air gap in accordance with Section 608.13.1."
- (11) IPC, Section 608.7, is deleted and replaced with the following: "608.7 Stop and Waste Valves installed below grade. Combination stop-and-waste valves shall be permitted to be installed underground or below grade. Freeze proof yard hydrants that drain the riser into the ground are considered to be stop-and-waste valves and shall be permitted. Stop and waste valves shall be installed in accordance with manufacturer's recommended installation instructions."
- (12) In IPC, Section 608.11, the following sentence is added at the end of the paragraph: "The coating and installation shall conform to NSF Standard 61 and application of the coating shall comply with the manufacturer's instructions."
- (13) IPC, Section 608.13.3, is deleted and replaced with the following: "608.13.3 Backflow preventer with intermediate atmospheric vent. Backflow preventers with intermediate atmospheric vents shall conform to ASSE 1012 or CSA CAN/CSA- B64.3. These devices shall be permitted to be installed on residential boilers only, without chemical treatment, where subject to continuous pressure conditions. The relief opening shall discharge by air gap and shall be prevented from being submerged."
- (14) IPC, Section 608.13.4, is deleted.
- (15) IPC, Section 608.13.9, is deleted and replaced with the following: "608.13.9 Chemical dispenser backflow devices. Backflow devices for chemical dispensers shall comply with Section 608.16.7."
- (16) IPC, Section 608.15.3, is deleted and replaced with the following: "608.15.3 Protection by a backflow preventer with intermediate atmospheric vent. Connections to residential boilers only, without chemical treatment, shall be protected by a backflow preventer with an intermediate atmospheric vent."
- (17) IPC, Section 608.15.4, is deleted and replaced with the following: "608.15.4 Protection by a vacuum breaker. Openings and outlets shall be protected by atmospheric-type or pressure-type vacuum breakers. Vacuum breakers shall not be installed under exhaust hoods or similar locations that will contain toxic fumes or vapors. Fill valves shall be set in accordance with Section 425.3.1.
Atmospheric Vacuum Breakers - The critical level of the atmospheric vacuum breaker shall be set a minimum of 6 inches (152 mm) above the flood level rim of the fixture or device. Pipe-applied vacuum breakers shall be installed not less than 6 inches (152 mm) above the flood level rim of the fixture, receptor, or device served. No valves shall be installed downstream of the atmospheric vacuum breaker.
Pressure Vacuum Breaker - The critical level of the pressure vacuum breaker shall be set a minimum of 12 inches (304 mm) above the flood level of the fixture or device."

- (18) In IPC, Section 608.15.4.2, the following is added after the first sentence:
"Add-on-backflow prevention devices shall be non-removable. In climates where freezing temperatures occur, a listed self-draining frost proof hose bibb with an integral backflow preventer shall be used."
- (19) IPC, Section 608.16.2, is deleted and replaced as follows: "608.16.2 Connections to boilers. The potable supply to a boiler shall be protected by an air gap or a reduced pressure principle backflow preventer, complying with ASSE 1013, CSA B64.4 or AWWA C511.
Exception: The potable supply to a residential boiler without chemical treatment may be equipped with a backflow preventer with an intermediate atmospheric vent complying with ASSE 1012 or CSA CAN/CSA-B64.3."
- ~~(20) IPC, Section 608.16.3, is deleted and replaced with the following: "608.16.3 Heat exchangers. Heat exchangers shall be separated from potable water by double wall construction. An air gap open to the atmosphere shall be provided between the two walls.
Exceptions:
1. Single wall heat exchangers shall be permitted when all of the following conditions are met:
a. It utilizes a heat transfer medium of potable water or contains only substances which are recognized as safe by the United States Food and Drug Administration (FDA);
b. The pressure of the heat transfer medium is maintained less than the normal minimum operating pressure of the potable water system; and
c. The equipment is permanently labeled to indicate only additives recognized as safe by the FDA shall be used.
2. Steam systems that comply with paragraph 1 above.
3. Approved listed electrical drinking water coolers."~~
- (21) (20) In IPC, Section 608.16.4.1, a new exception is added as follows:
"Exception: All class 1 and 2 systems containing chemical additives consisting of strictly glycerine (C.P. or U.S.P. 96.5 percent grade) or propylene glycol shall be protected against backflow with a double check valve assembly. Such systems shall include written certification of the chemical additives at the time of original installation and service or maintenance."
- (22) (21) IPC, Section 608.16.7, is deleted and replaced with the following: "608.16.7 Chemical dispensers. Where chemical dispensers connect to the water distribution system, the water supply system shall be protected against backflow in accordance with Section 608.13.1, Section 608.13.2, Section 608.13.5, Section 608.13.6 or Section 608.13.8. Chemical dispensers shall connect to a separate dedicated water supply separate from any sink faucet."
- (23) (22) IPC, Section 608.16.8, is deleted and replaced with the following: "608.16.8 Portable cleaning equipment. Where the portable cleaning equipment connects to the water distribution system, the water supply system shall be protected against backflow in accordance with Section 608.13.1, Section 608.13.2 or Section 608.13.8."
- (24) (23) A new IPC, Section 608.16.11, is added as follows: "608.16.11 Automatic

and coin operated car washes. The water supply to an automatic or coin operated car wash shall be protected in accordance with Section 608.13.1 or Section 608.13.2."

(25) (24) IPC, Section 608.17, is deleted and replaced with the following: "608.17 Protection of individual water supplies. See Section 602.3 for requirements."

Amended by Chapter 189, 2014 General Session

15A-3-307. Amendments to Chapter 7 of IPC.

- (1) IPC, Section 701.2, is deleted and replaced with the following: "701.2 Sewer required. Every building in which plumbing fixtures are installed and all premises having drainage piping shall be connected to a public sewer where the sewer is accessible and is within 300 feet of the property line in accordance with Utah Code, Section 10-8-38; or an approved private sewage disposal system in accordance with Utah Administrative Code, Rule R317-4, as administered by the Department of Environmental Quality, Division of Water Quality."
- (2) In IPC, Section 712.3.3.1, the following words are added before the word "or": "stainless steel, cast iron, galvanized steel".

Amended by Chapter 297, 2013 General Session

15A-3-308. Amendments to Chapter 8 of IPC.

~~IPC, Chapter 8, is not amended.~~

(1) ~~In IPC, Section 802.1.1, the last sentence is deleted.~~

~~Enacted by Chapter 14, 2011 General Session~~

15A-3-309. Amendments to Chapter 9 of IPC.

- (1) In IPC, Section 903.1, when the number of inches is to be specified, "12 inches (304.8mm)" is inserted.
- (2) In IPC, Section 903.6, the following sentence is added at the end of the paragraph: "Vents extending through the wall shall terminate not less than 12 inches from the wall with an elbow pointing downward."
- (3) In IPC, Section 905.4, the following sentence is added at the end of the paragraph: "Horizontal dry vents below the flood level rim shall be permitted for floor drain, floor sink, and bath tub installations when installed in accordance with Sections 702.2, 905.2 and 905.3 and provided with a wall clean out."

Amended by Chapter 297, 2013 General Session

15A-3-310. Amendments to Chapter 10 of IPC.

~~In IPC, Section 1002.4, the following is added at the end of the paragraph:~~

~~"Approved Means of Maintaining Trap Seals. Approved means of maintaining trap seals include the following, but are not limited to the methods cited:~~

- ~~1. A listed trap seal primer conforming to ASSE 1018 and ASSE 1044.~~
- ~~2. A hose bibb or bibbs within the same room.~~
- ~~3. Drainage from an untrapped lavatory discharging to the tailpiece of those fixture traps which require priming. All fixtures shall be in the same room and on the same floor level as the trap primer.~~
- ~~4. Barrier type floor drain trap seal protection device meeting ASSE Standard 1072.~~

5. — ~~Deep seal p-trap.~~

Amended by Chapter 297, 2013 General Session

15A-3-311. Amendments to Chapter 11 of IPC.

(1) — ~~IPC, Section 1104.2, is deleted and replaced with the following: "1104.2 Combining storm and sanitary drainage prohibited. The combining of sanitary and storm drainage systems is prohibited."~~

(1) A new IPC, Section 1106.1.1, is added as follows: "1106.1.1 Alternate Methods. Approved alternate storm drain sizing methods may be allowed."

(2) ~~IPC, Section 1109, is deleted.~~

Amended by Chapter 297, 2013 General Session

15A-3-312. Amendments to Chapter 12 of IPC.

IPC, Chapter 12, is not amended.

Enacted by Chapter 14, 2011 General Session

15A-3-313. Amendments to Chapter 13 of IPC.

(1) — ~~In IPC, Section 1301.1, all words after the word "urinals" are deleted and the following sentence is added at the end: "Gray water recycling systems for subsurface landscape irrigation shall conform with UAC R317-401 Gray Water Systems."~~

(2) — ~~A new IPC, Section 1301.1.1, is added as follows: "1301.1.1 Recording. The existence of a gray water recycling system shall be recorded on the deed of ownership for that property. The certificate of occupancy shall not be issued until the documentation of the recording required under this section is completed by the owner."~~

(3) — ~~In IPC, Section 1301.2, the words "and systems for subsurface landscape irrigation shall comply with Section 1303" are deleted.~~

(4) — ~~IPC, Section 1301.6, is deleted and replaced with the following: "1301.6 Potable water connections. The potable water supply to any building utilizing a gray water recycling system shall be protected against backflow by a reduced pressure backflow prevention assembly installed in accordance with Section 608."~~

(5) — ~~In IPC, Section 1301.7, the following is added at the end of the sentence: "and other clear water wastes which have a pH of 6.0 to 9.0; are non-flammable, non-combustible; without objectionable odor; non-highly pigmented; and will not interfere with the operation of the sewer treatment facility."~~

(6) — ~~In IPC, Section 1302.3, in the second sentence, the following is added between the words "backflow" and "in": "by a reduced pressure backflow prevention assembly or an air gap installed"~~

(7) — ~~IPC, Section 1303, is deleted and replaced with the following: "Section 1303 SUBSURFACE LANDSCAPE IRRIGATION SYSTEMS. Gray water recycling systems utilized for subsurface irrigation for single family residences shall comply with the requirements of UAC R317-401, Gray Water Systems. Gray water recycling systems utilized for subsurface irrigation for other occupancies shall comply with UAC R317-3, Design Requirements for Wastewater Collection, Treatment and Disposal and UAC R317-4, Onsite Waterwaste Systems."~~

- (1) A new IPC, Section 1301.4.1 is added as follows: "1301.4.1 Recording. The existence of a non-potable water system shall be recorded on the deed of ownership for the property. The certificate of occupancy shall not be issued until the documentation for the recording required under this section is completed by the property owner.
- (2) IPC, Section 1301.5, is deleted and replaced with the following: 1301.5 Potable water connections. Where a potable system is connected to a non-potable water system, the potable water supply shall be protected against backflow by a reduced pressure backflow prevention assembly or an air gap installed in accordance with Section 608.
- (3) IPC, Section 1301.9.5, is deleted and replaced with the following: 1301.9.5 Makeup water. Where an uninterrupted supply is required for the intended application, potable or reclaimed water shall be provided as a source of makeup water for the storage tank. The makeup water supply shall be protected against backflow by a reduced pressure backflow prevention assembly or an air gap installed in accordance with Section 608. A full-open valve located on the makeup water supply line to the storage tank shall be provided. Inlets to the storage tank shall be controlled by fill valves or other automatic supply valves installed to prevent the tank from overflowing and to prevent the water level from dropping below a predetermined point. Where makeup water is provided, the water level shall not be permitted to drop below the source water inlet or the intake of any attached pump.
- (4) IPC, Section 1302.12.4, is deleted and replaced with the following: 1302.12.4 Inspection and testing of backflow prevention assemblies. The testing of backflow preventers shall be conducted in accordance with Section 312.10.1, 312.10.2, and 312.10.3.
- (5) IPC, Section 1303.15.6, is deleted and replaced with the following: Inspection and testing of backflow prevention assemblies. The testing of backflow preventers shall be conducted in accordance with Section 312.110.1, 312.10.2, and 312.10.3.
- (6) IPC, Section 1304.4.2, is deleted and replaced with the following: The testing of backflow preventers and backwater valves shall be conducted in accordance with Section 312.10.1, 312.10.2, and 312.10.3.

Amended by Chapter 297, 2013 General Session

15A-3-314. Amendments to Chapter 14 of IPC.

- (1) IPC, Chapter 14, is deleted and replaced with the following"
"Section 1401. SUBSURFACE LANDSCAPE IRRIGATION SYSTEMS. Gray water recycling systems utilized for subsurface irrigation for single family residences shall comply with the requirements of UAC R317-401, Gray Water Systems. Gray water recycling systems utilized for subsurface irrigation for other occupancies shall comply with UAC R317-3, Design Requirements for Wastewater Collection, Treatment and Disposal and UAC R317-4, Onsite Waterwaste Systems."

15A-3-315. Amendments to Chapter 15 of IPC.

- (1) In IPC, Chapter 14, the following referenced standard is added under ASSE:

"Standard reference number	Title	Referenced in code section number
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1072-2007	Performance Requirements for Barrier Type Floor Drain Trap Seal Protection Devices	1004.2"
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(2) (1) In IPC, Chapter 14 15, the following referenced standard is added:

"Standard reference number	Title	Referenced in code section number
USC-FCCCHR 10th Edition Manual of Cross Connection Control	Foundation for Cross-Connection Control and Hydraulic Research University of Southern California Kaprielian Hall 300 Los Angeles CA 90089-2531	Table 608.1"

(3) ~~IPC, Appendix C, is deleted and replaced with the following Appendix C, Gray Water Recycling~~

Amended by Chapter 297, 2013 General Session

15A-3-401. General provisions.

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

- (1) ~~In IMC, Section 202, the definition for "CONDITIONED SPACE" is deleted and replaced with the following: "CONDITIONED SPACE. An area, room, or space enclosed within the building thermal envelope that is directly heated or cooled, or indirectly heated or cooled by any of the following means:~~
1. ~~Openings directly into an adjacent conditioned space.~~
 2. ~~An un-insulated floor, ceiling or wall adjacent to a conditioned space.~~
 3. ~~Un-insulated duct, piping or other heat or cooling source within the space."~~
- (2) ~~In IMC, Section 403.2.1, Item 3, is deleted and replaced with the following: "Except as provided in Table 403.3, Note h, where mechanical exhaust is required by Note b in Table 403.3, recirculation of air from such spaces is prohibited. All air supplied to such spaces shall be exhausted, including any air in excess of that required by Table 403.3."~~
- (3) ~~In IMC, Table 403.3, Note b, is deleted and replaced with the following: "Except as provided in Note h, mechanical exhaust required and the recirculation of air from such spaces is prohibited (see Section 403.2.1, Item 3)."~~
- (4) ~~In IMC, Table 403.3, Note h is deleted and replaced with the following:~~
1. ~~For a nail salon where a nail technician files or shapes an acrylic nail, as defined by rule by the Division of Occupational and Professional Licensing, in accordance with Title 63G, Chapter 3, Utah Administrative Rulemaking Act, each nail station where a nail technician files or shapes an acrylic nail shall be provided with:~~

- a. ~~a source capture system capable of filtering and recirculating air to inside space not less than 50 cfm per station; or~~
- b. ~~a source capture system capable of exhausting not less than 50 cfm per station."~~
- 2. ~~Except as provided in paragraph 3, the requirements described in paragraph 1 apply beginning on July 1, 2020.~~
- 3. ~~The requirements described in paragraph 1 apply beginning on July 1, 2014 if the nail salon is under or begins new construction or remodeling on or after July 1, 2014.~~
- (5) ~~In IMC, Section 403, a new Section 403.8 is added as follows:
"Retrospective effect. Removal, alteration, or abandonment shall not be required, and continued use and maintenance shall be allowed, for a ventilation system within an existing installation that complies with the requirements of this Section 403 regardless of whether the ventilation system satisfied the minimum ventilation rate requirements of prior law."~~
- (6) ~~In IMC, Table 603.4, in the section "Round ducts and enclosed rectangular ducts", the word "enclosed" is deleted; the words "14 inches or less" are deleted and replaced with "over 8 inches but less than 15 inches"; the wording "8 inches or less" under duct size, "0.013" under minimum thickness (in.), "30" under equivalent gage no., and "0.0159" under aluminum minimum thickness (in.), are added; and the section "Exposed rectangular ducts" is deleted.~~
- (7) (1) In IMC, Section 1004.2, the first sentence is deleted and replaced with the following: "Boilers and pressure vessels in Utah are regulated by the Utah Labor Commission, Division of Boiler, Elevator and Coal Mine Safety, except those located in private residences or in apartment houses of less than five family units. Boilers shall be installed in accordance with their listing and labeling, with minimum clearances as prescribed by the manufacturer's installation instructions."
- (8) (2) In IMC, Section 1004.3.1, the word "unlisted" is inserted before the word "boilers".
- (9) (3) IMC, Section 1101.10, is deleted.
- (4) In IMC, Section 1209.3, the following words are added at the end of the section: "or other methods approved for the application."

Amended by Chapter 100, 2014 General Session

15A-3-501. General provisions.

The following are adopted as an amendment to the IFGC to be applicable statewide:

- (1) In IFGC, Section 404.9, a new Section 404.9.1, is added as follows: "404.9.1 Meter protection. Fuel gas services shall be in an approved location and/or provided with structures designed to protect the fuel gas meter and surrounding piping from physical damage, including falling, moving, or migrating ice and snow. If an added structure is used, it must still provide access for service and comply with the IBC or the IRC."
- (2) IFGC, Section 409.5.3, is deleted.
- (3) In IFGC, Section 631.2, the following sentence is inserted before the first sentence: "Boilers and pressure vessels in Utah are regulated by the Utah Labor

Commission, Division of Boiler, Elevator and Coal Mine Safety, except those located in private residences or in apartment houses of less than five family units."
Amended by Chapter 297, 2013 General Session

15A-3-601. General provision.

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

- (1) The IRC provisions are adopted as the residential electrical standards applicable to installations applicable under the IRC. All other installations shall comply with the adopted NEC.
- (2) In NEC, Section 310.15(B)(7), the second sentence is deleted and replaced with the following: "For application of this section, the main power feeder shall be the feeder(s) between the main disconnect and the panelboard(s)."

Amended by Chapter 297, 2013 General Session

15A-3-701. General provisions.

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

- (1) In IECC, Section C202, the definition for "CONDITIONED SPACE" is deleted and replaced with the following: "CONDITIONED SPACE. An area, room or space enclosed within the building thermal envelope that is directly heated or cooled, or indirectly heated or cooled by any of the following means:
 - 1. Openings directly into an adjacent conditioned space.
 - 2. An un-insulated floor, ceiling or wall adjacent to a conditioned space.
 - 3. Un-insulated duct, piping or other heat or cooling source within the space."
- (2) In IECC, Section C404.4, a new exception is added as follows: "Exception: Heat traps, other than the arrangement of piping and fittings, shall be prohibited unless a means of controlling thermal expansion can be ensured as required in the IPC Section 607.3."
- (3) In IECC, Section R103.2, all words after the words "herein governed." are deleted and replaced with the following: "Construction documents include all documentation required to be submitted in order to issue a building permit."
- (4) In IECC, Section R202, the definition for "CONDITIONED SPACE" is deleted and replaced with the following: "CONDITIONED SPACE. An area, room or space enclosed within the building thermal envelope that is directly heated or cooled, or indirectly heated or cooled by any of the following means:
 - 1. Openings directly into an adjacent conditioned space.
 - 2. An un-insulated floor, ceiling or wall adjacent to a conditioned space.
 - 3. Un-insulated duct, piping or other heat or cooling source within the space."
- (5) In IECC, Section R303.3, all wording after the first sentence is deleted.
- (6) In IECC, Table R402.1.1 and Table R402.1.3, the rows for "climate zone 3", "climate zone 5 and Marine 4, and climate zone 6" are deleted and replaced and a new footnote j is added as follows:

"TABLE R402.1.1

INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT^a

CLIMATE ZONE	FENESTRATION U-FACTOR ^b	SKYLIGHT ^b U-FACTOR	GLAZED FENESTRATION SHGC ^{3a}	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE ⁴	FLOOR R-VALUE	BASEMENT ⁵ WALL R-VALUE	SLAB ⁴ R-VALUE	CRAWL SPACE ⁶ WALL R-VALUE
3	0.65	0.65	0.40	30	15	5	19	0	0	5/13
5 and Marine 4	0.35	0.60	NR	38	19 or 13 + 5 ^b	13	30 ^a	10/13	10, 2 ft	10/13
6	0.35	0.60	NR	49	19 or 13 + 5 ^b	15	30 ^a	10/13	10, 4 ft	10/13

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

TABLE R402.1.3 EQUIVALENT U-FACTORS^a

CLIMATE ZONE	FENESTRATION U-FACTOR	SKYLIGHT U-FACTOR	CEILING U-FACTOR	FRAME WALL U-FACTOR	MASS WALL U-FACTOR ^b	FLOOR U-FACTOR	BASEMENT WALL U-FACTOR	CRAWL SPACE WALL U-FACTOR
3	0.65	0.65	0.035	0.082	0.141	0.047	0.360	0.136
5 and Marine 4	0.35	0.60	0.030	0.060	0.082	0.033	0.059	0.065
6	0.35	0.60	0.026	0.060	0.060	0.033	0.059	0.065

- (7) In IECC, Section R402.2.1, the last sentence is deleted.
- (8) In IECC, Section R402.2.2, the last sentence is deleted.
- (9) In IECC, Section R402.3.3, the last sentence is deleted.
- (10) In IECC, Section R402.3.4, the last sentence is deleted.
- (11) In IECC, Section R402.4.1, in the first sentence, the word "and" is deleted and replaced with the word "or".
- (12) In IECC, Section R402.4.1.1, the last sentence is deleted and replaced with the following: "Where allowed by the building official, the builder may certify compliance to components criteria for items which may not be inspected during regularly scheduled inspections."
- (13) In IECC, Section R402.4.1.2, the following changes are made:
 - (a) In the first sentence, the words "in Zones 1 and 2, and 3 air changes per hour in Zone 3 through 8" are deleted.
 - (b) In the third sentence, the words "Where required by the building official," and the word "third" are deleted.
 - (c) The following sentence is inserted after the third sentence: "The following parties shall be approved to conduct testing: Parties certified by BPI or RESNET, or licensed contractors who have completed training provided

by Blower Door Test equipment manufacturers or other comparable training."

- (14) In IECC, Section R402.4.4, the last sentence is deleted.
- (15) In IECC, Section R403.2.2, the requirements for duct tightness testing are deleted and replaced with the following:
 - "1. Postconstruction test: Total leakage shall be less than or equal to 10 cfm (283 L/min) per 100 square feet (9.29 m²) of conditioned floor space when tested at a pressure differential of 0.1 inches w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. All register boots shall be taped or otherwise sealed during the test.
 - 2. Rough-in test: Total leakage shall be less than or equal to 10 cfm (283 L/min) per 100 square feet (9.29 m²) of conditioned floor area when tested at a pressure differential of at least 0.1 inches w.g. (25 Pa) across the system, including the manufacturer's air handler enclosure. All registers shall be taped or otherwise sealed during the test. If the air handler is not installed at the time of the test, total leakage shall be less than or equal to 7.5 cfm (212 L/min) per 100 square feet (9.29 m²) of conditioned floor area."
- (16) In IECC, Section R403.2.2, the exception for total leakage testing is deleted and replaced with the following: "Exception: The total leakage test is not required for systems with all air handlers and at least 50% of all ducts (measured by length) located entirely within the building thermal envelope."
- (17) In IECC, Section R403.2.3, the words "or plenums" are deleted.
- (18) In IECC, Section R403.4.2, the sentences for "3." and "9." and the last sentence are deleted.
- (19) In IECC, Section R403.5, the first sentence is deleted.
- (20) IECC, Section R404.1 and the exception are deleted, and R404.1.1 becomes R404.1.
- (21) In IECC, Table R405.5.2(1), the following changes are made under the column STANDARD REFERENCE DESIGN:
 - (a) In the row "Air exchange rate", the words "in Zones 1 and 2, and 3 air changes per hour in Zones 3 through 8" are deleted.
 - (b) In the row "Heating systems_{f, g}", the standard reference design is deleted and replaced with the following:
 - "Fuel Type: same as proposed design Efficiencies:
 - Electric: air source heat pump with prevailing federal minimum efficiencies
 - Nonelectric furnaces: natural gas furnace with prevailing federal minimum efficiencies
 - Nonelectric boilers: natural gas boiler with prevailing federal minimum efficiencies
 - Capacity: sized in accordance with Section N1103.6"
 - (c) In the row "Cooling systems_{f, h}" the words "As proposed" are deleted and replaced with the following:
 - "Fuel Type: Electric
 - Efficiency: in accordance with prevailing federal minimum standards"

- (d) In the row "Service water heating_{f, g, h, i}", the words "As proposed" are deleted and replaced with the following:
 "Fuel Type: same as proposed design
 Efficiency: in accordance with prevailing federal minimum standards
 Tank Temperature: 120°F"
- (e) In the row "Thermal distribution systems" the word "none" is deleted and replaced with the following: "Thermal distribution system efficiency (DSE) of .080 shall be applied to both the heating and cooling system efficiencies."
- (22) In IECC, Table R405.5.2(2), the number "0.80" is inserted under "Forced air systems" for "Distribution system components located in unconditioned space".
- (23) The RESCheck Software adopted by the United States Department of Energy and modified to meet the requirements of this section shall be used to verify compliance with this section. The software shall address the Total UA alternative approach and account for Equipment Efficiency Trade-offs when applicable per the standard reference design as amended.

Amended by Chapter 279, 2013 General Session

15A-3-801. General provisions.

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

- (1) In Section 202 the definition for existing buildings is deleted and replaced with the following:
EXISTING BUILDING. A building lawfully erected under a prior adopted code, or one which is deemed a legal non-conforming building by the code official, and one which is not a dangerous building.
- (2) In Section 301.1 the exception is deleted.
- (3) Section 403.5 is deleted and replaced with the following" 403.5 Bracing for Unreinforced masonry parapets and other appendages upon reroofing. Where the intended alteration requires a permit for reroofing and involves removal of roofing materials from more than 25 percent of the roof area of a building assigned to Seismic Design Category, D, E, or F that has parapets constructed of unreinforced masonry or appendages such as cornices, spires, towers, tanks, signs, statuary, etc, the work shall include installation of bracing to resist out-of-plane seismic forces, unless an evaluation demonstrates compliance of such items. For purposes of this section, design seismic forces need not be taken greater than 75 percent of those that would be required for the design of similar nonstructural components in new buildings of similar purpose and location.
- (4) In Section 705.1, Exception number 3, the following is added at the end:
"This exception does not apply if the existing facility is undergoing a change of occupancy classification."
- (5) Section 707.3.1 is deleted and replaced with the following" 707.3.1 Bracing for unreinforced masonry bearing wall parapets and other appendages. Where a permit is issued for reroofing more than 25 percent of the roof area of a building assigned to Seismic Design Category, D, E, or F that has parapets constructed of unreinforced masonry or appendages such as cornices, spires, towers, tanks, signs,

statuary, etc, the work shall include installation of bracing to resist the reduced International Building Code level seismic forces as specified in Section 301.1.4.2 of this code unless an evaluation demonstrates compliance of such items.

(6) Section 1007.3.1 is deleted and replaced with the following:

1007.3.1 Compliance with the International Building Code Level Seismic Forces. When a building or portion thereof is subject to a change of occupancy such that a change in the nature of the occupancy results in a higher risk category based on Table 1604.5 of the International Building Code or when such change of occupancy results in a design occupant load increase of 100% or more, the building shall conform to the seismic requirements of the International Building Code for the new risk category.

Exceptions 1- 3 remain unchanged.

4. Where the design occupant load increase is less than 25 occupants and the occupancy category does not change.

(7) In Section 1012.7.3 exception 2 is deleted.

(8) In Section 1012.8.2 number 7 is added as follows:

7. When a change of occupancy in a building or portion of a building results in a Group R-2 occupancy, not less than 20 percent of the dwelling or sleeping units shall be Type B dwelling or sleeping units. These dwelling or sleeping units may be located on any floor of the building provided with an accessible route. Two percent, but not less than one unit, of the dwelling or sleeping units shall be Type A dwelling units.

15A-3-801901. General provision.

Mobile homes built before June 15, 1976 that are subject to relocation, building alteration, remodeling, or rehabilitation shall comply with the following:

(1) Related to exits and egress windows:

(a) Egress windows. The home has at least one egress window in each bedroom, or a window that meets the minimum specifications of the U.S. Department of Housing and Urban Development's (HUD) Manufactured Homes Construction and Safety Standards (MHCSS) program as set forth in 24 C.F.R. Parts 3280 and 3282, MHCSS 3280.106 and 3280.404 for manufactured homes. These standards require the window to be at least 22 inches in the horizontal or vertical position in its least dimension and at least five square feet in area. The bottom of the window opening shall be no more than 36 inches above the floor, and the locks and latches and any window screen or storm window devices that need to be operated to permit exiting shall not be located more than 54 inches above the finished floor.

(b) Exits. The home is required to have two exterior exit doors, located remotely from each other, as required in MHCSS 3280.105. This standard requires that single-section homes have the doors no less than 12 feet, center-to-center, from each other, and multisection home doors no less than 20 feet center-to-center from each other when measured in a straight line, regardless of the length of the

path of travel between the doors. One of the required exit doors must be accessible from the doorway of each bedroom and no more than 35 feet away from any bedroom doorway. An exterior swing door shall have a 28-inch-wide by 74-inch-high clear opening and sliding glass doors shall have a 28-inch-wide by 72-inch-high clear opening. Each exterior door other than screen/storm doors shall have a key-operated lock that has a passage latch; locks shall not require the use of a key or special tool for operation from the inside of the home.

- (2) Related to flame spread:
- (a) Walls, ceilings, and doors. Walls and ceilings adjacent to or enclosing a furnace or water heater shall have an interior finish with a flame-spread rating not exceeding 25. Sealants and other trim materials two inches or less in width used to finish adjacent surfaces within these spaces are exempt from this provision, provided all joints are supported by framing members or materials with a flame spread rating of 25 or less. Combustible doors providing interior or exterior access to furnace and water heater spaces shall be covered with materials of limited combustibility (i.e., 5/16-inch gypsum board, etc.), with the surface allowed to be interrupted for louvers ventilating the space. However, the louvers shall not be of materials of greater combustibility than the door itself (i.e., plastic louvers on a wooden door). Reference MHCSS 3280.203.
 - (b) Exposed interior finishes. Exposed interior finishes adjacent to the cooking range (surfaces include vertical surfaces between the range top and overhead cabinets, the ceiling, or both) shall have a flame-spread rating not exceeding 50, as required by MHCSS 3280.203. Backsplashes not exceeding six inches in height are exempted. Ranges shall have a vertical clearance above the cooking top of not less than 24 inches to the bottom of combustible cabinets, as required by MHCSS 3280.204(e).
- (3) Related to smoke detectors:
- (a) Location. A smoke detector shall be installed on any ceiling or wall in the hallway or space communicating with each bedroom area between the living area and the first bedroom door, unless a door separates the living area from that bedroom area, in which case the detector shall be installed on the living-area side, as close to the door as practicable, as required by MHCSS 3280.208. Homes with bedroom areas separated by anyone or combination of common-use areas such as a kitchen, dining room, living room, or family room (but not a bathroom or utility room) shall be required to have one detector for each bedroom area. When located in the hallways, the detector shall be between the return air intake and the living areas.

- (b) Switches and electrical connections. Smoke detectors shall have no switches in the circuit to the detector between the over-current protection device protecting the branch circuit and the detector. The detector shall be attached to an electrical outlet box and connected by a permanent wiring method to a general electrical circuit. The detector shall not be placed on the same branch circuit or any circuit protected by a ground-fault circuit interrupter.
- (4) Related to solid-fuel-burning stoves/fireplaces:
 - (a) Solid-fuel-burning fireplaces and fireplace stoves. Solid-fuel-burning, factory-built fireplaces, and fireplace stoves may be used in manufactured homes, provided that they are listed for use in manufactured homes and installed according to their listing/manufacturer's instructions and the minimum requirements of MHCSS 3280.709(g).
 - (b) Equipment. A solid-fuel-burning fireplace or fireplace stove shall be equipped with an integral door or shutters designed to close the fire chamber opening and shall include complete means for venting through the roof, a combustion air inlet, a hearth extension, and means to securely attach the unit to the manufactured home structure.
 - (i) Chimney. A listed, factory-built chimney designed to be attached directly to the fireplace/fireplace stove and equipped with, in accordance with the listing, a termination device and spark arrester, shall be required. The chimney shall extend at least three feet above the part of the roof through which it passes and at least two feet above the highest elevation of any part of the manufactured home that is within 10 feet of the chimney.
 - (ii) Air-intake assembly and combustion-air inlet. An air-intake assembly shall be installed in accordance with the terms of listings and the manufacturer's instruction. A combustion-air inlet shall conduct the air directly into the fire chamber and shall be designed to prevent material from the hearth from dropping on the area beneath the manufactured home.
 - (iii) Hearth. The hearth extension shall be of noncombustible material that is a minimum of 3/8-inch thick and shall extend a minimum of 16 inches in front and eight inches beyond each side of the fireplace/fireplace stove opening. The hearth shall also extend over the entire surface beneath a fireplace stove and beneath an elevated and overhanging fireplace.
- (5) Related to electrical wiring systems:
 - (a) Testing. All electrical systems shall be tested for continuity in accordance with MHCSS 3280.810, to ensure that metallic parts are properly bonded; tested for operation, to demonstrate that all

- equipment is connected and in working order; and given a polarity check, to determine that connections are proper.
- (b) 5.2 Protection. The electrical system shall be properly protected for the required amperage load. If the unit wiring employs aluminum conductors, all receptacles and switches rated at 20 amperes or less that are directly connected to the aluminum conductors shall be marked CO/ALA. Exterior receptacles, other than heat tape receptacles, shall be of the ground-fault circuit interrupter (GFI) type. Conductors of dissimilar metals (copper/aluminum or copper-clad aluminum) must be connected in accordance with NEC, Section 110-14.
- (6) Related to replacement furnaces and water heaters:
- (a) Listing. Replacement furnaces or water heaters shall be listed for use in a manufactured home. Vents, roof jacks, and chimneys necessary for the installation shall be listed for use with the furnace or water heater.
 - (b) Securement and accessibility. The furnace and water heater shall be secured in place to avoid displacement. Every furnace and water heater shall be accessible for servicing, for replacement, or both as required by MHCSS 3280.709(a).
 - (c) Installation. Furnaces and water heaters shall be installed to provide complete separation of the combustion system from the interior atmosphere of the manufactured home, as required by MHCSS.
 - (i) Separation. The required separation may be achieved by the installation of a direct-vent system (sealed combustion system) furnace or water heater or the installation of a furnace and water heater venting and combustion systems from the interior atmosphere of the home. There shall be no doors, grills, removable access panels, or other openings into the enclosure from the inside of the manufactured home. All openings for ducts, piping, wiring, etc., shall be sealed.
 - (ii) Water heater. The floor area in the area of the water heater shall be free from damage from moisture to ensure that the floor will support the weight of the water heater.

Amended by Chapter 297, 2013 General Session

15A-4-101. General provision.

The amendments in this part are adopted as amendments to the IBC to be applicable to the specified jurisdiction.

Enacted by Chapter 14, 2011 General Session

15A-4-102. Amendments to IBC applicable to Brian Head Town.

The following amendment is adopted as an amendment to the IBC for Brian Head Town, Subsection 15A-3-104(6) that amends IBC, Section (F)903.2.8, is deleted and replaced with the following: "(F)903.2.8 Group R. An automatic sprinkler system

installed in accordance with Section (F)903.3 shall be provided throughout all buildings with a Group R fire area.

Exception:

1. Detached one and two family dwellings and multiple single-family dwellings (townhouses) constructed in accordance with the International Residential Code for one and two-family dwellings. Except that an automatic fire sprinkler system shall be installed in all one- and two-family dwellings and townhouses over 3,000 square feet in size of defined living space (garage is excluded from defined living space) in accordance with Section (F)903.3.1 of the International Building Code. In areas not served by Brian Head Town culinary water services, NFPA Standard 1142 for water supplies for rural fire fighting shall apply. Any one- and two-family dwellings and townhouses that are difficult to locate or access, as determined by the authority having jurisdiction, shall be required to follow the guidelines as set forth in the NFPA Standard 1142 regardless of the size of the building.
2. Group R-4 fire areas not more than 4,500 gross square feet and not containing more than 16 residents, provided the building is equipped throughout with an approved fire alarm system that is interconnected and receives its primary power from the building wiring and a commercial power system."

Enacted by Chapter 14, 2011 General Session

15A-4-103. Amendments to IBC applicable to City of Farmington.

The following amendments are adopted as amendments to the IBC for the City of Farmington:

- (1) A new IBC, Section (F) 903.2.13, is added as follows: "(F) 903.2.13 Group R, Division 3 Occupancies. An automatic sprinkler system shall be installed throughout every dwelling in accordance with NFPA 13D, when any of the following conditions are present:
 1. The structure is over two stories high, as defined by the building code;
 2. The nearest point of structure is more than 150 feet from the public way;
 3. The total floor area of all stories is over 5,000 square feet (excluding from the calculation the area of the basement and/or garage); or
 4. The structure is located on a street constructed after March 1, 2000, that has a gradient over 12% and, during fire department response, access to the structure will be gained by using such street. (If the access is intended to be from a direction where the steep gradient is not used, as determined by the Chief, this criteria shall not apply). Such sprinkler system shall be installed in basements, but need not be installed in garages, under eaves or in enclosed attic spaces, unless required by the Chief."
- (2) A new IBC, Section 907.9, is added as follows: "907.9 Alarm Circuit

Supervision. Alarm circuits in alarm systems provided for commercial uses (defined as other than one- and two-family dwellings and townhouses) shall have Class "A" type of supervision. Specifically, Type "B" or End-of-line resistor and horn supervised systems are not allowed."

- (3) In NFPA Section 13-07, new sections are added as follows: "6.8.6 FDC Security Locks Required. All Fire Department connections installed for fire sprinkler and standpipe systems shall have approved security locks.
- 6.10 Fire Pump Disconnect Signs. When installing a fire pump, red plastic laminate signs shall be installed in the electrical service panel, if the pump is wired separately from the main disconnect. These signs shall state: "Fire Pump Disconnect ONLY" and "Main Breaker DOES NOT Shut Off Fire Pump".
- 22.1.6 Plan Preparation Identification. All plans for fire sprinkler systems, except for manufacturer's cut sheets of equipment shall include the full name of the person who prepared the drawings. When the drawings are prepared by a registered professional engineer, the engineer's signature shall also be included.
- 22.2.2.3 Verification of Water Supply:
- 22.2.2.3.1 Fire Flow Tests. Fire flow tests for verification of water supply shall be conducted and witnessed for all applications other than residential unless directed otherwise by the Chief. For residential water supply, verification shall be determined by administrative procedure.
- 22.2.2.3.2 Accurate and Verifiable Criteria. The design calculations and criteria shall include an accurate and verifiable water supply.
- 24.2.3.7 Testing and Inspection of Systems. Testing and inspection of sprinkler systems shall include, but are not limited to:
- Commercial:
 - FLUSH-Witness Underground Supply Flush;
 - ROUGH Inspection-Installation of Riser, System Piping, Head Locations and all Components, Hydrostatic Pressure Test;
 - FINAL Inspection-Head Installation and Escutcheons, Inspectors Test Location and Flow, Main Drain Flow, FDC Location and Escutcheon, Alarm Function, Spare Parts, Labeling of Components and Signage, System Completeness, Water Supply Pressure Verification, Evaluation of Any Unusual Parameter."

Enacted by Chapter 14, 2011 General Session

15A-4-104. Amendments to IBC applicable to City of North Salt Lake.

The following amendment is adopted as an amendment to the IBC for the City of North Salt Lake, a new IBC, Section (F)903.2.13, is added as follows: "(F)903.2.13 Group R, Division 3 Occupancies. An automatic sprinkler system shall be installed throughout every dwelling in accordance with NFPA 13D, when the following condition is present:

1. The structure is over 6,200 square feet. Such sprinkler system shall be installed in basements, but need not be installed in garages, under eaves, or in enclosed attic spaces, unless required by the fire chief."

Enacted by Chapter 14, 2011 General Session

15A-4-105. Amendments to IBC applicable to Park City Corporation or Park City Fire District.

- (1) The following amendment is adopted as an amendment to the IBC for the Park City Corporation, in IBC, Section 3409.2, exception 3, is modified to read as follows: "3. Designated as historic under a state or local historic preservation program."
- (2) The following amendments are adopted as amendments to the IBC for the Park City Corporation and Park City Fire District:
 - (a) IBC, Section (F)903.2, is deleted and replaced with the following: "(F)903.2 Where required. Approved automatic sprinkler systems in new buildings and structures shall be provided in the location described in this section.
 - All new construction having more than 6,000 square feet on any one floor, except R-3 occupancy.
 - All new construction having more than two (2) stories, except R-3 occupancy.
 - All new construction having three (3) or more dwelling units, including units rented or leased, and including condominiums or other separate ownership.
 - All new construction in the Historic Commercial Business zone district, regardless of occupancy.
 - All new construction and buildings in the General Commercial zone district where there are side yard setbacks or where one or more side yard setbacks is less than two and one half (2.5) feet per story of height.
 - All existing building within the Historic District Commercial Business zone."
 - (b) In IBC, Table 1505.1, new footnotes d and e are added as follows:
 - "d. Wood roof covering assemblies are prohibited in R-3 occupancies in areas with a combined rating of more than 11 using Tables 1505.1.1 and 1505.1.2 with a score of 9 for weather factors.
 - e. Wood roof covering assemblies shall have a Class A rating in occupancies other than R-3 in areas with a combined rating of more than 11 using Tables 1505.1.1 and 1505.1.2 with a score of 9 for weather factors. The owner of the building shall enter into a written and recorded agreement that the Class A rating of the roof covering assembly will not be altered through any type of maintenance process.

TABLE 1505.1.1		
WILDFIRE HAZARD SEVERITY SCALE		
RATING	SLOPE	VEGETATION
1	less than or equal to 10%	Pinion-juniper
2	10.1 - 20%	Grass-sagebrush
3	greater than 20%	Mountain brush or softwoods

TABLE 1505.1.2		
PROHIBITION/ALLOWANCE OF WOOD ROOFING		
Rating	R-3 Occupancy	All Other Occupancies
Less than or equal to 11	Wood roof covering assemblies per Table 1505.1 are allowed	Wood roof covering assemblies per Table 1505.1 are allowed
Greater than or equal to 12	Wood roof covering is prohibited	Wood roof covering assemblies with a Class A rating are allowed"

(c) IBC, Appendix C, is adopted.

Enacted by Chapter 14, 2011 General Session

15A-4-106. Amendments to IBC applicable to Salt Lake City.

The following amendment is adopted as an amendment to the IBC for Salt Lake City, in IBC, Section 1008.1.9.7, a new exception is added as follows: "Exception: In International Airport areas designated as Group "A" Occupancies where national security interests are present, the use of panic hardware with delayed egress is allowed when all provisions of Section 1008.1.9.7 are met and under item #4 1 second is changed to 2 seconds."

Enacted by Chapter 14, 2011 General Session

15A-4-107. Amendments to IBC applicable to Sandy City.

The following amendments are adopted as amendments to the IBC for Sandy City:

- (1) A new IBC, Section (F)903.2.13, is added as follows: "(F)903.2.13 An automatic sprinkler system shall be installed in accordance with NFPA 13 throughout buildings containing all occupancies where fire flow exceeds 2,000 gallons per minute, based on Table B105.1 of the 2009 International Fire Code. Exempt locations as indicated in Section 903.3.1.1.1 are allowed.
 Exception: Automatic fire sprinklers are not required in buildings used solely for worship, Group R Division 3, Group U occupancies and buildings complying with the International Residential Code unless otherwise required by the International Fire Code.
- (2) A new IBC, Appendix L, is added and adopted as follows: "Appendix L

BUILDINGS AND STRUCTURES CONSTRUCTED IN AREAS DESIGNATED AS WILDLAND-URBAN INTERFACE AREAS AL 101.1 General. Buildings and structures constructed in areas designated as Wildland-Urban Interface Areas by Sandy City shall be constructed using ignition resistant construction as determined by the Fire Marshal. Section 502 of the 2006 International Wildland-Urban Interface Code (IWUIC), as promulgated by the International Code Council, shall be used to determine Fire Hazard Severity. The provisions listed in Chapter 5 of the 2006 International Wildland-Urban Interface Code, as modified herein, shall be used to determine the requirements for Ignition Resistant Construction.

- (i) In Section 504 of the IWUIC Class I IGNITION-RESISTANT CONSTRUCTION a new Section 504.1.1 is added as follows: "504.1.1 General. Subsections 504.5, 504.6, and 504.7 shall only be required on the exposure side of the structure, as determined by the Fire Marshal, where defensible space is less than 50 feet as defined in Section 603 of the 2006 International Wildland-Urban Interface Code.
- (ii) In Section 505 of the IWUIC Class 2 IGNITION-RESISTANT CONSTRUCTION Subsections 505.5 and 505.7 are deleted."

Enacted by Chapter 14, 2011 General Session

15A-4-201. General provision.

- (1) The amendments in this part are adopted as amendments to the IRC to be applicable to specified jurisdiction.
- (2) A local amendment to the following which may be applied to detached one and two family dwellings and multiple single family dwellings shall be applicable to the corresponding provisions of the IRC for the local jurisdiction to which the local amendment has been made:
 - (a) IBC under Part 1, Local Amendments to International Building Code;
 - (b) IPC under Part 3, Local Amendments to International Plumbing Code;
 - (c) IMC under Part 4, Local Amendments to International Mechanical Code;
 - (d) IFGC under Part 5, Local Amendments to International Fuel Gas Code;
 - (e) NEC under Part 6, Local Amendments to National Electrical Code; and
 - (f) IECC under Part 7, Local Amendments to International Energy Conservation Code.

Amended by Chapter 189, 2014 General Session

15A-4-202. Amendments to IRC applicable to Brian Head Town.

The following amendment is adopted as an amendment to the IRC for Brian Head Town, a new IRC, Section R324, is added as follows: "Section R324 Automatic Sprinkler Systems. An automatic fire sprinkler system shall be installed in all one- and two-family dwellings and townhouses over 3,000 square feet in size of defined living space (garage is excluded from defined living space) in accordance with Section (F)903.3.1 of the International Building Code. In areas not served by Brian Head Town

culinary water services, NFPA Standard 1142 for water supplies for rural fire fighting shall apply. Any one- and two-family dwellings and townhouses that are difficult to locate or access, as determined by the authority having jurisdiction, shall be required to follow the guidelines as set forth in the NFPA Standard 1142 regardless of the size of the building."

Enacted by Chapter 14, 2011 General Session

15A-4-203. Amendments to IRC applicable to City of Farmington.

The following amendments are adopted as amendments to the IRC for the City of Farmington:

(1) In IRC, R324 Automatic Sprinkler Systems, new IRC, Sections R324.1 and R324.2 are added as follows: "R324.1 When required. An automatic sprinkler system shall be installed throughout every dwelling in accordance with NFPA 13D, when any of the following conditions are present:

1. the structure is over two stories high, as defined by the building code;
2. the nearest point of structure is more than 150 feet from the public way;
3. the total floor area of all stories is over 5,000 square feet (excluding from the calculation the area of the basement and/or garage); or
4. the structure is located on a street constructed after March 1, 2000 that has a gradient over 12% and, during fire department response, access to the structure will be gained by using such street. (If the access is intended to be from a direction where the steep gradient is not used, as determined by the Chief, this criteria shall not apply).

R324.2 Installation requirements and standards. Such sprinkler system shall be installed in basements, but need not be installed in garages, under eaves or in enclosed attic spaces, unless required by the Chief. Such system shall be installed in accordance with NFPA 13D."

(2) In IRC, Chapter 44, the following NFPA referenced standards are added as follows:

	"TABLE
ADD	
13D-07	Installation of Sprinkler Systems in One- and Two-family Dwellings and Manufactured Homes, as amended by these rules
13R-07	Installation of Sprinkler Systems in Residential Occupancies Up to and Including Four Stories in Height"

(3) In NFPA, Section 13D-07, new sections are added as follows: "1.15

Reference to NFPA 13D. All references to NFPA 13D in the codes, ordinances, rules, or regulations governing NFPA 13D systems shall be read to refer to "modified NFPA 13D" to reference the NFPA 13D as amended by additional regulations adopted by Farmington City.

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

Residential:

ROUGH Inspection-Verify Water Supply Piping Size and Materials, Installation of Riser, System Piping, Head Locations and all Components, Hydrostatic Pressure Test.

FINAL Inspection-Inspectors Test Flow, System Completeness, Spare Parts, Labeling of Components and Signage, Alarm

Function, Water Supply Pressure Verification.

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

EXCEPTIONS:

- a. CPVC Piping is allowed in unfinished mechanical and storage rooms only when specifically listed for the application as installed.
- b. CPVC Piping is allowed in finished, occupied rooms used for sports courts or similar uses only when the ceiling/floor framing above is constructed entirely of non-combustible materials, such as a concrete garage floor on metal decking.

5.2.2.4 Water Supply Piping Material. Water Supply Piping from where the water line enters the dwelling adjacent to and inside the foundation to the fire sprinkler contractor point-of-connection shall be metal, suitable for potable plumbing systems. See Section 7.1.4 for valve prohibition in such piping. Piping down stream from the point-of-connection used in the fire sprinkler system, including the riser, shall conform to NFPA 13D standards.

5.4 Fire Pump Disconnect Signs. When installing a Fire Pump, Red Plastic Laminate Signs shall be installed in the electrical service panel, if the pump is wired separately from the main disconnect. These signs shall state: "Fire Pump Disconnect ONLY" and "Main Breaker DOES NOT Shut Off Fire Pump".

7.1.4 Valve Prohibition. NFPA 13D, Section 7.1 is hereby modified such that NO VALVE is permitted from the City Water Meter to the Fire Sprinkler Riser Control.

7.6.1 Mandatory Exterior Alarm. Every dwelling that has a fire sprinkler system shall have an exterior alarm, installed in an approved location. The alarm shall be of the combination horn/strobe or electric bell/strobe type, approved for outdoor use.

8.1.05 Plan Preparation Identification. All plans for fire sprinkler systems, except for manufacturer's cut sheets of equipment, shall include the full name of the person who prepared the drawings. When the

drawings are prepared by a registered professional engineer, the engineer's signature shall also be included.

8.7 Verification of Water Supply:

8.7.1 Fire Flow Tests: Fire Flow Tests for verification of Water Supply shall be conducted and witnesses for all applications other than residential, unless directed otherwise by the Chief. For residential Water Supply, verification shall be determined by administrative procedure.

8.7.2 Accurate and Verifiable Criteria. The design calculations and criteria shall include an accurate and verifiable Water Supply.

Enacted by Chapter 14, 2011 General Session

15A-4-204. Amendments to IRC applicable to Morgan City Corporation or Morgan County.

- (1) The following amendment is adopted as an amendment to the IRC for the Morgan City Corporation, in IRC, Section R105.2, Work Exempt From Permit, a new list item number 11 is added as follows: "11. Structures intended to house farm animals, or for the storage of feed associated with said farm animals when all the following criteria are met:
 - a. The parcel of property involved is zoned for the keeping of farm animals or has grandfathered animal rights.
 - b. The structure is setback not less than 50 feet from the rear or side of dwellings, and not less than 10 feet from property lines and other structures.
 - c. The structure does not exceed 1,000 square feet of floor area, and is limited to 20 feet in height. Height is measured from the average grade to the highest point of the structure.
 - d. Before construction, a site plan is submitted to, and approved by the building official. Electrical, plumbing, and mechanical permits shall be required when that work is included in the structure."
- (2) The following amendment is adopted as an amendment to the IRC for Morgan County, in IRC, Section R105.2, a new list item number 11 is added as follows:

"11. Structures intended to house farm animals, or for the storage of feed associated with said farm animals when all the following criteria are met:

 - a. The parcel of property involved is zoned for the keeping of farm animals or has grandfathered animal rights.
 - b. The structure is set back not less than required by the Morgan County Zoning Ordinance for such structures, but not less than 10 feet from property lines and other structures.
 - c. The structure does not exceed 1,000 square feet of floor area, and is limited to 20 feet in height. Height is measured from the average grade to the highest point of the structure.
 - d. Before construction, a Land Use Permit must be applied for, and approved, by the Morgan County Planning and Zoning Department.

Electrical, plumbing, and mechanical permits shall be required when that work is included in the structure."

Enacted by Chapter 14, 2011 General Session

15A-4-205. Amendments to IRC applicable to City of North Salt Lake.

The following amendment is adopted as an amendment to the IRC for the City of North Salt Lake, a new IRC, Section R324, is added as follows: "Section R324 Automatic Sprinkler System Requirements. R324.1 When Required. An automatic sprinkler system shall be installed throughout every dwelling when the following condition is present:

1. The structure is over 6,200 square feet.
R324.2 Installation requirements and standards. Such sprinkler system shall be installed in basements, but need not be installed in garages, under eaves, or in enclosed attic spaces, unless required by the fire chief. Such system shall be installed in accordance with NFPA 13D."

Enacted by Chapter 14, 2011 General Session

15A-4-206. Amendments to IRC applicable to Park City Corporation or Park City Fire District.

- (1) The following amendment is adopted as an amendment to the IRC for the Park City Corporation, Appendix P, of the 2006 IRC is adopted.
- (2) The following amendments are adopted as amendments to the IRC for Park City Corporation and Park City Fire District:
 - (a) IRC, Section R905.7, is deleted and replaced with the following: "R905.7 Wood shingles. The installation of wood shingles shall comply with the provisions of this section.
Wood roof covering is prohibited in areas with a combined rating of more than 11 using the following tables with a score of 9 for weather factors.

TABLE		
WILDFIRE HAZARD SEVERITY SCALE		
RATING	SLOPE	VEGETATION
1	less than or equal to 10%	Pinion-juniper
2	10.1 - 20%	Grass-sagebrush
3	greater than 20%	Mountain brush or softwoods
PROHIBITION/EXEMPTION TABLE		
RATING	WOOD ROOF PROHIBITION	
less than or equal to 11	wood roofs are allowed	
greater than or equal to 12	wood roofs are prohibited"	

- (b) IRC, Section R905.8, is deleted and replaced with the following: "R905.8

Wood Shakes. The installation of wood shakes shall comply with the provisions of this section. Wood roof covering is prohibited in areas with a combined rating of more than 11 using the following tables with a score of 9 for weather factors.

TABLE		
WILDFIRE HAZARD SEVERITY SCALE		
RATING	SLOPE	VEGETATION
1	less than or equal to 10%	Pinion-juniper
2	10.1 - 20%	Grass-sagebrush
3	greater than 20%	Mountain brush or softwoods
PROHIBITION/EXEMPTION TABLE		
RATING	WOOD ROOF PROHIBITION	
less than or equal to 11	wood roofs are allowed	
greater than or equal to 12	wood roofs are prohibited"	

(c) Appendix K is adopted.

Enacted by Chapter 14, 2011 General Session

15A-4-207. Amendments to IRC applicable to Sandy City.

The following amendment is adopted as an amendment to the IRC for Sandy City, a new IRC, Section R324, is added as follows: "Section R324 IGNITION RESISTANT CONSTRUCTION

R324.1 General. Buildings and structures constructed in areas designated as Wildland-Urban Interface Areas by Sandy City shall be constructed using ignition resistant construction as determined by the Fire Marshal. Section 502 of the 2006 International Wildland-Urban Interface Code (IWUIC), as promulgated by the International Code Council, shall be used to determine Fire Hazard Severity. The provisions listed in Chapter 5 of the 2006 IWUIC, as modified herein, shall be used to determine the requirements for Ignition Resistant Construction.

- (i) In Section 504 of the IWUIC Class I IGNITION-RESISTANT CONSTRUCTION a new Section 504.1.1 is added as follows:
504.1.1 General. Subsections 504.5, 504.6, and 504.7 shall only be required on the exposure side of the structure, as determined by the Fire Marshal, where defensible space is less than 50 feet as defined in Section 603 of the 2006 IWUIC.
- (ii) In Section 505 of the IWUIC Class 2 IGNITION-RESISTANT CONSTRUCTION

Subsections 505.5 and 505.7 are deleted."

Enacted by Chapter 14, 2011 General Session

15A-4-301. General provision.

The amendments in this part are adopted as amendments to the IPC to be applicable to specified jurisdiction.

Enacted by Chapter 14, 2011 General Session

15A-4-303. Amendments to IPC applicable to South Jordan.

The following amendments are adopted as amendments to the IPC for South Jordan:

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

Enacted by Chapter 14, 2011 General Session

15A-4-401. General provision.

No local amendments to the IMC are adopted.

Enacted by Chapter 14, 2011 General Session

15A-4-501. General provision.

No local amendments to the IFGC are adopted.

Enacted by Chapter 14, 2011 General Session

15A-4-601. General provision.

No local amendments to the NEC are adopted.

Enacted by Chapter 14, 2011 General Session

15A-4-701. General provision.

No local amendments to the IECC are adopted.

Enacted by Chapter 14, 2011 General Session

15A-5-101. Title -- Adoption of code.

In accordance with Chapter 1, Part 4, State Fire Code Administration Act, the Legislature repeals the State Fire Code in effect on July 1, 2010, and adopts this

chapter as the State Fire Code.
Enacted by Chapter 14, 2011 General Session

15A-5-102. Definitions.

As used in this chapter:

- (1) "Appreciable depth" means a depth greater than 1/4 inch.
- (2) "AHJ" means "authority having jurisdiction," which is:
 - (a) the State Fire Marshal;
 - (b) an authorized deputy of the State Fire Marshal; or
 - (c) the local fire enforcement authority.
- (3) "Division" means the State Fire Marshal Division created in Section 53-7-103.
- (4) (a) "Dwelling Unit" means one or more rooms arranged for the use of one or more individuals living together, as in a single housekeeping unit normally having cooking, living, sanitary, and sleeping facilities.
(b) "Dwelling unit" includes a hotel room, dormitory room, apartment, condominium, sleeping room in a nursing home, or similar living unit.
- (5) "IFC" means the edition of the International Fire Code adopted under Section 15A-5-103.
- (6) "NFPA" means the edition of the National Fire Protection Association adopted under Section 15A-5-103.
- (7) "Premixed" means the state of an antifreeze and water solution that results from the solution being prepared by the manufacturer with a quality control procedure that ensures that the antifreeze and water solution does not separate.
- (8) "UL" means Underwriters Laboratories, Inc.

Amended by Chapter 148, 2012 General Session

15A-5-103. Nationally recognized codes incorporated by reference.

The following codes are incorporated by reference into the State Fire Code:

- (1) the International Fire Code, 2012 edition, excluding appendices, as issued by the International Code Council, Inc., except as amended by Part 2, Statewide Amendments and Additions to International Fire Code Incorporated as Part of State Fire Code;
- (2) National Fire Protection Association, NFPA 96, Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations, 2011 edition, except as amended by Part 3, Statewide Amendments and Additions to National Fire Protection Association Incorporated as Part of State Fire Code; and
- (3) National Fire Protection Association, NFPA 1403, Standard on Live Fire Training Evolutions, 2012 edition, except as amended by Part 3, Statewide Amendments and Additions to National Fire Protection Association Incorporated as Part of State Fire Code.

Amended by Chapter 189, 2014 General Session

15A-5-201. General provisions.

The amendments and additions in this part to the IFC are adopted for application statewide.

Enacted by Chapter 14, 2011 General Session

15A-5-202. Amendments and additions to IFC related to administration, permits, definitions, general, and emergency planning.

- (1) For IFC, Chapter 1, Scope and Administration:
 - (a) IFC, Chapter 1, Section 102.9, is amended by adding the following immediately before the period: "on an emergency basis if:
 - (a) the facts known to the fire code official show that an immediate and significant danger to the public health, safety, or welfare exists; and
 - (b) the threat requires immediate action by the fire code official.
- (2) In issuing its emergency order, the fire code official shall:
 - (a) limit the order to require only the action necessary to prevent or avoid the danger to the public health, safety, or welfare; and
 - (b) give immediate notice to the persons who are required to comply with the order, that includes a brief statement of the reasons for the fire code official's order.
- (3) If the emergency order issued under this section will result in the continued infringement or impairment of any legal right or interest of any party, the party shall have a right to appeal the fire code official's order in accordance with IFC, Chapter 1, Section 108."
 - (b) IFC, Chapter 1, Section 105.6.16, Flammable and combustible liquids, is amended to add the following section: "12. The owner of an underground tank that is out of service for longer than one year shall receive a Temporary Closure Notice from the Department of Environmental Quality and a copy shall be given to the AHJ."
 - (c) IFC, Chapter 1, Section 109.3, Notice of violation, is amended as follows: On line three, after the words "is in violation of this code," insert in the section the phrase "or other pertinent laws or ordinances".
- (2) For IFC, Chapter 2, Definitions:
 - (a) IFC, Chapter 2, Section 202, General Definitions, the following definition is added for Ambulatory Surgical Center: "AMBULATORY SURGICAL CENTER. A building or portion of a building licensed by the Utah Department of Health where procedures are performed that may render patients incapable of self preservation where care is less than 24 hours."
 - (b) IFC, Chapter 2, Section 202, General Definitions, FOSTER CARE FACILITIES is amended as follows: the word "Foster" is changed to the word "Child."
 - (c) IFC, Chapter 2, Section 202, General Definitions, Occupancy Classification, Educational Group E, Day care facilities, is amended as follows: On line three delete the word "five" and replace it with the word "four". On line four after the word "supervision" add the words "child care centers."

- (d) IFC, Chapter 2, Section 202, General Definitions, Occupancy Classification, Educational Group E, Five or fewer children is amended as follows: On line one the word "five" is deleted and replaced with the word "four" in both places.
- (e) IFC, Chapter 2, Section 202, General Definitions, Occupancy Classification, Educational Group E, Five or fewer children in a dwelling unit, the word "five" is deleted and replaced with the word "four" in both places.
- (f) IFC, Chapter 2, Section 202, General Definitions, Occupancy Classification, Educational Group E, a new section is added as follows: "Child Day Care -- Residential Certificate or a Family License. Areas used for child day care purposes with a Residential Certificate R430-50 or a Family License, as defined in Utah Administrative Code, R430-90, Licensed Family Child Care, may be located in a Group R-2 or R-3 occupancy as provided in Residential Group R-3, or shall comply with the International Residential Code in accordance with Section R101.2."
- (g) IFC, Chapter 2, Section 202, General Definitions, Occupancy Classification, Educational Group E, a new section is added as follows: "Child Care Centers. Areas used for Hourly Child Care Centers, as defined in Utah Administrative Code, R430-60, Child Care Center as defined in Utah Administrative Code, R430-100, or Out of School Time Programs, as defined in Utah Administrative Code, R430-70, may be classified as accessory occupancies."
- (h) IFC, Chapter 2, Section 202, General Definitions, Occupancy Classification, Institutional Group I, Group I-1, is amended as follows: On line 8 add "Type I" in front of the words "Assisted living facilities".
- (i) IFC, Chapter 2, Section 202, General Definitions, Occupancy Classification, Institutional Group I, Five or fewer persons receiving care is amended as follows: On line four after "International Residential Code" the rest of the section is deleted.
- (j) IFC, Chapter 2, Section 202, General Definitions, Occupancy Classification, Institutional Group I, Group I-2, is amended as follows:
 - (i) On line three delete the word "five" and insert the word "three".
 - (ii) On line six the word "foster" is deleted and replaced with the word "child".
 - (iii) On line 10, after the words "Psychiatric hospitals", add the following to the list: "both intermediate nursing care and skilled nursing care facilities, ambulatory surgical centers with five or more operating rooms, and Type II assisted living facilities. Type II assisted living facilities with five or fewer persons shall be classified as a Group R-4. Type II assisted living facilities with at least six and not more than 16 residents shall be classified as a Group I-1 facility".
- (k) IFC, Chapter 2, Section 202, General Definitions, Occupancy Classification, Institutional Group I, Group I-4, Day care facilities, Classification as Group E, is amended as follows:

- (i) On line two delete the word "five" and replace it with the word "four".
- (ii) On line three delete the words "2 1/2 years or less of age" and replace with the words "under the age of two".
- (l) IFC, Chapter 2, Section 202, General Definitions, Occupancy Classification, Institutional Group Care I, Group I-4, Day care facilities, Five or fewer occupants receiving care in a dwelling unit, is amended as follows: On lines one and two the word "five" is deleted and replaced with the word "four".
- (m) IFC, Chapter 2, Section 202, General Definitions, Occupancy Classification, Residential Group R-3, the words "and single family dwellings complying with the IRC" are added after the word "Residential occupancies".
- (n) IFC, Chapter 2, Section 202, General Definitions, Occupancy Classification, Residential Group R-3, Care facilities within a dwelling, is amended as follows: On line three after the word "dwelling" insert "other than child care".
- (o) IFC, Chapter 2, Section 202, General Definitions, Occupancy Classification, Residential Group R-3, a new section is added as follows: "Child Care. Areas used for child care purposes may be located in a residential dwelling unit when all of the following conditions are met:
 - 1. Compliance with Utah Administrative Code, R710-8, Day Care Rules, as enacted under the authority of the Utah Fire Prevention Board;
 - 2. Use is approved by the Utah Department of Health under the authority of the Utah Code, Title 26, Chapter 39, Utah Child Care Licensing Act, and in any of the following categories:
 - 1.1. Utah Administrative Code, R430-50, Residential Certificate Child Care; or
 - 1.2. Utah Administrative Code, R430-90, Licensed Family Child Care; and
 - 3. Compliance with all zoning regulations of the local regulator."
- (p) IFC, Chapter 2, Section 202, General Definitions, RECORD DRAWINGS, the definition for "RECORD DRAWINGS" is modified by deleting the words "a fire alarm system" and replacing them with "any fire protection system".

Amended by Chapter 199, 2013 General Session, (Coordination Clause)

Amended by Chapter 199, 2013 General Session

Amended by Chapter 357, 2013 General Session

15A-5-202.5. Amendments and additions to Chapters 3 and 4 of IFC.

- (1) For IFC, Chapter 3, General Requirements:
 - (a) IFC, Chapter 3, Section 304.1.2, Vegetation, is amended as follows: Delete line six and replace it with: "the Utah Administrative Code, R652-122-200, Minimum Standards for Wildland Fire Ordinance".

- (b) IFC, Chapter 3, Section 308.1.2, Throwing or Placing Sources of Ignition, is deleted and rewritten as follows: "No person shall throw or place, or cause to be thrown or placed, a lighted match, cigar, cigarette, matches, lighters, or other flaming or glowing substance or object on any surface or article where it can cause an unwanted fire."
- (c) IFC, Chapter 3, Section 310.8, Hazardous and Environmental Conditions, is deleted and rewritten as follows: "When the fire code official determines that hazardous environmental conditions necessitate controlled use of any ignition source, including fireworks, lighters, matches, sky lanterns, and smoking materials, any of the following may occur:
 - 1. If the hazardous environmental conditions exist in a municipality, the legislative body of the municipality may prohibit the ignition or use of an ignition source in mountainous, brush-covered, or forest-covered areas or the wildland urban interface area, which means the line, area, or zone where structures or other human development meet or intermingle with undeveloped wildland or land being used for an agricultural purpose.
 - 2. Except as provided in paragraph 3, if the hazardous environmental conditions exist in an unincorporated area, the state forester may prohibit the ignition or use of an ignition source in all or part of the areas described in paragraph 1 that are within the unincorporated area, after consulting with the county fire code official who has jurisdiction over that area.
 - 3. If the hazardous environmental conditions exist in a township created under Section 17-27a-306 that is in a county of the first class, the county legislative body may prohibit the ignition or use of an ignition source in all or part of the areas described in paragraph 1 that are within the township."
- (d) IFC, Chapter 3, Section 311.1.1, Abandoned Premises, is amended as follows: On line 10 delete the words "International Property Maintenance Code and the".
- (e) IFC, Chapter 3, Section 311.5, Placards, is amended as follows: On line three delete the word "shall" and replace it with the word "may".
- (f) IFC, Chapter 3, Section 315.2.1, Ceiling Clearance, is amended to add the following: "Exception: Where storage is not directly below the sprinkler heads, storage is allowed to be placed to the ceiling on wall-mounted shelves that are protected by fire sprinkler heads in occupancies meeting classification as light or ordinary hazard."
- (2) IFC, Chapter 4, Emergency Planning and Preparedness:
 - (a) IFC, Chapter 4, Section 404.2, Where required, Subsection 8, is amended as follows: After the word "buildings" add "to include sororities and fraternity houses".
 - (b) IFC, Chapter 4, Section 405.2, Table 405.2, is amended to add the following footnotes:
 - (i) "e. Secondary schools in Group E occupancies shall have an emergency evacuation drill for fire conducted at least every two

months, to a total of four emergency evacuation drills during the nine-month school year. The first emergency evacuation drill for fire shall be conducted within 10 school days after the beginning of classes, and the third emergency evacuation drill for fire shall be conducted 10 school days after the beginning of the next calendar year. The second and fourth emergency evacuation drills may be substituted by a security or safety drill to include shelter in place, earthquake drill, or lock down for violence."

- (ii) "f. In Group E occupancies, excluding secondary schools, if the AHJ approves, the monthly required emergency evacuation drill can be substituted by a security or safety drill to include shelter in place, earthquake drill, or lock down for violence. The routine emergency evacuation drill for fire must be conducted at least every other evacuation drill."
- (iii) "g. A-3 occupancies in academic buildings of institutions of higher learning are required to have one emergency evacuation drill per year, provided the following conditions are met:
 - (A) The building has a fire alarm system in accordance with Section 907.2.
 - (B) The rooms classified as assembly shall have fire safety floor plans as required in Section 404.3.2(4) posted.
 - (C) The building is not classified a high-rise building.
 - (D) The building does not contain hazardous materials over the allowable quantities by code."

Amended by Chapter 243, 2014 General Session

15A-5-203. Amendments and additions to IFC related to fire safety, building, and site requirements.

- (1) For IFC, Chapter 5, Fire Service Features:
 - (a) In IFC, Chapter 5, a new Section 501.5, Access grade and fire flow, is added as follows: "An authority having jurisdiction over a structure built in accordance with the requirements of the International Residential Code as adopted in the State Construction Code, may require an automatic fire sprinkler system for the structure only by ordinance and only if any of the following conditions exist:
 - (i) the structure:
 - (A) is located in an urban-wildland interface area as provided in the Utah Wildland Urban Interface Code adopted as a construction code under the State Construction Code; and
 - (B) does not meet the requirements described in Utah Code, Subsection 65A-8-203(3)(a) and Utah Administrative Code, R652-122-200, Minimum Standards for Wildland Fire Ordinance;
 - (ii) the structure is in an area where a public water distribution system with fire hydrants does not exist as required in Utah Administrative Code, R309-550-5, Water Main Design;

- (iii) the only fire apparatus access road has a grade greater than 10% for more than 500 continual feet; or
- (iv) (A) the water supply to the structure does not provide at least 500 gallons fire flow per minute for a minimum of 30 minutes, if the total square foot living space of the structure is equal to or less than 5,000 square feet;
- (B) the water supply to the structure does not provide at least 750 gallons per minute fire flow for a minimum of 30 minutes, if the total square foot living space exceeds 5,000 square feet, but is equal to or less than 10,000 square feet; or
- (C) the water supply to the structure does not provide at least 1,000 gallons per minute fire flow for a minimum of 30 minutes, if the total square foot living space exceeds 10,000 square feet."
- (b) In IFC, Chapter 5, Section 506.1, Where Required, is deleted and rewritten as follows: "Where access to or within a structure or an area is restricted because of secured openings or where immediate access is necessary for life-saving or fire-fighting purposes, the fire code official, after consultation with the building owner, may require a key box to be installed in an approved location. The key box shall contain keys to gain necessary access as required by the fire code official."
- (c) In IFC, Chapter 5, a new Section 507.1.1, Isolated one- and two-family dwellings, is added as follows: "Fire flow may be reduced for an isolated one- and two-family dwelling when the authority having jurisdiction over the dwelling determines that the development of a full fire-flow requirement is impractical."
- (d) In IFC, Chapter 5, a new Section 507.1.2, Pre-existing subdivision lots, is added as follows "Total water supply requirements shall not exceed the fire flows described in Section 501.5(iv) for the largest one- or two-family dwelling, protected by an automatic fire sprinkler system, on a subdivision lot platted before December 31, 1980, unless the municipality or county in which the lot is located provides the required fire flow capacity."
- (e) In IFC, Chapter 5, Section 510.1, Emergency Responder Radio Coverage in New Buildings, is amended by adding: "When required by the fire code official," at the beginning of the first paragraph.
- (2) For IFC, Chapter 6, Building Services and Systems:
 - (a) In IFC, Chapter 6, Section 605.11.3.3.1, Access, is deleted and rewritten as follows: "There shall be a minimum three foot wide (914 mm) clear perimeter around the edges of the roof."
 - (b) In IFC, Chapter 6, Section 605.11.3.3.2, Pathways, is deleted and rewritten as follows: "The solar installation shall be designed to provide designated pathways. The pathways shall meet the following requirements:
 - 1. The pathway shall be over areas capable of supporting the live load of fire fighters accessing the roof.

2. The centerline axis pathways shall be provided in both axes of the roof. Centerline axis pathways shall run where the roof structure is capable of supporting the live load of fire fighters accessing the roof.
 3. Smoke and heat vents required by Section 910.2.1 or 910.2.2 of this Code, shall be provided with a clear pathway width of not less than three feet (914 mm) to vents.
 4. Access to roof area required by Section 504.2 or 1009.16 of this Code, shall be provided with a clear pathway width of not less than three feet (914 mm) around access opening and at least three feet (914 mm) clear pathway to parapet or roof edge."
- (c) In IFC, Chapter 6, Section 605.11.3.2, Residential Systems for One and Two Family Dwellings, is deleted and rewritten as follows: "Access to residential systems for one and two family dwellings shall be provided in accordance with Sections 605.11.3.2.1 through 605.11.3.2.4. Exception: Reduction in pathways and clear access width shall be permitted where shown that a rational approach has been used and that such reductions are warranted when approved by the Fire Code Official."
- (d) In IFC, Chapter 6, Section 605.11.3.3.3, Smoke Ventilation, is deleted and rewritten as follows: "The solar installation shall be designed to meet the following requirements:
1. Arrays shall be no greater than 150 feet (45.720 mm) by 150 feet (45.720 mm) in distance in either axis in order to create opportunities for fire department smoke ventilation operations.
 2. Smoke ventilation options between array sections shall be one of the following:
 - 2.1. A pathway six feet (1829 mm) or greater in width.
 - 2.2. A three foot (914 mm) or greater in width pathway and bordering roof skylights or smoke and heat vents when required by Section 910.2.1 or Section 910.2.2 of this Code.
 - 2.3. Smoke and heat vents designed for remote operation using devices that can be connected to the vent by mechanical, electrical, or any other suitable means, shall be protected as necessary to remain operable for the design period. Controls for remote operation shall be located in a control panel, clearly identified and located in an approved location."
- (e) In IFC, Chapter 6, Section 607.4, Elevator Key Location, is deleted and rewritten as follows: "Firefighter service keys shall be kept in a "Supra-Stor-a-key" elevator key box or similar box with corresponding key system that is adjacent to the elevator for immediate use by the fire department. The key box shall contain one key for each elevator, one key for lobby control, and any other keys necessary for emergency service. The elevator key box shall be accessed using a 6049 numbered key. "
- (f) In IFC, Chapter 6, Section 609.1, General, is amended as follows: On line three, after the word "Code", add the words "and NFPA 96".

- (3) For IFC, Chapter 7, Fire-Resistance-Rated Construction, IFC, Chapter 7, Section 703.2, is amended to add the following: "Exception: In Group E Occupancies, where the corridor serves an occupant load greater than 30 and the building does not have an automatic fire sprinkler system installed, the door closers may be of the friction hold-open type on classrooms' doors with a rating of 20 minutes or less only."

Amended by Chapter 199, 2013 General Session

15A-5-204. Amendments and additions to IFC related to fire protection systems.

For IFC, Fire Protection Systems:

- (1) IFC, Chapter 9, Section 901.2, Construction Documents, is amended to add the following at the end of the section: "The code official has the authority to request record drawings ("as built") to verify any modifications to the previously approved construction documents."
- (2) IFC, Chapter 9, Section 901.4.6, Pump and Riser Room Size, is deleted and replaced with the following: "Pump and Riser Room Size. Fire pump and automatic sprinkler system riser rooms shall be designed with adequate space for all installed equipment necessary for the installation and to provide sufficient working space around the stationary equipment. Clearances around equipment shall be in accordance with manufacturer requirements and not less than the following minimum elements:
 - 901.4.6.1 A minimum clear and unobstructed distance of 12 inches shall be provided from the installed equipment to the elements of permanent construction.
 - 901.4.6.2 A minimum clear and unobstructed distance of 12 inches shall be provided between all other installed equipment and appliances.
 - 901.4.6.3 A clear and unobstructed width of 36 inches shall be provided in front of all installed equipment and appliances, to allow for inspection, service, repair or replacement without removing such elements of permanent construction or disabling the function of a required fire-resistance-rated assembly.
 - 901.4.6.4 Automatic sprinkler system riser rooms shall be provided with a clear and unobstructed passageway to the riser room of not less than 36 inches, and openings into the room shall be clear and unobstructed, with doors swinging in the outward direction from the room and the opening providing a clear width of not less than 34 inches and a clear height of the door opening shall not be less than 80 inches.
 - 901.4.6.5 Fire pump rooms shall be provided with a clear and unobstructed passageway to the fire pump room of not less than 72 inches, and openings into the room shall be clear, unobstructed and large enough to allow for the removal of the largest piece of equipment, with doors swinging in the outward direction from the room and the opening providing a clear width of not less than 68

inches and a clear height of the door opening shall not be less than 80 inches."

- (3) IFC, Chapter 9, Section 903.2.1.2, Group A-2, is amended to add the following subsection: "4. An automatic fire sprinkler system shall be provided throughout Group A-2 occupancies where indoor pyrotechnics are used."
- (4) IFC, Chapter 9, Section 903.2.2, Ambulatory Health Care Facilities, is amended as follows: On line two delete the words "all fire areas floor" and replace with the word "buildings" and delete the last paragraph.
- (5) IFC, Chapter 9, Section 903.2.4, Group F-1, Subsection 2, is deleted and rewritten as follows: "A Group F-1 fire area is located more than three stories above the lowest level of fire department vehicle access."
- (6) IFC, Chapter 9, Section 903.2.7, Group M, Subsection 2, is deleted and rewritten as follows: "A Group M fire area is located more than three stories above the lowest level of fire department vehicle access."
- (7) IFC, Chapter 9, Section 903.2.8 Group R, is amended to add the following:

"Exception: Detached one- and two-family dwellings and multiple single-family dwellings (townhouses) constructed in accordance with the International Residential Code for one- and two-family dwellings."
- (8) IFC, Chapter 9, Section 903.2.8, Group R, is amended to add a second exception as follows: "Exception: Group R-4 fire areas not more than 4,500 gross square feet and not containing more than 16 residents, provided the building is equipped throughout with an approved fire alarm system that is interconnected and receives its primary power from the building wiring and a commercial power system."
- (9) IFC, Chapter 9, Section 903.2.8 Group R, is amended to add a third exception as follows: "Exception: Single story group R-1 occupancies with fire areas not more than 2,000 square feet that contain no installed plumbing or heating, where no cooking occurs, and constructed of Type I-A, I-B, II-A, or II-B construction."
- (10) IFC, Chapter 9, Section 903.2.9, Group S-1, Subsection 2, is deleted and rewritten as follows: "A Group S-1 fire area is located more than three stories above the lowest level of fire department vehicle access."
- (11) IFC, Chapter 9, Section 903.3.1.1 is amended by adding the following subsection: "903.3.1.1.2 Antifreeze Limitations. Antifreeze used in a new automatic sprinkler system installed in accordance with NFPA 13 may not exceed a maximum concentration of 38% premixed propylene glycol or 48% premixed glycerin, and the capacity of the system may not exceed 150 gallons."
- (12) IFC, Chapter 9, Section 903.3.1.2 is amended by adding the following subsection: "903.3.1.2.2 Antifreeze Limitations. Antifreeze used in a new automatic sprinkler system installed in accordance with NFPA 13R may not exceed a maximum concentration of 38% premixed propylene glycol

- or 48% premixed glycerin, and the capacity of the system may not exceed 150 gallons."
- (13) IFC, Chapter 9, Section 903.3.1.3 is amended by adding the following subsection: "903.3.1.3.1 Antifreeze Limitations. Antifreeze used in a new automatic sprinkler system installed in accordance with NFPA 13D may not exceed a maximum concentration of 38% premixed propylene glycol or 48% premixed glycerin, and the capacity of the system may not exceed 150 gallons."
- (14) IFC, Chapter 9, Section 903.3.5, Water supplies, is amended as follows: On line six, after the word "Code", add "and as amended in Utah's State Construction Code".
- (15) IFC, Chapter 9, Section 903.5 is amended to add the following subsection: "903.5.1 Tag and Information. A tag shall be attached to the riser indicating the date the antifreeze solution was tested. The tag shall also indicate the type and concentration of antifreeze solution by volume with which the system is filled, the name of the contractor that tested the antifreeze solution, the contractor's license number, and a warning to test the concentration of the antifreeze solutions at yearly intervals."
- (16) IFC, Chapter 9, Section 904.11, Commercial cooking systems, is deleted and rewritten as follows: "The automatic fire extinguishing system for commercial cooking systems shall be of a type recognized for protection of commercial cooking equipment and exhaust systems. Pre-engineered automatic extinguishing systems shall be tested in accordance with UL300 and listed and labeled for the intended application. The system shall be installed in accordance with this code, its listing and the manufacturer's installation instructions. The exception in Section 904.11 is not deleted and shall remain as currently written in the IFC."
- (17) IFC, Chapter 9, Section 904.11.3, Carbon dioxide systems, and Section 904.11.3.1, Ventilation system, are deleted and rewritten as follows:
- (a) "Existing automatic fire extinguishing systems used for commercial cooking that use dry chemical are prohibited and shall be removed from service."
- (b) "Existing wet chemical fire extinguishing systems used for commercial cooking that are not UL300 listed and labeled are prohibited and shall be either removed or upgraded to a UL300 listed and labeled system."
- (18) IFC, Chapter 9, Section 904.11.4, Special provisions for automatic sprinkler systems, is amended to add the following subsection: "904.11.4.2 Existing automatic fire sprinkler systems protecting commercial cooking equipment, hood, and exhaust systems that generate appreciable depth of cooking oils shall be replaced with a UL300 system that is listed and labeled for the intended application."
- (19) IFC, Chapter 9, Section 904.11.6.2, Extinguishing system service, is amended to add the following: "Exception: Automatic fire extinguishing systems located in occupancies where usage is limited and less than six consecutive months may be serviced annually if the annual service is

conducted immediately before the period of usage, and approval is received from the AHJ."

- (20) IFC, Chapter 9, Section 905.3.9 is a new subsection as follows: "Open Parking Garages. Open parking garages shall be equipped with an approved Class I manual standpipe system when fire department access is not provided for firefighting operations to within 150 feet of all portions of the open parking garage as measured from the approved fire department vehicle access. Class I manual standpipe shall be accessible throughout the parking garage such that all portions of the parking structure are protected within 150 feet of a hose connection.
Exception: Open parking garages equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1."
- (21) IFC, Chapter 9, Section 905.8, Dry Standpipes, Exception is deleted and rewritten as follows: "Where subject to freezing conditions and approved by the fire code official."
- (22) IFC, Chapter 9, Section 905.11, Existing buildings, and IFC, Chapter 11, Section 1103.6, Standpipes, are deleted.
- (23) In IFC, Chapter 9, Section 906.1, Where Required, the exception under paragraph 1 is deleted and rewritten to read: "Exception: In new and existing Group A, B, and E occupancies equipped with quick response sprinklers, portable fire extinguishers shall be required only in locations specified in items 2 through 6."
- (24) IFC, Chapter 9, Section 907.2.3 Group E:
- (a) The first sentence is deleted and rewritten as follows: "A manual fire alarm system that initiates the occupant notification system in accordance with Section 907.5 and installed in accordance with Section 907.6 shall be installed in Group E occupancies."
 - (b) Exception number 3, on line five, delete the words, "emergency voice/alarm communication system" and replace with "occupant notification system."
- (25) IFC, Chapter 9, 907.8, Inspection, testing, and maintenance, is amended to add the following sentences at the end of the section: "Increases in nuisance alarms shall require the fire alarm system to be tested for sensitivity. Fire alarm systems that continue after sensitivity testing with unwarranted nuisance alarms shall be replaced as directed by the AHJ."
- (26) IFC, Chapter 9, Section 908.7, Carbon Monoxide Alarms, is deleted and rewritten as follows:
"908.7 Carbon Monoxide Detection.
908.7.1 Groups R-1, R-2, R-3, R-4, I-1, and I-4. Carbon monoxide detection shall be installed on each habitable level of a dwelling unit or a sleeping unit in Groups R-1, R-2, R-3, R-4, I-1, and I-4 occupancies that are equipped with a fuel-burning appliance.
908.7.1.1 If more than one carbon monoxide detector is required, the carbon monoxide detectors shall be interconnected as required in IFC, Chapter 9, Section 907.2.11.3."

- 908.7.1.2 In new construction, a carbon monoxide detector shall receive its primary power as required under IFC, Chapter 9, Section 907.2.11.4.
- 908.7.1.3 Upon completion of the installation, a carbon monoxide detector system shall meet the requirements listed in NFPA 720, Installation of Carbon Monoxide Detection and Warning Equipment and UL 2034, Standard for Single and Multiple Carbon Monoxide Alarms.
- 908.7.2 Group E. A carbon monoxide detection system shall be installed in new buildings that contain Group E occupancies in accordance with IFC, Chapter 9, Sections 908.7.2.1 through 908.7.2.6. A carbon monoxide detection system shall be installed in existing buildings that contain Group E occupancies in accordance with IFC, Chapter 11, Section 1103.9.
- 908.7.2.1 Where required. In Group E occupancies, a carbon monoxide detection system shall be provided where a fuel-burning appliance, a fuel-burning fireplace, or a fuel-burning forced air furnace is present.
- 908.7.2.2 Detection equipment. Each carbon monoxide detection system shall be installed in accordance with NFPA 720 and the manufacturer's instructions, and be listed as complying with UL 2034 and UL 2075.
- 908.7.2.3 Locations. Each carbon monoxide detection system shall be installed in the locations specified in NFPA 720.
- 908.7.2.4 Combination detectors. A combination carbon monoxide/smoke detector is an acceptable alternative to a carbon monoxide detection system if the combination carbon monoxide/smoke detector is listed in accordance with UL 2075 and UL 268.
- 908.7.2.5 Power source. Each carbon monoxide detection system shall receive primary power from the building wiring if the wiring is served from a commercial source. If primary power is interrupted, each carbon monoxide detection system shall receive power from a battery. Wiring shall be permanent and without a disconnecting switch other than that required for over-current protection.
- 908.7.2.6 Maintenance. Each carbon monoxide detection system shall be maintained in accordance with NFPA 720. A carbon monoxide detection system that becomes inoperable or begins to produce end-of-life signals shall be replaced."

(27) IFC Section 908.7.1 is renumbered to 908.7.3.

Amended by Chapter 74, 2014 General Session Amended by Chapter 243, 2014 General Session

15A-5-205. Amendments and additions to IFC related to means of egress and special processes and uses.

- (1) IFC, Chapter 10, Section 1008.1.9.6, Special locking arrangements in Group I-2, is amended as follows:
- (a) The section title "Special locking arrangements in Group I-2." is rewritten to read "Special locking arrangements in Groups I-1 and I-2."

- (b) On line three, delete the word "Group", and add the words "Group I-1 and".
- (c) After existing Item 7 add Item 8 as follows: "8. The secure area or unit with special egress locks shall be located at the level of exit discharge in Type V construction."
- (2) In IFC, Chapter 10, Section 1008.1.9.7, Delayed egress locks, Item 7 is added after the existing Item 6 as follows: "7. The secure area or unit with delayed egress locks shall be located at the level of exit discharge in Type V construction."
- (3) In IFC, Chapter 10, Section [B] 1009.7.2, Stair Treads and Risers, Exception 5 is deleted and replaced with the following: "5. In Group R-3 occupancies, within dwelling units in Group R-2 occupancies, and in Group U occupancies that are accessory to a Group R-3 occupancy, or accessory to individual dwelling units in Group R-2 occupancies, the maximum riser height shall be 8 inches (203 mm) and the minimum tread depth shall be 9 inches (229 mm). The minimum winder tread depth at the walk line shall be 10 inches (254 mm), and the minimum winder tread depth shall be 6 inches (152 mm). A nosing not less than 0.75 inch (19.1 mm) but not more than 1.25 inches (32 mm) shall be provided on stairways with solid risers where the tread depth is less than 10 inches (254 mm)."
- (4) IFC, Chapter 10, Section 1009.12 [B] 1009.15, Handrails, is amended to add the following exception: "6. In occupancies in Group R-3, as applicable in Section 1012 and in occupancies in Group U, which are accessory to an occupancy in Group R-3, as applicable in Section 1012, handrails shall be provided on at least one side of stairways consisting of four or more risers."
- (5) IFC, Chapter 10, Section 1024, Luminous Egress Path Markings, is deleted.
- (6) IFC, Chapter 10, Section 1030.2.1, Security Devices and Egress Locks, is amended to add the following: On line three, after the word "fire", add the words "and building".

Amended by Chapter 199, 2013 General Session

15A-5-205.5. Amendments to Chapter 11 of IFC.

- (1) In IFC, Chapter 11, Section 1103.2 Emergency Responder Radio Coverage in Existing Buildings, is amended as follows: On line two after the title, the following is added: "When required by the fire code official".
- (2) IFC, Chapter 11, Section 1103.5, Sprinkler Systems, is amended to add the following new subsection: "1103.5.3 Group A-2. An automatic fire sprinkler system shall be provided throughout existing Group A-2 occupancies where indoor pyrotechnics are used."
- (3) IFC, Chapter 11, Section 1103.6, Standpipes, is deleted.
- (4) In IFC, Chapter 11, 1103.7, Fire Alarm Systems, is deleted and rewritten as follows: "1103.7, Fire Alarm Systems. The following shall have an approved fire alarm system installed in accordance with Utah Administrative Code Section R710-4:
 - 1. a building with an occupant load of 300 or more persons that is owned or operated by the state;
 - 2. a building with an occupant load of 300 or more persons that is owned or operated by an institution of higher education; and
 - 3. a building with an occupant load of 50 or more persons that is owned or

operated by a school district, private school, or charter school.
Exception: the requirements of this section do not apply to a building designated as an Institutional Group I (as defined in IFC 202) occupancy."

- (5) IFC, Chapter 11, 1103.7.1 Group E, 1103.7.2 Group I-1, 1103.7.3 Group I-2, 1103.7.4 Group I-3, 1103.7.5 Group R-1, 1103.7.5.1 Group R-1 Hotel and Motel Manual Fire Alarm System, 1103.7.5.1.1 Group R-1 Hotel and Motel Automatic Smoke Detection System, 1103.7.5.2 Group R-1 Boarding and Rooming Houses Manual Fire Alarm System, 1103.7.5.2.1 Group R-1 Boarding and Rooming Houses Automatic Smoke Detection System, 1103.7.6 Group R-2 and 1103.7.7 Group R-4, are deleted.
- (6) IFC, Chapter 11, Section 1103.9, Carbon Monoxide Alarms, is deleted and rewritten as follows:
"1103.9 Carbon Monoxide Detection.
1103.9.1 Groups R-2, R-3, R-4, I-1, and I-4. Carbon monoxide detection shall be installed on each habitable level of a dwelling unit or a sleeping unit in existing Groups R-2, R-3, R-4, I-1, and I-4 occupancies that are equipped with a fuel-burning appliance.
1103.9.1.1 If more than one carbon monoxide detector is required, they shall be interconnected as required in IFC, Chapter 9, Section 907.2.11.3.
1103.9.1.2 In new construction, a carbon monoxide detector shall receive its primary power as required under IFC, Chapter 9, Section 907.2.11.4.
1103.9.1.3 Upon completion of the installation, the carbon monoxide detector system shall meet the requirements listed in NFPA 720, Installation of Carbon Monoxide Detection and Warning Equipment and UL 2034, Standard for Single and Multiple Carbon Monoxide Alarms.
1103.9.2 Group E. Carbon monoxide detection shall be installed in existing buildings that contain Group E occupancies in accordance with IFC, Chapter 9, Sections 908.7.2.1 through 908.7.2.6."

Amended by Chapter 74, 2014 General Session

15A-5-206. Amendments and additions to IFC related to hazardous materials, explosives, fireworks, and flammable and combustible liquids.

- (1) For IFC, Explosives and Fireworks, IFC, Chapter 56, Section 5601.3, Fireworks, Exception 4 is amended to add the following sentence at the end of the exception: "The use of fireworks for display and retail sales is allowed as set forth in Utah Code, Title 53, Chapter 7, Utah Fire Prevention and Safety Act, Sections 53-7-220 through 53-7-225; Utah Code, Title 11, Chapter 3, County and Municipal Fireworks Act; Utah Administrative Code, R710-2; and the State Fire Code."
- (2) For IFC, Chapter 57, Flammable and Combustible Liquids:
 - (a) IFC, Chapter 57, Section 5701.4, Permits, is amended to add the following at the end of the section: "The owner of an underground tank that is out of service for longer than one year shall receive a Temporary Closure Notice from the Department of Environmental Quality, and a copy shall be given to the AHJ."

- (b) IFC, Chapter 57, Section 5706.1, General, is amended to add the following special operation: "8. Sites approved by the AHJ".
 - (c) IFC, Chapter 57, Section 5706.2, Storage and dispensing of flammable and combustible liquids on farms and construction sites, is amended to add the following: On line five, after the words "borrow pits", add the words "and sites approved by the AHJ".
- (3) For IFC, Chapter 61, Liquefied Petroleum Gas:
- (a) IFC, Chapter 61, Section 6101.2, Permits, is amended as follows: On line two, after the word "105.7", add "and the adopted LP Gas rules".
 - (b) IFC, Chapter 61, Section 6103.1, General, is deleted and rewritten as follows: "General. LP Gas equipment shall be installed in accordance with NFPA 54, NFPA 58, the adopted LP Gas rules, and the International Fuel Gas Code, except as otherwise provided in this chapter."
 - (c) Chapter 61, Section 6109.12, Location of storage outside of buildings, is amended as follows: In Table 6109.12, Doorway or opening to a building with two or more means of egress, with regard to quantities 720 or less and 721 -- 2,500, the currently stated "5" is deleted and replaced with "10".
 - (d) IFC, Chapter 61, Section 6109.15.1, Automated Cylinder Exchange Stations, is amended as follows: Item # 4 is deleted.
 - (e) IFC, Chapter 61, Section 6110.1, Temporarily out of service, is amended as follows: On line two, after the word "discontinued", add the words "for more than one year or longer as allowed by the AHJ,".

Amended by Chapter 199, 2013 General Session

15A-5-207. Amendments and additions to IFC related to existing buildings and referenced standards.

IFC, Chapter 80, Referenced Standards, is amended as follows:

- (1) Under the heading NFPA - National Fire Protection Association, delete the existing "Standard reference number" with regard to the edition and replace it with the following:
 - (a) "NFPA, Standard 10, Portable Fire Extinguishers, 2010 edition";
 - (b) "NFPA, Standard 11, Low-, Medium- and High-expansion Foam, 2010 edition";
 - (c) "NFPA, Standard 12, Carbon Dioxide Extinguishing Systems, 2008 edition";
 - (d) "NFPA, Standard 12A, Halon 1301 Fire Extinguishing System, 2009 edition";
 - (e) "NFPA, Standard 13, Installation of Sprinkler Systems, 2010 edition";
 - (f) "NFPA, Standard 13D, Installation of Sprinkler Systems in One- and Two-family Dwellings and Manufactured Homes, 2010 edition";
 - (g) "NFPA, Standard 13R, Installation of Sprinkler Systems in Residential Occupancies up to and Including Four Stories in Height, 2010 edition";
 - (h) "NFPA, Standard 14, Installation of Standpipe and Hose Systems, 2010 edition";

- (i) "NFPA, Standard 17, Dry Chemical Extinguishing Systems, 2009 edition";
 - (j) "NFPA, Standard 17A, Wet Chemical Extinguishing Systems, 2009 edition";
 - (k) "NFPA, Standard 20, Installation of Stationary Pumps for Fire Protection, 2010 edition";
 - (l) "NFPA, Standard 22, Water Tanks for Private Fire Protection, 2008 edition";
 - (m) "NFPA, Standard 24, Installation of Private Fire Service Mains and Their Appurtenances, 2010 edition";
 - (n) "NFPA, Standard 72, National Fire Alarm Code, 2010 edition," all "Referenced in code section numbers" remain the same, except the exclusion of Table 508.1.5;
 - (o) "NFPA, Standard 92B, Smoke Management Systems in Malls, Atria and Large Spaces, 2009 edition";
 - (p) "NFPA, Standard 101, Life Safety Code, 2009 edition";
 - (q) "NFPA, Standard 110, Emergency and Standby Power Systems, 2010 edition";
 - (r) "NFPA 720, Installation of Carbon Monoxide (CO) Detection and Warning Equipment, 2009 edition";
 - (s) "NFPA, Standard 750, Water Mist Fire Protection Systems, 2010 edition"; and
 - (t) "NFPA, Standard 1123, Fireworks Display, 2010 edition."
- (2) Under the heading UL -- Underwriters Laboratories, Inc., add the following:
 "UL2034, Standard for Single and Multiple Station Carbon Monoxide Alarms, 1998."

Amended by Chapter 199, 2013 General Session

15A-5-208. Blasting permits.

- (1) An operational permit is required for the use of any quantity of explosives or explosive materials for the purpose of blasting.
- (2) The State Fire Marshal Division shall issue blasting permits:
 - (a) for those locations where the local fire department that has jurisdiction of the location of the blast does not have a procedure in place for issuing blasting permits; and
 - (b) for multiple blasting activities that are part of one project and that involve conducting blasts in the jurisdictions of more than one fire department.
- (3) The State Fire Marshal Division shall adopt rules pursuant to Title 63G, Chapter 3, Utah Administrative Rulemaking Act, as necessary to implement the procedure of issuing blasting permits under this section.

Enacted by Chapter 84, 2012 General Session

15A-5-301. General provisions.

The amendments and additions in this part to the NFPA are adopted for application statewide.

Enacted by Chapter 14, 2011 General Session

15A-5-302. Amendments and additions to NFPA related to National Fire Alarm Code.

For NFPA 72, National Fire Alarm Code:

- (1) NFPA 72, Chapter 2, Section 2.2, NFPA Publications, is amended to add the following NFPA standard: "NFPA 20, Standard for the Installation of Stationary Pumps for Fire Protection, 2010 edition."
- (2) NFPA 72, Chapter 10, Section 10.4.1, System Designer, Subsection 10.4.1.2(2), is deleted and rewritten as follows: "National Institute of Certification in Engineering Technologies (NICET) fire alarm level II certified personnel."
- (3) NFPA 72, Chapter 10, Section 10.4.2, System Installer, Subsection 10.4.2.2(2), is deleted and rewritten as follows: "National Institute of Certification in Engineering Technologies (NICET) fire alarm level II certified personnel."
- (4) NFPA 72, Chapter 10, Section 10.10, Fire Alarm Signal Deactivation, Subsection 10.10.2, is amended to add the following sentence: "When approved by the AHJ, the audible notification appliances may be deactivated during the investigation mode to prevent unauthorized reentry into the building."
- (5) NFPA 72, Chapter 10, Section 10.15, Protection of Fire Alarm System, is deleted and rewritten as follows: "Automatic smoke detection shall be provided at the location of each fire alarm control unit(s), notification appliance circuit power extenders, and supervising station transmitting equipment to provide notification of fire at the location."
- (6) In NFPA 72, Chapter 10, Section 10.15, a new Exception 1 is added as follows: "When ambient conditions prohibit installation of automatic smoke detection, automatic heat detection shall be permitted."
- (7) In NFPA 72, Chapter 23, Section 23.8.5.9, Signal Initiation -- Fire Pump, Subsection 23.8.5.9.3 is added as follows: "Automatic fire pumps shall be supervised in accordance with NFPA 20, Standard for the Installation of Stationary Pumps for Fire Protection, and the AHJ."
- (8) NFPA 72, Chapter 26, Section 26.3.4, Indication of Central Station Service, Subsection 26.3.4.7 is amended as follows: On line two, after the word "notified", insert the words "without delay".
- (9) NFPA 72, Chapter 10, Section 10.4.3 Inspection, Testing, and Maintenance Personnel, Subsection 10.4.3.1, is deleted and rewritten as follows: "Service personnel shall be qualified and experienced in the inspection, testing, and maintenance of fire alarm systems. Qualified personnel shall meet the certification requirements stated in Utah Administrative Code, R710-11-3, Fire Alarm System Inspecting and Testing."

Amended by Chapter 199, 2013 General Session

15A-5-303. Amendments and additions to NFPA related to manufacture,

transportation, storage, and retail sales of fireworks.

- (1) For purposes of this section and subject to Subsection (2), the Utah Fire Prevention Board shall adopt standards by rule for the retail sales of consumer fireworks, and in doing so, shall consider the applicable provisions of NFPA 1124, Chapter 7, Retail Sales of Consumer Fireworks.
- (2) NFPA 1124 Manufacture, Transportation, Storage, and Retail Sales of Fireworks and Pyrotechnic Articles:
 - (a) In NFPA 1124, Chapter 7, Section 7.2, Special Limits for Retail Sales of Consumer Fireworks, Subsection 7.2.8 is added as follows: "Display of Class C common state approved explosives inside of buildings protected throughout with an automatic fire sprinkler system shall not exceed 25% of the area of the retail sales floor or exceed 600 square feet, whichever is less."
 - (b) In NFPA 1124, Chapter 7, Section 7.2, Special Limits for Retail Sales of Consumer Fireworks, Subsection 7.2.9 is added as follows: "Rack storage of Class C common state approved explosives inside of buildings is prohibited."
 - (c) NFPA 1124, Chapter 7, Section 7.3.1, Exempt Amounts, Subsection 7.3.1.1, is deleted and rewritten as follows: "Display of Class C common state approved explosives inside of buildings not protected with an automatic fire sprinkler system shall not exceed 125 pounds of pyrotechnic composition."
 - (d) NFPA 1124, Chapter 7, Section 7.3.15.2, Height of Sales Displays, Subsection 7.3.15.2.2, is amended as follows: On line three delete "12 ft. (3.66m)" and replace it with "6 ft."

Enacted by Chapter 14, 2011 General Session

15A-5-401. Grandfathering of local ordinances related to automatic sprinkler systems.

An ordinance adopted by a legislative body of a political subdivision that is in effect on June 30, 2010, and that imposes a requirement related to an automatic sprinkler system for a structure built in accordance with the requirements of the International Residential Code as adopted in the State Construction Code may remain in effect on or after July 1, 2010, notwithstanding that the ordinance is not authorized under Subsection 15A-5-203(1).

Amended by Chapter 199, 2013 General Session

AGENDA

UNIFORM BUILDING CODE COMMISSION
ARCHITECTURAL ADVISORY COMMITTEE
UNIFIED CODE ANALYSIS COUNCIL
MEETING

June 2, 2015 9:00 AM

Sandy City Hall Room 341
10000 Centennial Pkwy, Sandy, UT

This agenda is subject to change up to 24 hours prior to the meeting.

Sign attendance sheet

1. Approve minutes from the February 3, March 3, and April 7, 2015 joint meeting for the Unified Code Analysis Council and minutes from the May 5, 2015 meeting
2. Complete review of 2015 IRC and current amendments
3. Review recommendation from Structural Advisory Committed for the 2015 IEBC
4. Start review of 2015 IFC and current amendments

INFO ITEMS

- a. IBC Amendment Status Log
- b. IRC Amendment Status Log
- c. IEBC Amendment Status Log

Next Scheduled Meeting: July 7, 2015

If you do not plan on attending this meeting, please call Sharon at 530-6163 or email at ssmalley@utah.gov or dansjones@utah.gov.



In compliance with the Americans with Disabilities Act, individuals needing special accommodations (including auxiliary communicative aids and services) during this meeting should notify Dave Taylor, ADA Coordinator, at least three working days prior to the meeting. Division of Occupational and Professional Licensing, 160 East 300 South, Salt Lake City UT 84115, Phone 530-6628 or toll-free in Utah only 866-275-3675.

UNIFORM BUILDING CODE COMMISSION
ARCHITECTURAL ADVISORY COMMITTEE
UNIFIED CODE ANALYSIS COUNCIL

April 7, 2015
Sandy City Hall Room 201
10000 Centennial Pkwy Sandy, UT

MINUTES

STAFF:

Dan Jones, Bureau Manager
Sharon Smalley, Board Secretary

ARCHITECTURAL ADVISORY COMMITTEE

William Hall	Chris Jensen
Tracy Ence	Kenny Nichols (excused)
Scott Marsell	Gary Payne
Jerry Jensen	James Sullivan

UNIFIED CODE ANALYSIS COUNCIL

Paul Bauer (excused)	
Thomas Peterson (excused)	Brad Larson
Jeff Darr	Deanne Mousley (excused)
Scott Adams (excused)	Andrew Baxter (excused)
Casey Vorwaller	Dave Vickers

VISITORS:

Jim McClintic, Sandy City

SWEAR IN NEW MEMBER

Dan Jones administered the oath of office to Tracy Ence, the new member for the Architectural Advisory Committee.

MINUTES

A motion was made by William Hall to approve the minutes for the February 3rd and March 3rd, 2015 meetings. The motion was seconded by Jerry Jensen and passed unanimously.

Approval of the Unified Code Analysis Council minutes was tabled until the next meeting as there was not a quorum present.

REVIEW SECTION (F) 903.2.8

The recommendation for this section was tabled until the next meeting.

Jim McClintic spoke to the committees in connection with a change that has been made to the 2015 IBC for Incidental Uses Specific to Ambulatory Care Facilities. Following a discuss, it was decided to review this at the next meeting. William Hall will do some research for the next meeting.

Gary Payne joined the meeting at this point.

COMPLETE REVIEW OF CHAPTER 9 OF
THE 2015 IBC AND CURRENT
AMENDMENTS

The recommendation for amendments to Section 905.3.9 and Section 905.8 was tabled until the next meeting.

REVIEW CHAPTERS 10 THROUGH 15

The committees reviewed the current amendment for Section 1028.12. The section number needs to be renumbered to 1029.14. Following the discussion, a motion was made by William Hall to keep the current amendment as modified. The motion was seconded by Chris Jensen and passed unanimously.

A motion was made by James Sullivan to keep the current amendment to Section 1109.8 and modify the word "lift" to "lifts". The motion was seconded by William Hall and passed unanimously.

A motion was made by James Sullivan to keep the current amendment to Section 1208.4. The motion was seconded by Chris Jensen and passed unanimously.

A recommendation for the amendments to Chapter 15 was tabled until the next meeting.

James Sullivan gave his review of Chapter 29. A motion was made by James Sullivan to keep the current amendment to Section (P) Table 2902.1 and approve the chapter as modified unless the Plumbing Advisory Committee has other recommendations. The motion was seconded by Tracy Ence and passed unanimously.

START REVIEW OF THE 2015 IRC AND
CURRENT AMENDMENTS

Chapters 1-5 of the IRC will be reviewed at the next meeting.

Page 3 of 3
Joint Meeting
Uniform Building Code Commission
Architectural Advisory Committee
Unified Code Analysis Council
April 7, 2015

The meeting adjourned at 10:25.

Note: These minutes are not intended to be a verbatim transcript but are intended to record the significant features of the business conducted in this meeting. Discussed items are not necessarily shown in the chronological order they occurred.

UNIFORM BUILDING CODE COMMISSION
ARCHITECTURAL ADVISORY COMMITTEE
UNIFIED CODE ANALYSIS COUNCIL

February 3, 2015
Sandy City Hall Room 341
10000 Centennial Pkwy Sandy, UT

MINUTES

STAFF:

Dan Jones, Bureau Manager
Sharon Smalley, Board Secretary

ARCHITECTURAL ADVISORY COMMITTEE

William Hall	Chris Jensen
Tracy Ence (excused)	Kenny Nichols
Scott Marsell (excused)	Gary Payne
Jerry Jensen	James Sullivan

UNIFIED CODE ANALYSIS COUNCIL

Paul Bauer	James Williams
Thomas Peterson	Brad Larson
Jeff Darr	Deanne Mousley
Scott Adams	Andrew Baxter (excused)
Casey Vorwaller	Dave Vickers

VISITORS:

Wendy Johnson, Midway City	Jim McClintic, Sandy City
Kevin Emerson, Utah Clean Energy	Eric Miller, Farmington City
Clint Neering, Wasatch County Fire	Ernie Giles, Wasatch County Fire

SWEAR IN NEW MEMBER

Brad Larson was sworn in as the new member for the Unified Code Analysis Council.

MINUTES

A motion was made by James Sullivan to approve the minutes from the November 4, 2014 joint meeting as written. The motion was seconded by Kenny Nichols and passed unanimously.

REVIEW PROPOSED AMENDMENT TO SECTION (F)908.7

Deanne Mousley gave an overview of the proposal that Scott Marsell drafted for this section of the IBC and IFC. Following the review and discussion on the proposal, a motion was made by Tom Peterson to approve the proposal as presented. The motion was seconded by Gary Payne. During discus-

A motion was made by Brad Larson to modify the current amendment for Section 1008.1.9.6 by changing the section number 1010.1.9.6, deleting the words from "the words" up to the words "a new", and changing the number 8 to 9. The motion was seconded by Jeff Darr and passed unanimously.

A recommendation for Section 1008.1.9.7 was made to change the section number to 1010.1.9.7 and number 7 to number 9. A decision on the wording was tabled until the next meeting.

Tom Peterson left at this point in the meeting.

A motion was made by Kenny Nichols to modify the current amendment for Section 1009.7.2 by changing it to 1011.5.2 and exception number 5 to number 3. The motion was seconded by Jeff Darr and passed unanimously.

A motion was made by Chris Jensen to modify the current amendment for Section 1009.15 by changing the section number to 1011.11 and exception 6 to exception 5. The motion was seconded by Kenny Nichols and passed unanimously.

A motion was made by Dave Vickers to modify the current amendment for Section 1011.5 by changing the section number to 1013.5. The motion was seconded by Brad Larson and passed unanimously.

A motion was made by James Sullivan to modify the current amendment for Section 1024 by changing the section to 1025. The motion was seconded by Gary Payne and passed with a vote of eleven in favor and James Williams, Jeff Darr and Paul Bauer voting in opposition.

A motion was made by James Sullivan to keep the current amendment for Section 403.5.5. The motion was seconded by Kenny Nichols and passed with a vote of eleven in favor and James Williams,

Jeff Darr and Paul Bauer voting in opposition.

At this point in the meeting Dave Vickers left.

A recommendation for the current amendment for 1028.12 was made to change the section number to 1029.14. A decision on the wording was tabled until the next meeting.

Kevin Emerson spoke to the committees in connection with the review of the energy code. A copy of the reports by Envision Utah and the Utah Energy Efficiency & Conservation Plan will be sent to both committees.

The meeting adjourned at 11:10.

Note: These minutes are not intended to be a verbatim transcript but are intended to record the significant features of the business conducted in this meeting. Discussed items are not necessarily shown in the chronological order they occurred.

UNIFORM BUILDING CODE COMMISSION
ARCHITECTURAL ADVISORY COMMITTEE
UNIFIED CODE ANALYSIS COUNCIL

March 3, 2015
Sandy City Hall Room 341
10000 Centennial Pkwy Sandy, UT

MINUTES

STAFF:

Dan Jones, Bureau Manager
Sharon Smalley, Board Secretary

ARCHITECTURAL ADVISORY COMMITTEE

William Hall	Chris Jensen
Tracy Ence (excused)	Kenny Nichols
Scott Marsell (excused)	Gary Payne (excused)
Jerry Jensen (absent)	James Sullivan

UNIFIED CODE ANALYSIS COUNCIL

Paul Bauer (excused)	James Williams
Thomas Peterson (absent)	Brad Larson (excused)
Jeff Darr (excused)	Deanne Mousley
Scott Adams	Andrew Baxter (excused)
Casey Vorwaller (excused)	Dave Vickers

VISITORS:

Mitch Richardson, Survey & Testing Services

SWEAR IN NEW MEMBER

Tracy Ence was not present to be sworn in.

MINUTES

Approval of the February 3, 2015 minutes was tabled until the next meeting as there was not a quorum present for either committee.

REVIEW SECTION (F) 903.2.8

Those present reviewed the current amendment for this section. Deanne Mousley gave a review of this section. Her recommendation is to modify the current amendment by adding the deletion of (F)903.2.8.4 and to renumber (F)903.2.8.3. This will be reviewed at the next meeting.

COMPLETE REVIEW OF CHAPTER 9 OF
THE 2015 IBC AND CURRENT
AMENDMENTS

Deanne Mousley gave a report on her review of the rest of Chapter 9. It was recommended that an amendment be added for Section 905.3.9 and

905.8. This will be reviewed at the next meeting.

REVIEW CHAPTERS 10 THROUGH 15

Those present discussed the current amendment for Section 1008.1.9.7. They are recommending that the amendment be deleted. This will be covered at the next meeting.

The current amendment for Section 1028.12 was discussed. A recommendation will be made at the next meeting to keep the current amendment.

A recommendation will be made at the next meeting to keep the current amendment for Sections 1109.8 and 1208.4.

Those present asked that the Structural Advisory Committee also review Chapter 15.

The meeting adjourned at 11:07.

Note: These minutes are not intended to be a verbatim transcript but are intended to record the significant features of the business conducted in this meeting. Discussed items are not necessarily shown in the chronological order they occurred.

UNIFORM BUILDING CODE COMMISSION
ARCHITECTURAL ADVISORY COMMITTEE
UNIFIED CODE ANALYSIS COUNCIL

May 5, 2015
Sandy City Hall Room 341
10000 Centennial Pkwy Sandy, UT

MINUTES

STAFF:

Dan Jones, Bureau Manager
Sharon Smalley, Board Secretary

ARCHITECTURAL ADVISORY COMMITTEE

William Hall	Chris Jensen
Tracy Ence (excused)	Kenny Nichols
Scott Marsell	Gary Payne
Jerry Jensen (absent)	James Sullivan (absent)

UNIFIED CODE ANALYSIS COUNCIL

Paul Bauer (excused)	
Thomas Peterson	Brad Larson (excused)
Jeff Darr (excused)	Deanne Mousley
Scott Adams	Andrew Baxter (excused)
Casey Vorwaller	Dave Vickers (absent)

VISITORS:

Kevin Emerson, Utah Clean Energy	Dave Brems, Architect/CAAT
Jim McClintic, Sandy City	

MINUTES

Approval of the minutes for the February 3, March 3, and April 7, 2015 meetings was deferred until the next meeting as there was not a quorum present for the Unified Code Analysis Council.

A motion was made by Kenny Nichols to approve the minutes from the April 7, 2015 meeting for the Architectural Advisory Committee. The motion was seconded by Chris Jensen and passed unanimously.

Dave Brems spoke to the committees in connection with the importance of adopting the 2015 IECC. He was asked to come to the Commission meeting

REVIEW SECTION (F)903.2.8

in June to make his presentation.

Deanne Mousley presented a recommendation for this section that would modify the current amendment. Following the discussion, a motion was made by Deanne Mousley to modify the current amendment as presented. The motion was seconded by Scott Marsell and passed unanimously.

REVIEW SECTION (F)905.3.9 AND SECTION (F)905.8

Following the review of these sections, a recommendation was made to delete the current amendments for Sections (F)406.5.8 and (F)406.5.8.1 and add two new amendments for (F)905.3.9 and (F)905.8. A motion was made by Deanne Mousley to approve this change. The motion was seconded by Tom Peterson and passed unanimously.

COMPLETE REVIEW OF CHAPTER 9 OF THE 2015 IBC AND CURRENT AMENDMENTS

No other recommendations were made for this chapter.

The committees reviewed the current amendment for Section 1008.1.9.7. Following the discussion, a motion was made by Scott Marsell to delete the current amendment. The motion was seconded by Kenny Nichols and passed unanimously.

REVIEW TABLE 509 INCIDENTAL USES SPECIFIC TO AMBULATORY CARE FACILITIES

The committees reviewed this section and no recommendations were made.

REVIEW CHAPTER 15

Following the discussion on this chapter, a motion was made by Tom Peterson to delete all four current amendments. The motion was seconded by Scott Marsell and passed unanimously.

REVIEW CHAPTERS 1-5 OF THE 2015 IRC AND CURRENT AMENDMENTS

The committees reviewed these chapters along with the current amendments and the following recommendations were made:

A motion was made by Chris Jensen to delete the current amendments for Sections R302.2 and R302.2.4. The motion was seconded by Kenny Nichols and passed unanimously.

A motion was made by Chris Jensen to keep the current amendments for R301.2(5) and R301.6. The motion was seconded by Casey Vorwaller and passed unanimously.

A motion was made by Scott Marsell to keep the current amendment for Section R303.4 and modify Section R311.7. The motion was seconded by Chris Jensen and passed unanimously.

A motion was made by Scott Marsell to delete the current amendment for Section R312.1.2. The motion was seconded by Chris Jensen and passed unanimously.

A motion was made by Scott Marsell to keep the current amendment for Section R312.2. The motion was seconded by Chris Jensen and passed unanimously.

A motion was made by Scott Marsell to modify the current amendment for Section R313.1 by adding the words "or NFPA 13D". The motion was seconded by Chris Jensen.

A motion was made by Scott Marsell to keep the current amendment for Section R404.1. The motion was seconded by Chris Jensen and passed unanimously.

A motion was made by Scott Marsell to delete the current amendment for Section R501.3. The motion was seconded by Chris Jensen and passed unanimously.

The meeting adjourned at 11:07.

Note: These minutes are not intended to be a verbatim transcript but are intended to record the significant features of the business conducted in this meeting. Discussed items are not necessarily shown in the chronological order they occurred.

Agenda Item #3

15A-3-801. General provisions.

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

- (1) In Section 202 the definition for existing buildings is deleted and replaced with the following:
EXISTING BUILDING. A building lawfully erected under a prior adopted code, or one which is deemed a legal non-conforming building by the code official, and one which is not a dangerous building.
- (2) In Section 301.1 the exception is deleted.
- (3) Section 403.5 is deleted and replaced with the following" 403.5 Bracing for unreinforced masonry parapets and other appendages upon reroofing. Where the intended alteration requires a permit for reroofing and involves removal of roofing materials from more than 25 percent of the roof area of a building assigned to Seismic Design Category, D, E, or F that has parapets constructed of unreinforced masonry or appendages such as cornices, spires, towers, tanks, signs, statuary, etc, the work shall include installation of bracing to resist out-of-plane seismic forces, unless an evaluation demonstrates compliance of such items. For purposes of this section, design seismic forces need not be taken greater than 75 percent of those that would be required for the design of similar nonstructural components in new buildings of similar purpose and location.
- (4) In Section 705.1, Exception number 3, the following is added at the end: "This exception does not apply if the existing facility is undergoing a change of occupancy classification."
- (5) Section 707.3.1 is deleted and replaced with the following" 707.3.1 Bracing for unreinforced masonry bearing wall parapets and other appendages. Where a permit is issued for reroofing more than 25 percent of the roof area of a building assigned to Seismic Design Category, D, E, or F that has parapets constructed of unreinforced masonry or appendages such as cornices, spires, towers, tanks, signs, statuary, etc, the work shall include installation of bracing to resist the reduced International Building Code level seismic forces as specified in Section 301.1.4.2 of this code unless an evaluation demonstrates compliance of such items.
- (6) Section 1007.3.1 is deleted and replaced with the following:
1007.3.1 Compliance with the International Building Code Level Seismic Forces. When a building or portion thereof is subject to a change of occupancy such that a change in the nature of the occupancy results in a higher risk category based on Table 1604.5 of the International Building Code or when such change of occupancy results in a design occupant load increase of 100% or more, the building shall conform to the seismic requirements of the International Building Code for the new risk category. Exceptions 1- 3 remain unchanged.
4. Where the design occupant load increase is less than 25 occupants and the occupancy category does not change.
- (7) In Section 1012.7.3 exception 2 is deleted.

(8) In Section 1012.8.2 number 7 is added as follows:

7. When a change of occupancy in a building or portion of a building results in a Group R-2 occupancy, not less than 20 percent of the dwelling or sleeping units shall be Type B dwelling or sleeping units. These dwelling or sleeping units may be located on any floor of the building provided with an accessible route. Two percent, but not less than one unit, of the dwelling or sleeping units shall be Type A dwelling units.

Info Items

IBC AMENDMENT STATUS LOG
 PENDING
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Section to Amend	Proponent & Agency	Approved/Denied by Committee	Commission Appr/Deny for Hearing	Published	Public Hearing	Commission Appr/Deny Amendment	Effective Date
307.1	Architectural - Unified	10-7-14					
308.2	Architectural - Unified	10-7-14					
(F)908.7	Scott Marsell	2-3-15 approved					
Wasatch Fire District local amendment	Wasatch County	2-3-15 tabled					
907.2.3	Deanne Mousley	2-3-15 approved					

IEBC AMENDMENT STATUS LOG
PENDING

Section to Amend	Proponent & Agency	Approved/Denied by Committee	Commission Appr/Deny for Hearing	Published	Public Hearing	Commission Appr/Deny Amendment	Effective Date
Section 202 - existing building	Structural Advisory Committee	Approved 5-7-15					
301.1	Structural Advisory Committee	Approved 5-7-15					
403.5	Structural Advisory Committee	Approved 5-7-15					
705.1	Structural Advisory Committee	Approved 5-7-15					
707.3.1	Structural Advisory Committee	Approved 5-7-15					
1007.3.1	Structural Advisory Committee	Approved 5-7-15					
1012.7.3	Structural Advisory Committee	Approved 5-7-15					
1012.8.2	Structural Advisory Committee	Approved 5-7-15					