UNIFORM BUILDING CODE COMMISSION
MEETING
November 10, 2021 9:00 AM

AGENDA

Anchor Location
Room 474
Heber M Wells Building
160 E 300 S
Salt Lake City UT

Join with Google Meet
meet.google.com/fpj-uujc-xoz

Join by phone
(US) +1 617-675-4444 PIN: 378 105 172 7280#

Welcome, and reimbursement sheet

1. Roll call
2. Approve minutes from August 11, 2021 meeting
3. Review proposed amendment to 2015 IRC Table P2903.2 & 2018 IPC Table 604.4
4. Review proposed amendment to 2015 IRC R202
5. Review recommendation from the Plumbing/Health Advisory Committee for the 2021 IPC, 2021 ISPSC, and plumbing portion of the 2021 IRC
6. Advisory Committee reports
   a. Architectural Committee – October 5, 2021
   b. Education Committee - no meeting
   c. International Mechanical Committee – 8-10-21
   d. National Electrical Code Committee – 8-12-21, 9-9-21, 10-14-21
   e. Plumbing Code/Health Committee – 9-2-21, 10-7-21
   f. Structural Committee –8-5-21, 9-2-21, 10-7-21
   g. Unified Code Analysis Council – October 5, 2021
   h. Education fund balance sheet

Please call Sharon at 530-6163 if you do not plan on attending the meeting.
Posted to web 8-3-21

In compliance with the Americans with Disabilities Act, individuals needing special accommodations (including auxiliary communicative aids and services) during this meeting should notify Carol Inglesby, ADA Coordinator, Division of Occupational and Professional Licensing, 160 East 300 South, Salt Lake City UT 84111, Phone 530-6626, at least three working days prior to the meeting.

MINUTES

UTAH
UNIFORM BUILDING CODE COMMISSION

August 11, 2021

9:00

Convened: 9:02

Adjourned: 10:07

STAFF:
Deborah Blackburn
Steve Duncombe, Bureau Manager
Sharon Smalley, Board Secretary

COMMISSIONERS:
Thomas Peterson
Josh Blazzard
LoriAnne Bisping
Travis Hales
Trent Hunt
Chad Flinders
Jorg Ruegemer (excused)
Chris Hendrickson
Art Anderson
Karl Mott
Kent Bush (absent)
Scott Carpenter
Steve Dailey

VISITORS:
Andrew Klein
Priscilla Magee
Deron Brunson
Thomas Kessinger
Ross Ford

PUBLIC HEARING

Deborah Blackburn conducted a public hearing on the proposed amendments to Title 15A.

The new Commission members were welcomed and each member of the Commission gave their background.

ELECT A NEW CHAIR AND VICE CHAIR

A motion was made by Karl Mott to nominate Tom Peterson as chairman. The motion was seconded by Josh Blazzard and passed unanimously.

A motion was made by Karl Mott to nominate Josh Blazzard as vice chair. The motion was seconded by Trent Hunt and passed unanimously.

APPOINT ADVISORY

LoriAnne Bisping volunteered to be the liaison for the Architectural Advisory Committee. Chris

COMMITTEE LIASIONS	Hendrickson volunteered be the liaison for the Unified Code Analysis Council. The liaison for the remaining committees will stay the same.
MINUTES	A motion was made by Josh Blazzard to approve the minutes from the July 14, 2021 meeting as written. The motion was seconded by Karl Mott and passed unanimously.
REVIEW PROPOSED AMENDMENTS TO 2015 IRC SECTION R404 AND 2018 IBC SECTION 1901.3	Deron Brunson spoke to the Commission in connection with his proposed amendments. Following a discussion, Josh Blazzard recommended that the proposal be reviewed by the Structural Advisory Committee first for their recommendation. The proposal had previously been denied by the Architectural Advisory Committee and the Unified Code Analysis Council.
MAKE A RECOMMENDATION TO THE BUSINESS AND LABOR INTERIM COMMITTEE FOR PROPOSED AMENDMENTS TO TITLE 15A FROM THE PUBLIC HEARING	The Division did not receive any public comments on the proposal and there were no comments made during the public hearing for the proposed amendments to Title 15A. Following the discussion, a motion was made by Josh Blazzard to forward the proposal to the Business and Labor Interim Committee with a favorable recommendation. The motion was seconded by Karl Mott and passed unanimously.
ADVISORY COMMITTEE REPORTS	Those present reviewed the advisory committee reports and discussed how they were going to handle the recommendations for the 2021 codes. It was decided that they would review the recommendations as the committees finished their review of each book, the current amendments for that code and any proposed amendments. They will start the review at their next meeting which will be November 10th.

The meeting adjourned at 10:07.

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.

UTAH DEPARTMENT OF COMMERCE
DIVISION OF OCCUPATIONAL AND PROFESSIONAL LICENSING
160 East 300 South Salt Lake City UT 84111
PO Box 146741 Salt Lake City UT 84114-6741
E-mail: dansjones@utah.gov
Web www.dopl.utah.gov

REQUEST FOR CODE AMENDMENT

Requesting Agency/Person: Jordan Valley Water Conservancy District	Date: September 20, 2021
Street Address: 8215 South 1300 West	
City, State, Zip: West Jordan, UT 84088	
Contact Person: Bart Forsyth, CEO/General Manager	Phone: 801-565-4300
Code to be Amended: 2018 International Plumbing Code (Include edition)	
Section: 604	
Section Title: Design of Building Water Distribution System	

AMENDMENT:

Type proposed amendment in rule change form. (Using strikeout on portions being removed and underline on all new wording.)

1. Include the entire section you wish to amend.
2. Attach additional sheets if necessary.

TABLE 604.4
MAXIMUM FLOW RATES AND CONSUMPTION
TO PLUMBING FIXTURES AND FIXTURE FITTINGS

PLUMBING FIXTURE OR FIXTURE FITTING	*MAXIMUM FLOW RATE OR QUANTITY[b]*
Lavatory, private	*~~2.2~~ 1.5 gpm at 60 psi*
Lavatory, public (metering)	*0.25 gallon per metering cycle*
Lavatory, public (other than metering)	*0.5 gpm at 60 psi*
Shower head	*~~2.5~~ 2 gpm at 80 psi*
Sink faucet	*2.2 gpm at 60 psi*
Urinal	*~~1.0~~ 0.5 gallon per flushing cycle*
Water closet	*~~1.6~~ 1.28 gallons per flushing cycle*

Purpose of or Reason for the amendment:
Water efficiency standards for indoor fixtures would provide significant water savings for Utah communities, improve drought resiliency, and allow for a more balanced approach to managing the competing demands of water and population growth. The proposed modifications are based on the U.S. Environmental Protection Agency's WaterSense program, which sets requirements for water fixtures to be at least 20 percent more water efficient than existing federal standards while maintaining comparable or better performance.

Across the Western United States, several states including California, Colorado, Nevada, and Texas have already successfully adopted indoor water efficiency standards. If Utah followed a similar model, state water managers could expect savings of roughly 16,000 acre-feet (5.2 billion gallons) per year by the year 2030.

Cost or Savings Impact of Amendment:
Outside of the water savings, there are no known cost impacts anticipated as a result of adopting this proposed amendment.

Compliance Costs for Affected Persons (APerson@ means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons {cost per person times number of persons affected}):

WaterSense labeled fixtures are widely available from both local and national suppliers and retailers. Consumers often purchase these water-efficient fixtures without realizing it. As with any product, there are many factors that influence price, however a comparison of similar brands/models shows no real cost difference in fixtures that meet existing federal standards to those that meet the WaterSense standards. It is expected that there will be no significant cost difference to comply with this proposed amendment.

Signature: Barton A. Forsyth	Date: Sept. 21, 2021

For Division Use:

Date Received:	
Committee Action: ☐ Approved ☐ Denied ☐ Approved with revisions ☐ Referred to: ☐ Tabled	**UBC Commission Decision for Hearing:** ☐ Approved for hearing ☐ Denied ☐ Approved with revisions ☐ Referred to: ☐ Tabled
Date Filed:	Public Hearing Date:
UBC Commission Decision for Adoption: ☐ Approved ☐ Denied ☐ Approved with revisions ☐ Referred to: ☐ Tabled	Effective Date:

UTAH DEPARTMENT OF COMMERCE
DIVISION OF OCCUPATIONAL AND PROFESSIONAL LICENSING
160 East 300 South Salt Lake City UT 84111
PO Box 146741 Salt Lake City UT 84114-6741
E-mail: dansjones@utah.gov
Web www.dopl.utah.gov

REQUEST FOR CODE AMENDMENT

Requesting Agency/Person: Jordan Valley Water Conservancy District	Date: October 19, 2021
Street Address: 8215 South 1300 West	
City, State, Zip: West Jordan, UT 84088	
Contact Person: Bart Forsyth, CEO/General Manager	Phone: 801-565-4300
Code to be Amended: 2021 IPC and IRC (Include edition)	
Section: 604	
Section Title: Design of Building Water Distribution System	

AMENDMENT:

Type proposed amendment in rule change form. (Using strikeout on portions being removed and underline on all new wording.)

1. Include the entire section you wish to amend.
2. Attach additional sheets if necessary.

TABLE 604.4 OF IPC
MAXIMUM FLOW RATES AND CONSUMPTION
TO PLUMBING FIXTURES AND FIXTURE FITTINGS

PLUMBING FIXTURE OR FIXTURE FITTING	*MAXIMUM FLOW RATE OR QUANTITY[b]*
Lavatory, private	*~~2.2~~ 1.5 gpm at 60 psi*
Lavatory, public (metering)	*0.25 gallon per metering cycle*
Lavatory, public (other than metering)	*0.5 gpm at 60 psi*
Shower head	*~~2.5~~ 2 gpm at 80 psi*
Sink faucet	*2.2 gpm at 60 psi*
Urinal	*~~1.0~~ 0.5 gallon per flushing cycle*
Water closet	*~~1.6~~ 1.28 gallons per flushing cycle*

TABLE P2903.2 OF IRC

MAXIMUM FLOW RATES AND CONSUMPTION FOR PLUMBING FIXTURES AND FIXTURE FITTINGS

PLUMBING FIXTURE OR FIXTURE FITTING	*MAXIMUM FLOW RATE OR QUANTITY*
Lavatory faucet	*~~2.2~~ 1.5 gpm at 60 psi*
Shower head	*~~2.5~~ 2 gpm at 80 psi*
Sink faucet	*2.2 gpm at 60 psi*
Water closet	*~~1.6~~ 1.28 gallons per flushing cycle*

Purpose of or Reason for the amendment:
Water efficiency standards for indoor fixtures would provide significant water savings for Utah communities, improve drought resiliency, and allow for a more balanced approach to managing the competing demands of water and population growth. The proposed modifications are based on the U.S. Environmental Protection Agency's WaterSense program, which sets requirements for water fixtures to be at least 20 percent more water efficient than existing federal standards while maintaining comparable or better performance.

Across the Western United States, several states including California, Colorado, Nevada, and Texas have already successfully adopted indoor water efficiency standards. If Utah followed a similar model, state water managers could expect savings of roughly 16,000 acre-feet (5.2 billion gallons) per year by the year 2030.

Cost or Savings Impact of Amendment:
Outside of the water savings, there are no known cost impacts anticipated as a result of adopting this proposed amendment.

Compliance Costs for Affected Persons (APerson@ means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons {cost per person times number of persons affected}):

WaterSense labeled fixtures are widely available from both local and national suppliers and retailers. Consumers often purchase these water-efficient fixtures without realizing it. As with any product, there are many factors that influence price, however a comparison of similar brands/models shows no real cost difference in fixtures that meet existing federal standards to those that meet the WaterSense standards. It is expected that there will be no significant cost difference to comply with this proposed amendment.

Signature: Bartan G. Jones	Date: 10-19-2021

For Division Use:

Date Received:

Committee Action:	**UBC Commission Decision for Hearing:**
☐ Approved ☐ Denied	☐ Approved for hearing ☐ Denied
☐ Approved with revisions	☐ Approved with revisions

☐ Referred to: ☐ Tabled	☐ Referred to: ☐ Tabled
Date Filed:	Public Hearing Date:
UBC Commission Decision for Adoption: ☐ Approved ☐ Denied ☐ Approved with revisions ☐ Referred to: ☐ Tabled	Effective Date:

UTAH UNIFORM BUILDING STANDARDS
Form and Procedures for Code Amendments

(1) All requests for amendments:
(a) shall be submitted to the Division on the attached form and
(b) shall be submitted in correct code editing format and shall contain a cost impact analysis. (Editing format should include ~~strikeout~~ for deletion and <u>underline</u> for additions.)

(2) The Division will review the proposed amendments for proper form and cost analysis and return them to the proponent if incorrect or incomplete.

(3) The Division will forward the proposed amendments to the appropriate building codes advisory committee(s) based on the particular code(s) affected.

(4) The assigned advisory committee(s) will review the proposed change and may meet with the proponent of each amendment. After its review, the committee will make a recommendation to the Commission.

(5) The Commission will recommend to the division the disposition of the proposed amendment which could be any of the following:
(a) deny the proposed amendment;
(b) return the proposed amendment to the proponent with recommendations for specific changes;
(c) return the proposed amendment to the assigned advisory committee(s) with recommendations for specific changes; or
(d) forward the proposed amendment to interested persons and associations for comments or review;

UTAH DEPARTMENT OF COMMERCE
DIVISION OF OCCUPATIONAL AND PROFESSIONAL LICENSING
160 East 300 South Salt Lake City UT 84111
PO Box 146741 Salt Lake City UT 84114-6741
E-mail: b5@utah.gov
Web: www.dopl.utah.gov

REQUEST FOR CODE AMENDMENT

Requesting Agency/Person: Home Builders Association of Utah	Date:11/01/2021
Street Address:38 W 13775 S suite 120	
City, State, Zip Draper Utah 84020	
Contact Person: Ross Ford	Phone:801-352-8266
Code to be Amended: 2015 IRC (Include edition)	
Section: R202	
Section Title: Definitions	

AMENDMENT:

Type proposed amendment in rule change form. (Using strikeout on portions being removed and underline on all new wording.)

After APPROVED. Acceptable to the building official. Add the words

APPROVED HVAC SIZING, DESIGN, AND BUILDING LOAD CALULATIONS METHODOLOGIES ACCA manuals S, J and D or Any person qualified by education, industry certification, or a minimum of 3 years industry experience.

Purpose of or Reason for the amendment:

The code clearly accepts ACCA manuals and offer a path for other approve methods but only defines approved methodologies as "acceptable to the building official."

The industry needs clear and predictable design criteria with specifications regarding who can complete the calculations. Current code leaves the decision up to each jurisdictions building official.

Building officials are experts in ensuring a proper design is correctly installed, however they are not experts in HVAC design or analyzing and validating the qualification of design experts.

HVAC designers need the flexibility to apply the expertise gained from experience to properly size equipment, and layout duct work for optimal performance.

Strict use of ACCA manuals restricts HVAC design experts, and General contractors from meeting the specific performance requirements of homeowners.

A clear understanding of who can complete the calculations and properly design the system and size equipment opens the option of having stake holders meet to discuss special uses and performance expectations rather than relying on a prescriptive formula.

Cost or Savings Impact of Amendment:

This amendment impacts the design process so there will be little or no change in cost.

However proper design of the system could save homeowners many thousands of dollars in the future. An improperly designed system that fails to cool or heat the home properly, could force the home owner to upgrade or replace equipment costing tens of thousands of dollars.

Compliance Costs for Affected Persons (APerson@ means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons {cost per person times number of persons affected}):

This amendment will have no cost impact for compliance

Signature:	Date:

For Division Use:

Date Received:

Committee Action:	**UBC Commission Decision for Hearing:**
Approved Δ Denied Approved with revisions Referred to: Tabled	Approved for hearing Δ Denied Approved with revisions Referred to: Tabled
Date Filed:	Public Hearing Date:
UBC Commission Decision for Adoption: Approved Δ Denied Approved with revisions	

Referred to: Tabled	Effective Date:

(11) The Department of Health or the Department of Environmental Quality may enforce a rule or requirement adopted before January 1, 2015.

Amended by Chapter 18, 2017 General Session
Amended by Chapter 341, 2017 General Session

Chapter 2 Adoption of State Construction Code

Part 1 General Provisions

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 2a, Tall Wood Buildings of Mass Timber Construction Incorporated as Part of State Construction Code;
(c)Chapter 3, Statewide Amendments Incorporated as Part of State Construction Code;
(d)Chapter 4, Local Amendments Incorporated as Part of State Construction Code; and
(e)Chapter 6, Additional Construction Requirements.

Amended by Chapter 43, 2020 General Session

15A-2-102 Definitions.

As used in this chapter, Chapter 2a, Tall Wood Buildings of Mass Timber Construction Incorporated as Part of State Construction Code, 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) "IEBC" means the edition of the International Existing Building Code adopted under Section15A-2-103.
(4) "IECC" means the edition of the International Energy Conservation Code adopted under Section 15A-2-103.
(5) "IFGC" means the edition of the International Fuel Gas Code adopted under Section15A-2-103.
(6) "IMC" means the edition of the International Mechanical Code adopted under Section15A-2-103.
(7) "IPC" means the edition of the International Plumbing Code adopted under Section 15A-2-103.

(8) "IRC" means the edition of the International Residential Code adopted under Section15A-2-103.
(9) "ISPSC" means the edition of the International Swimming Pool and Spa Code adopted under Section 15A-2-103.
(10) "NEC" means the edition of the National Electrical Code adopted under Section 15A-2-103.
(11) "UWUI" means the edition of the Utah Wildland Urban Interface Code adopted under Section15A-2-103.

Amended by Chapter 43, 2020 General Session
Amended by Chapter 441, 2020 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 Incorporated as Part of State Construction 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 ~~2018~~ 2021 edition of the International Building Code, including Appendix J, issued by the International Code Council;
(b) the ~~2015~~ 2021 edition of the International Residential Code, issued by the International Code Council;
(c) Appendix Q of the ~~2018~~ 2021 edition of the International Residential Code, issued by the International Code Council;
(d) the ~~2018~~ 2021 edition of the International Plumbing Code, issued by the International Code Council;
(e) the ~~2018~~ 2021 edition of the International Mechanical Code, issued by the International Code Council;
(f) the ~~2018~~ 2021 edition of the International Fuel Gas Code, issued by the International Code Council;
(g) the 2020 edition of the National Electrical Code, issued by the National Fire Protection Association;
(h) the residential provisions of the 2015 edition of the International Energy Conservation Code, issued by the International Code Council;
(i) the commercial provisions of the ~~2018~~ 2021 edition of the International Energy Conservation Code, issued by the International Code Council;
(j) the ~~2018~~ 2021 edition of the International Existing Building Code, issued by the International Code Council;
(k) subject to Subsection 15A-2-104(2), the HUD Code;
(l) subject to Subsection 15A-2-104(1), Appendix E of the 2015 edition of the International Residential Code, issued by the International Code Council;
(m) 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;

(n) subject to Subsection (3), for standards and guidelines pertaining to plaster on a historic property, as defined in Section 9-8-302, the U.S. Department of the Interior Secretary's Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings; and

(o) the residential provisions of the ~~2018~~ 2021 edition of the International Swimming Pool and Spa Code, issued by the International Code Council.

(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.

(3) The standards and guidelines described in Subsection (1)(n) apply only if:

(a) the owner of the historic property receives a government tax subsidy based on the property's status as a historic property;

(b) the historic property is wholly or partially funded by public money; or

(c) the historic property is owned by a government entity.

Amended by Chapter 441, 2020 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 2015 edition of the IRC, as issued by the International Code Council for installations defined in Section AE101 of Appendix E; or

(ii) if an installation is beyond the scope of the 2015 edition of the IRC as defined in SectionAE101 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 ~~2015~~ 2021 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, Statewide Amendments to International Existing Building Code.

(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 249, 2016 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

Chapter 2a Tall Wood Buildings of Mass Timber Construction Incorporated as Part of State Construction Code

Part 1 General Provisions

15A-2a-101 Title.

(1) ~~This chapter is known as "Tall Wood Buildings of Mass Timber Construction Incorporated as Part of State Construction Code."~~

(2) This chapter establishes building standards for the use of mass timber products in residential and commercial building construction and is applicable statewide.
(3) Where this chapter replaces a section of the IBC that Chapter 3, Statewide Amendments Incorporated as Part of State Construction Code, or Chapter 4, Local Amendments Incorporated as Part of State Construction Code, amends, the amendment in Chapter 3 or 4 shall apply to the IBC replacement in this chapter. Enacted by Chapter 43, 2020 General Session

15A-2a-102 Definitions.

As used in this chapter:
(1) "Mass timber" means a structural element of Type IV construction primarily of solid, built-up, panelized or engineered wood products that meet minimum cross section dimensions of Type IV construction.
(2) "Non-combustible protection" (for mass timber) means non-combustible material in accordance with IBC Section 703.5, designed to increase the fire-resistance rating and delay the combustion of mass timber.
(3) "Wall, load-bearing" means any wall meeting either of the following classifications:
(a) any metal or wood stud wall that supports more than 100 pounds per linear foot (1459 N/m) of vertical load in addition to its own weight; or
(b) any masonry or concrete, or mass timber wall that supports more than 200 pounds per linear foot (2919 N/m) of vertical load in addition to its own weight. Enacted by Chapter 43, 2020 General Session

Part 2
Statewide Amendments to International Building Code

15A-2a-201 Amendments to Chapter 4 of IBC.

In IBC, Section 403.3.2, is deleted and replaced with the following: "403.3.3 Water supply to required fire pumps. In all buildings that are more than 420 feet (128m) in building height, and buildings of Type IV-A and IV-B construction that are more than 120 feet in building height, required fire pumps shall be supplied by connections to not fewer than two water mains located in different streets. Separate supply piping shall be provided between each connection to the water main and the pumps. Each connection and the supply piping between the connection and the pumps shall be sized to supply the flow and pressure required for the pumps to operate. Exception: Two connections to the same main shall be permitted provided that the main is valved such that an interruption can be isolated so that the water supply will continue without interruption through not fewer than one of the connections."

Enacted by Chapter 43, 2020 General Session

15A-2a-202 Amendments to Chapter 5 of IBC.

(1) In IBC, Table 504.3, is deleted and replaced with the following: "Table 504.3 ALLOWABLE BUILDING HEIGHT IN FEET ABOVE GRADE PLANE

OCCUPANCY CLASSIFICATION	TYPE OF CONSTRUCTION													
	SEE FOOTNOTES	TYPE I		TYPE II		TYPE III		TYPE IV				TYPE V	
		A	B	A	B	A	B	A	B	C	HT	A	B
A, B, E, F, M, S, U	NS[b]	UL	160	65	55	65	55	65	65	65	65	50	40
	S	UL	180	85	75	85	75	180	120	85	85	70	60
H-1, H-2, H-3, H-5	NS[c, d]	UL	160	65	55	65	55	120	90	65	65	50	40
	S												
H-4	NS[c, d]	UL	160	65	55	65	55	65	65	65	65	50	40
	S	UL	180	85	75	85	75	140	100	85	85	70	60
I-1 Condition 1, I-3	NS[d, e]	UL	160	65	55	65	55	65	65	65	65	50	40
	S	UL	180	85	75	85	75	180	120	85	85	70	60
I-1 Condition 2, I-2	NS[d, e, f]	UL	160	65	55	65	55	65	65	65	65	50	40
	S	UL	180	85									
I-4	NS[d, g]	UL	160	65	55	65	55	65	65	65	65	50	40
	S	UL	180	85	75	85	75	180	120	85	85	70	60
R[h]	NS[d]	UL	160	65	55	65	55	65	65	65	65	50	40
	S13D	60	60	60	60	60	60	60	60	60	60	50	40
	S13R	60	60	60	60	60	60	60	60	60	60	60	60
	S	UL	180	85	75	85	75	180	120	85	85	70	60

For SI: 1 foot = 304.8 mm

UL = Unlimited; NS = Buildings not equipped throughout with an automatic sprinkler system; S = Buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1; S13R = Buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.2; S13D = Buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.3.

a. See Chapters 4 and 5 for specific exceptions to the allowable height in this chapter.

b. See Section 903.2 for the minimum thresholds for protection by an automatic sprinkler system for specific occupancies.

c. New Group H occupancies are required to be protected by an automatic sprinkler system in accordance with Section 903.2.5.

d. The NS value is only for use in evaluation of existing building area in accordance with the IEBC.

e. New Group I-1 and I-3 occupancies are required to be protected by an automatic sprinkler system in accordance with Section 903.2.6. For new Group I-1 occupancies, Condition 1, see Exception 1 of Section 903.2.6.

f. New and existing Group I-2 occupancies are required to be protected by an automatic sprinkler system in accordance with Section 903.2.6 and Section 1103.5 of the International Fire Code.

g. New Group I-4 occupancies see Exceptions 2 and 3 of Section 903.2.6.

h. New Group R occupancies are required to be protected by an automatic sprinkler system in accordance with Section 903.2.8."

(2) In IBC, Table 504.4, "Allowable Number of Stories Above Grade Plane a, b" delete Type IV and replace it with the following, in relation to the occupancy classification and footnotes as indicated:

OCCUPANCY CLASSIFICATION	TYPE OF CONSTRUCTION				
	SEE FOOTNOTES	TYPE IV			
		A	B	C	HT
A-1	NS	3	3	3	3
	S	9	6	4	4
A-2	NS	3	3	3	3
	S	18	12	6	4
A-3	NS	3	3	3	3
	S	18	12	6	4
A-4	NS	3	3	3	3
	S	18	12	6	4
A-5	NS	1	1	1	UL
	S	UL	UL	UL	UL
B	NS	5	5	5	5
	S	18	12	9	6

E	NS	3	3	3	3
	S	9	6	4	4
F-1	NS	3	3	3	4
	S	10	7	5	5
F-2	NS	5	5	5	5
	S	12	8	6	6
H-1	NS[c, d]	NP	NP	NP	1
	S	1	1	1	
H-2	NS[c, d]	1	1	1	2
	S	2	2	2	
H-3	NS[c, d]	3	3	3	4
	S	4	4	4	
H-4	NS[c, d]	5	5	5	5
	S	8	7	6	6

H-5	NS[c, d]	2	2	2	3
	S	3	3	3	
I-1 Condition 1	NS[d, e]	4	4	4	4
	S	10	7	5	5
I-1 Condition 2	NS[d, e]	3	3	3	4
	S	10	6	4	
I-2	NS[d, f]	NP	NP	NP	1
	S	7	5	1	
I-3	NS[d, e]	2	2	2	2
	S	7	5	3	3
I-4	NS[d, g]	3	3	3	3

	S	9	6	4	4
M	NS	4	4	4	4
	S	12	8	6	5
R-1[h]	NS[d]	4	4	4	4
	S13R				
	S	18	12	8	5
R-2[h]	NS[d]	4	4	4	4
	S13R				
	S	18	12	8	5
R-3[h]	NS[d]	4	4	4	4
	S13D				
	S13R				
	S	18	12	5	5
R-4[h]	NS[d]	4	4	4	4
	S13D				
	S13R				
	S	18	12	5	5
S-1	NS	4	4	4	4
	S	10	7	5	5
S-2	NS	4	4	4	4
	S	12	8	5	5
U	NS	4	4	4	4
	S	9	6	5	5

UL = Unlimited; NP = Not Permitted; NS = Buildings not equipped throughout with an automatic sprinkler system; S = Buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1; S13R = Buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.2; S13D = Buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.3.

a. See Chapters 4 and 5 for specific exceptions to the allowable height in this chapter.

b. See Section 903.2 for the minimum thresholds for protection by an automatic sprinkler system for specific occupancies.

c. New Group H occupancies are required to be protected by an automatic sprinkler system in accordance with Section 903.2.5.

d. The NS value is only for use in evaluation of existing building height in accordance with the IEBC.

e. New Group I-1 and I-3 occupancies are required to be protected by an automatic sprinkler system in accordance with Section 903.2.6. For new Group I-1 occupancies, Condition 1, see Exception 1 of Section 903.2.6.

f. New and existing Group I-2 occupancies are required to be protected by an automatic sprinkler system in accordance with Sections 903.2.6 and 1103.5 of the International Fire Code.

g. For new Group I-4 occupancies, see Exceptions 2 and 3 of Section 903.2.6.

h. New Group R occupancies are required to be protected by an automatic sprinkler system in accordance with Section 903.2.8."

(3) In IBC, Table 506.2, "Allowable Area Factor (At = NS, S1, S13R, S13D or SM, as applicable) in Square Feet a, b" delete Type IV and replace it with the following, in relation to the occupancy classification and footnotes as indicated:

"OCCUPANCY CLASSIFICATION	SEE FOOTNOTES	TYPE OF CONSTRUCTI IN			
		TYPE IV			
		A	B	C	HT
A-1	NS	45,000	30,000	18,750	15,000
	S1	180,000	120,000	75,000	60,000
	SM	135,000	90,000	56,250	45,000
A-2	NS	45,000	30,000	18,750	15,000
	S1	180,000	120,000	75,000	60,000
	SM	135,000	90,000	56,250	45,000
A-3	NS	45,000	30,000	18,750	15,000
	S1	180,000	120,000	75,000	60,000
	SM	135,000	90,000	56,250	45,000
A-4	NS	45,000	30,000	18,750	15,000
	S1	180,000	120,000	75,000	60,000
	SM	135,000	90,000	56,250	45,000

A-5	NS	UL	UL	UL	UL
	S1				
	SM				
B	NS	108,000	72,000	45,000	36,000
	S1	432,000	288,000	180,000	144,000
	SM	324,000	216,000	135,000	108,000
E	NS	76,500	51,000	31,875	25,500
	S1	306,000	204,000	127,500	102,000
	SM	229,500	153,000	95,625	76,500
F-1	NS	100,500	67,000	41,875	33,500
	S1	402,000	268,000	167,500	134,000
	SM	301,500	201,000	125,625	100,500
F-2	NS	151,500	101,000	63,125	50,500
	S1	606,000	404,000	252,500	202,000
	SM	454,500	303,000	189,375	151,500
H-1	NS[c]	10,500	10,500	10,500	10,500
	S1				
H-2	NS[c]	10,500	10,500	10,500	10,500
	S1				
	SM				
H-3	NS[c]	25,500	25,500	25,500	25,500
	S1				
	SM				
H-4	NS[c, d]	72,000	54,000	40,500	36,000

	S1	288,000	216,000	162,000	144,000
	SM	216,000	162,000	121,500	108,000
H-5	NS[c, d]	72,000	54,000	40,500	36,000
	S1	288,000	216,000	162,000	144,000

	SM	216,000	162,000	121,500	108,000
I-1	NS[d, e]	54,000	36,000	18,000	18,000
	S1	216,000	144,000	72,000	72,000
	SM	162,000	108,000	54,000	54,000
I-2	NS[d, f]	36,000	24,000	12,000	12,000
	S1	144,000	96,000	48,000	48,000
	SM	108,000	72,000	36,000	36,000
I-3	NS[d, e]	36,000	24,000	12,000	12,000
	S1	144,000	96,000	48,000	48,000
	SM	108,000	72,000	36,000	36,000
I-4	NS[d, g]	76,500	51,000	25,500	25,500
	S1	306,000	204,000	102,000	102,000
	SM	229,000	153,000	76,500	76,500
M	NS	61,500	41,000	25,625	20,500
	S1	246,000	164,000	102,500	82,000
	SM	184,500	123,000	76,875	61,500
R-1[h]	NS[d]	61,500	41,000	25,625	20,500
	S13R				
	S1	246,000	164,000	102,500	82,000

	SM	184,500	123,000	76,875	61,500
R-2[h]	NS[d]	61,500	41,000	25,625	20,500
	S13R				
	S1	246,000	164,000	102,500	82,000
	SM	184,500	123,000	76,875	61,500
R-3[h]	NS[d]	UL	UL	UL	UL
	S13D				
	S13R				
	S1				
	SM				
R-4[h]	NS[d]	61,500	41,000	25,625	20,500
	S13D				
	S13R				
	S1	246,000	164,000	102,500	82,000
	SM	184,500	123,000	76,875	61,500
S-1	NS	76,500	51,000	31,875	25,500
	S1	306,000	204,000	127,500	102,000
	SM	229,500	153,000	95,625	76,500
S-2	NS	115,500	77,000	48,125	38,500
	S1	462,000	308,000	192,500	154,000
	SM	346,500	308,000	144,375	115,500
U	NS[i]	54,000	36,000	22,500	18,000
	S1	216,000	144,000	90,000	72,000
	SM	162,000	108,000	67,500	54,000

~~For SI: 1 square foot = 0.0929 m2.~~

~~UL = Unlimited; NP = Not Permitted; NS = Buildings not equipped throughout with an automatic sprinkler system; S1 = Buildings a maximum of one story above grade plane equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1; SM = Buildings two or more stories above grade plane equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1; S13R = Buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.2; S13D = Buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.3.~~

~~a. See Chapters 4 and 5 for specific exceptions to the allowable height in this chapter.~~

~~b. See Section 903.2 for the minimum thresholds for protection by an automatic sprinkler system for specific occupancies.~~

~~c. New Group H occupancies are required to be protected by an automatic sprinkler system in accordance with Section 903.2.5.~~

~~d. The NS value is only for use in evaluation of existing building area in accordance with the IEBC.~~

~~e. New Group I-1 and I-3 occupancies are required to be protected by an automatic sprinkler system in accordance with Section 903.2.6. For new Group I-1 occupancies, Condition 1, see Exception 1 of Section 903.2.6.~~

~~f. New and existing Group I-2 occupancies are required to be protected by an automatic sprinkler system in accordance with Section 903.2.6 and Section 1103.5 of the International Fire Code.~~

~~g. For New Group I-4 occupancies see Exceptions 2 and 3 of Section 903.2.6.~~

~~h. New Group R occupancies are required to be protected by an automatic sprinkler system in accordance with Section 903.2.8.~~

~~i. The maximum allowable area for a single-story non-sprinklered Group U greenhouse is permitted to be 9,000 square feet, or the allowable area shall be permitted to comply with Table C102.1 of Appendix C."~~

(4) ~~In IBC, Section 508.4.4 is deleted and replaced with the following: "508.4.4 Separation. Individual occupancies shall be separated from adjacent occupancies in accordance with Table 508.4."~~

(5) ~~In IBC, Section 508.4.4.1 is deleted and replaced with the following: "508.4.4.1 Construction. Required separations shall be fire barriers constructed in accordance with Section 707 or horizontal assemblies constructed in accordance with Section 711, or both, so as to completely separate adjacent occupancies. Mass timber elements serving as fire barriers or horizontal assemblies to separate occupancies in Type IV-B or IV-C construction shall be separated from the interior of the building with an approved thermal barrier consisting of a minimum of 1/2 inch (12.7 mm) gypsum board or a material that is tested in accordance with and meets the acceptance criteria of both the Temperature Transmission Fire Test and the Integrity Fire Test of NFPA 275."~~

(6) ~~In IBC, Section 509, a new section is added as follows: "509.4.1.1 Type IV-B and IV-C construction. Where Table 509 specifies a fire-resistance-rated separation, mass timber elements serving as fire barriers or a horizontal assembly in Type IV-B or IV-C construction shall be separated from the interior of the incidental use with an approved thermal barrier consisting of a minimum of 1/2 inch (12.7 mm) gypsum board or a material that is tested in~~

accordance with and meets the acceptance criteria of both the Temperature Transmission Fire Test and the Integrity Fire Test of NFPA 275."

Enacted by Chapter 43, 2020 General Session

15A-2a-203 Amendments to Chapter 6 of IBC.

(1) In IBC, Table 601 is deleted and replaced with the following:

"TABLE 601 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS)

BUILDING ELEMENT	TYPE I		TYPE II		TYPE III		TYPE IV				TYPE V	
	A	B	A	B	A	B	A	B	C	HT	A	B
Primary structural frame[f] (see Section 202)	3[a, b]	2[a, b]	1[b]	0	1[b]	0	3[a]	2[a]	2[a]	HT	1[b]	0
Bearing walls Exterior[e, f] Interior	3 3[a]	2 2[a]	1 1	0 0	2 1	2 0	3 3	2 2	2 2	2 1/ HT	1 1	0 0
Nonbearing walls and partitions Exterior	See Table 602											
Nonbearing walls and partitions Interior[d]	0	0	0	0	0	0	0	0	0	See Secti 2304 1.2	0 1	0
Floor construction and associated secondary members (see Section 202)	2	2	1	0	1	0	2	2	2	HT	1	0
Roof construction and associated secondary members (see Section 202)	1 1/2 [b]	1[b, c]	1[b, c]	0[c]	1[b, c]	0	1 1/2	1	1	HT	1[b, c]	0

For SI: 1 foot = 304.8 mm.

a. Roof supports: Fire-resistance ratings of primary structural frame and bearing walls are permitted to be reduced by 1 hour where supporting a roof only.

b. Except in Group F-1, H, M and S-1 occupancies, fire protection of structural members in roof construction shall not be required, including protection of primary structural frame members, roof framing and decking where every part of the roof construction is 20 feet or more above any floor immediately below. Fire-retardant-treated wood members shall be allowed to be used for such unprotected members.

c. ~~In all occupancies, heavy timber complying with Section 2304.11 shall be allowed where a 1-hour or less fire-resistance rating is required.~~
d. ~~Not less than the fire-resistance rating required by other sections of this code.~~
e. ~~Not less than the fire-resistance rating based on fire separation distance (see Table602).~~
f. ~~Not less than the fire-resistance rating as referenced in Section 704.10."~~

(2) In IBC, Table 602 is ~~deleted and replaced with the following~~ added as follows:
"TABLE 602 FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE a, d, g

Fire Separation Distance = X (feet)	TYPE OF CONSTRUCTION	OCCUPANCY GROUP He	OCCUPANCY GROUP F-1, M, S-1f	OCCUPANCY GROUP A, B, F-2, I, R[i], S-2, U[h]
< 5b	All	3	2	1
5 # X < 10	IA, IVA Others	3 2	2 1	11
10 # X < 30	IA, IB, IVA, IVB IIB, VB Others	2 1 1	1 0 1	1[c] 0 1[c]
X # 30	All	0	0	0

For SI: 1 foot = 304.8 mm.

a. Load-bearing exterior walls shall also comply with the fire-resistance rating requirements of Table 601.
b. See Section 706.1.1 for party walls.
c. Open parking garages complying with Section 406 shall not be required to have a fire-resistance rating.
d. The fire-resistance rating of an exterior wall is determined based upon the fire separation distance of the exterior wall and the story in which the wall is located. e. For special requirements for Group H occupancies, see Section 415.6.
f. For special requirements for Group S aircraft hangars, see Section 412.3.1.
g. Where Table 705.8 permits nonbearing exterior walls with unlimited area of unprotected openings, the required fire-resistance rating for the exterior walls is 0 hours.
h. For a building containing only a Group U occupancy private garage or carport, the exterior wall shall not be required to have a fire-resistance rating where the fire separation distance is 5 feet (1523 mm) or greater.
i. For a Group R-3 building of Type II-B or Type V-B construction, the exterior wall shall not be required to have a fire-resistance rating where the fire separation distance is 5 feet (1523 mm) or greater."

(3) ~~In IBC, Section 602.4 is deleted and replaced with the following: "602.4 Type IV. Type IV construction is that type of construction in which the building elements are mass timber or non-combustible materials and have fire-resistance ratings in accordance with Table 601. Mass timber elements shall meet the fire-resistance rating requirements of this section based on either the fire-resistance rating of the non-combustible protection, the mass timber, or a~~

~~combination of both and shall be determined in accordance with Section 703.2 or 703.3. The minimum dimensions and permitted materials for building elements shall comply with the provisions of this section and Section 2304.11. Mass timber elements of Types IV-A, IV-B and IV-C construction shall be protected with non-combustible protection applied directly to the mass timber in accordance with Sections 602.4.1 through 602.4.3. The time assigned to the non-combustible protection shall be determined in accordance with Section 703.8 and comply with Section 722.7.~~

~~Cross-laminated timber shall be labeled as conforming to PRG 320-18 as referenced in Section 2303.1.4.~~

~~Exterior load-bearing walls and non load-bearing walls shall be mass timber construction, or shall be of non-combustible construction.~~

~~Exception: Exterior load-bearing walls and non load-bearing walls of Type IV-HT Construction in accordance with Section 602.4.4.~~

~~The interior building elements, including non load-bearing walls and partitions, shall be of mass timber construction or of non-combustible construction.~~

~~Exception: Interior building elements and non load-bearing walls and partitions of Type IVHT Construction in accordance with Section 602.4.4.~~

~~Combustible concealed spaces are not permitted except as otherwise indicated in Sections 602.4.1 through 602.4.4. Combustible stud spaces within light frame walls of Type IVHT construction shall not be considered concealed spaces, but shall comply with Section 718.~~

~~In buildings of Type IV-A, B, and C, construction with an occupied floor located more than 75 feet above the lowest level of fire department access, up to and including 12 stories or 180 feet above grade plane, mass timber interior exit and elevator hoistway enclosures shall be protected in accordance with Section 602.4.1.2. In buildings greater than 12 stories or 180 feet above grade plane, interior exit and elevator hoistway enclosures shall be constructed of noncombustible materials."~~

(4) ~~In IBC, Section 602.4.1 is deleted and replaced with the following: "602.4.1 Type IV-A. Building elements in Type IV-A construction shall be protected in accordance with Sections 602.4.1.1 through 602.4.1.6. The required fire-resistance rating of non-combustible elements and protected mass timber elements shall be determined in accordance with Section 703.2 or Section 703.3."~~

(5) ~~In IBC, Section 602, a new section is added as follows: "602.4.1.1 Exterior Protection. The outside face of exterior walls of mass timber construction shall be protected with noncombustible protection with a minimum assigned time of 40 minutes as determined in Section 722.7.1. All components of the exterior wall covering shall be on non-combustible material~~

~~except water resistive barriers having a peak heat release rate of less than 150 kW/m2, a total heat release of less than 20 MJ/m2 and an effective heat of combustion of less than 18 MJ/kg as determined in accordance with ASTM E1354 and having a flame spread index of 25 or less and a smoke-developed index of 450 or less as determined in accordance with ASTM E84 or UL723. The ASTM E1354 test shall be conducted on specimens at the thickness intended for use, in the horizontal orientation and at an incident radiant heat flux of 50 kW/m2."~~

(6) ~~In IBC, Section 602, a new section is added as follows: "602.4.1.2 Interior Protection. Interior faces of all mass timber elements, including the inside faces of exterior mass timber walls and mass timber roofs, shall be protected with materials complying with Section 703.5."~~

(7) In IBC, Section 602, a new section is added as follows: "602.4.1.2.1 Protection Time. Noncombustible protection shall contribute a time equal to or greater than times assigned in Table 722.7.1(1), but not less than 80 minutes. The use of materials and their respective protection contributions listed in Table 722.7.1(2) shall be permitted to be used for compliance with Section 722.7.1."

(8) In IBC, Section 602, a new section is added as follows: "602.4.1.3 Floors. The floor assembly shall contain a non-combustible material not less than one inch in thickness above the mass timber. Floor finishes in accordance with Section 804 shall be permitted on top of the noncombustible material. The underside of floor assemblies shall be protected in accordance with Section 602.4.1.2."

(9) In IBC, Section 602, a new section is added as follows: "602.4.1.4 Roofs. The interior surfaces of roof assemblies shall be protected in accordance with Section 602.4.1.2. Roof coverings in accordance with Chapter 15 shall be permitted on the outside surface of the roof assembly."

(10) In IBC, Section 602, a new section is added as follows: "602.4.1.5 Concealed spaces. Concealed spaces shall not contain combustibles other than electrical, mechanical, fire protection, or plumbing materials and equipment permitted in plenums in accordance with Section 602 of the IMC, and shall comply with all applicable provisions of Section 718. Combustible construction forming concealed spaces shall be protected in accordance with Section 602.4.1.2."

(11) In IBC, Section 602, a new section is added as follows: "602.4.1.6 Shafts. Shafts shall be permitted in accordance with Sections 713 and 718. Both the shaft side and room side of mass timber elements shall be protected in accordance with Section 602.4.1.2."

(12) In IBC, Section 602.4.2 is deleted and replaced with the following: "602.4.2 Type IV-B. Building elements in Type IV-B construction shall be protected in accordance with Sections 602.4.2.1 through 602.4.2.6. The required fire resistance rating of non-combustible elements or mass timber elements shall be determined in accordance with Section 703.2 or Section 703.3."

(13) In IBC, Section 602, a new section is added as follows: "602.4.2.1 Exterior protection. The outside face of exterior walls of mass timber construction shall be protected with noncombustible protection with a minimum assigned time of 40 minutes as determined in Section 722.7.1. All components of the exterior wall covering shall be of non-combustible material except water resistive barriers having a peak heat release rate of less than 150 kW/m2, a total heat release of less than 20 MJ/m2 and an effective heat of combustion of less than 18MJ/kg as determined in accordance with ASTM E1354, and having a flame spread index of 25 or less and a smoke developed index of 450 or less as determined in accordance with ASTM E84 or UL 723. The ASTM E1354 test shall be conducted on specimens at the thickness intended for use, in the horizontal orientation and at an incident radiant heat flux of 50 kW/m2."

(14) In IBC, Section 602, a new section is added as follows: "602.4.2.2 Interior protection. Interior faces of all mass timber elements, including the inside face of exterior mass timber walls and mass timber roofs, shall be protected, as required by this section, with materials complying with Section 703.5."

(15) In IBC, Section 602, a new section is added as follows: "602.4.2.2.1 Protection time. Noncombustible protection shall contribute a time equal to or greater than times assigned in Table 722.7.1(1), but not less than 80 minutes. The use of materials and their respective protection contributions listed in Table 722.7.1(2) shall be permitted to be used for compliance with Section 722.7.1."

(16) In IBC, Section 602, a new section is added as follows: "602.4.2.2.2 Protected area. All interior faces of all mass timber elements shall be protected in accordance with Section 602.4.2.2.1, including the inside face of exterior mass timber walls and mass timber roofs. Exceptions: Unprotected portions of mass timber ceilings and walls complying with Section 602.4.2.2.4 and the following:

1. Unprotected portions of mass timber:

(a) ceilings, including attached beams, shall be permitted and shall be limited to an area equal to20% of the floor area in any dwelling unit or fire area;

(b) walls, including attached columns, shall be permitted and shall be limited to an area equal to40% of the floor area in any dwelling unit or fire area; or

(c) walls and ceilings, including attached columns and beams, in any dwelling unit or fire area shall be permitted in accordance with Section 602.4.2.2.3.

2. Mass timber columns and beams which are not an integral portion of walls or ceilings, respectively, shall be permitted to be unprotected without restriction of either aggregate area or separation from one another."

(17) In IBC, Section 602, a new section is added as follows: "602.4.2.2.3 Mixed unprotected areas. In each dwelling unit or fire area, where both portions of ceilings and portions of walls are unprotected, the total allowable unprotected area shall be determined in accordance with Equation 6-1.

(Utc/Ua c) + (Utw/Ua w) 1 (Equation 6-1) where:

Utc = Total unprotected mass timber ceiling areas

Ua c = Allowable unprotected mass timber ceiling area conforming to Section 602.4.2.2.2, Exception 1

Utw = Total unprotected mass timber wall areas

Ua w = Allowable unprotected mass timber wall area conforming to Section 602.4.2.2.2, Exception 2."

(18) In IBC, Section 602, a new section is added as follows: "602.4.2.2.4 Separation distance between unprotected mass timber elements. In each dwelling unit or fire area, unprotected portions of mass timber walls and ceilings shall be not less than 15 feet from unprotected portions of other walls and ceilings, measured horizontally along the ceiling and from other unprotected portions of walls measured horizontally along the floor."

(19) In IBC, Section 602, a new section is added as follows: "602.4.2.3 Floors. The floor assembly shall contain a non-combustible material not less than one inch in thickness above the mass timber. Floor finishes in accordance with Section 804 shall be permitted on top of the noncombustible material. The underside of floor assemblies shall be protected in accordance with Section 602.4.1.2."

(20) In IBC, Section 602, a new section is added as follows: "602.4.2.4 Roofs. The interior surfaces of roof assemblies shall be protected in accordance with Section 602.4.2.2 except, in non-occupiable spaces, they shall be treated as a concealed space with no portion left unprotected. Roof coverings in accordance with Chapter 15 shall be permitted on the outside surface of the roof assembly."

(21) In IBC, Section 602, a new section is added as follows: "602.4.2.5 Concealed spaces. Concealed spaces shall not contain combustibles other than electrical, mechanical, fire protection, or plumbing materials and equipment permitted in plenums in accordance with Section 602 of the IMC, and shall comply with all applicable provisions of Section 718.

~~Combustible construction forming concealed spaces shall be protected in accordance with Section 602.4.1.2."~~

(22) ~~In IBC, Section 602, a new section is added as follows: "602.4.2.6 Shafts. Shafts shall be permitted in accordance with Section 713 and Section 718. Both the shaft side and room side of mass timber elements shall be protected in accordance with Section 602.4.1.2."~~

(23) ~~In IBC, Section 602.4.3 is deleted and replaced with the following: "602.4.3 Type IV-C. Building elements in Type IV-C construction shall be protected in accordance with Sections 602.4.3.1 through 602.4.3.6. The required fire-resistance rating of building elements shall be determined in accordance with Section 703.2 or Section 703.3."~~

(24) ~~In IBC, Section 602, a new section is added as follows: "602.4.3.1 Exterior Protection. The exterior side of walls of combustible construction shall be protected with non-combustible protection with a minimum assigned time of 40 minutes as determined in Section 722.7.1. All components of the exterior wall covering shall be of non-combustible material except water resistive barriers having a peak heat release rate of less than 150 kW/m2, a total heat release of less than 20 MJ/m2 and an effective heat of combustion of less than 18MJ/kg as determined in accordance with ASTM E1354 and having a flame spread index of 25 or less and a smoke developed index of 450 or less as determined in accordance with ASTM E84 or UL723. The ASTM E1354 test shall be conducted on specimens at the thickness intended for use, in the horizontal orientation and at an incident radiant heat flux of 50 kW/m2."~~

(25) ~~In IBC, Section 602, a new section is added as follows: "602.4.3.2 Interior protection. Mass timber elements are permitted to be unprotected."~~

(26) ~~In IBC, Section 602, a new section is added as follows: "602.4.3.3 Floors. Floor finishes in accordance with Section 804 shall be permitted on top of the floor construction."~~

(27) ~~In IBC, Section 602, a new section is added as follows: "602.4.3.4 Roofs. Roof coverings in accordance with Chapter 15 shall be permitted on the outside surface of the roof assembly."~~

(28) ~~In IBC, Section 602, a new section is added as follows: "602.4.3.5 Concealed spaces. Concealed spaces shall not contain combustibles other than electrical, mechanical, fire protection, or plumbing materials and equipment permitted in plenums in accordance with Section 602 of the IMC, and shall comply with all applicable provisions of Section 718. Combustible construction forming concealed spaces shall be protected with non-combustible protection with a minimum assigned time of 40 minutes as determined in Section 722.7.1."~~

(29) ~~In IBC, Section 602, a new section is added as follows: "602.4.3.6 Shafts. Shafts shall be permitted in accordance with Section 713 and Section 718. Shafts and elevator hoistway and interior exit stairway enclosures shall be protected with non-combustible protection with a minimum assigned time of 40 minutes as determined in Section 722.7.1, on both the inside of the shaft and the outside of the shaft."~~

(30) ~~In IBC, Section 602, a new section is added as follows: "602.4.4 Type IV-HT. Type IV construction (Heavy Timber, HT) is that type of construction in which the exterior walls are of non-combustible materials and the interior building elements are of solid wood, laminated heavy timber or structural composite lumber (SCL), without concealed spaces. The minimum dimensions for permitted materials including solid timber, glued-laminated timber, structural composite lumber (SCL) and cross laminated timber (CLT) and details of Type IV construction shall comply with the provisions of this section and Section 2304.11. Exterior walls complying with Section 602.4.4.1 or 602.4.4.2 shall be permitted. Interior walls and partitions not less than one-hour fire-resistance rating or heavy timber conforming with Section 2304.11.2.2 shall be permitted."~~

(31) In IBC, Section 602, a new section is added as follows: "602.4.4.1 Fire-retardant-treated wood in exterior walls. Fire-retardant-treated wood framing and sheathing complying with Section 2303.2 shall be permitted within exterior wall assemblies not less than 6 inches (152 mm) in thickness with a two-hour rating or less."

(32) In IBC, Section 602, a new section is added as follows: "602.4.4.2 Cross-laminated timber in exterior walls. Cross-laminated timber complying with Section 2303.1.4 shall be permitted within exterior wall assemblies not less than 6 inches (152 mm) in thickness with a two-hour rating or less, provided the exterior surface of the cross-laminated timber is protected by one the following:

1. fire-retardant-treated wood sheathing complying with Section 2303.2 and not less than15/32 inch (12 mm) thick;
2. gypsum board not less than 1/2 inch (12.7 mm) thick; or
3. a non-combustible material."

(33) In IBC, Section 602, a new section is added as follows: "602.4.4.3 Exterior structural members. Where a horizontal separation of 20 feet (6096 mm) or more is provided, wood columns and arches conforming to heavy timber sizes complying with Section 2304.11 shall be permitted to be used externally."

Enacted by Chapter 43, 2020 General Session

15A-2a-204 Amendments to Chapter 7 of IBC.

(1) In IBC, Section 703, a new section is added as follows: "703.8 Determination of noncombustible protection time contribution. The time, in minutes, contributed to the fire-resistance rating by the non-combustible protection of mass timber building elements, components, or assemblies, shall be established through a comparison of assemblies tested using procedures set forth in ASTM E119 or UL263. The test assemblies shall be identical in construction, loading, and materials, other than the non-combustible protection. The two test assemblies shall be tested to the same criteria of structural failure.

(a) Test Assembly 1 shall be without protection.

(b) Test Assembly 2 shall include the representative non-combustible protection. The protection shall be fully defined in terms of configuration details, attachment details, joint sealing details, accessories and all other relevant details.

The non-combustible protection time contribution shall be determined by subtracting the fire-resistance time, in minutes, of Test Assembly 1 from the fire-resistance time, in minutes, of Test Assembly 2."

(2) In IBC, Section 703, a new section is added as follows: "703.9 Sealing of adjacent mass timber elements. In buildings of Type IV-A, IV-B, and IV-C construction, sealant or adhesive shall be provided to resist the passage of air in the following locations:

1. At abutting edges and intersections of mass timber building elements required to be fire-resistance-rated.

2. At abutting intersections of mass timber building elements and building elements of other materials where both are required to be fire-resistance-rated.

Sealants shall meet the requirements of ASTM C920. Adhesives shall meet the requirements of ASTM D3498.

Exception: Sealants or adhesives need not be provided where they are not a required component of a tested fire-resistance-rated assembly."

(3) In IBC, Section 718.2.1 is deleted and replaced with the following: "718.2.1 Fire blocking materials. Fire blocking shall consist of the following materials:

1. Two-inch (51 mm) nominal lumber.
2. Two thicknesses of 1-inch (25 mm) nominal lumber with broken lap joints.
3. One thickness of 0.719-inch (18.3 mm) wood structural panels with joints backed by 0.719-inch (18.3 mm) wood structural panels.
4. One thickness of 0.75-inch (19.1 mm) particleboard with joints backed by 0.75-inch (19mm) particleboard.
5. 1/2 inch (12.7 mm) gypsum board.
6. 1/4 inch (6.4 mm) cement-based millboard.
7. Batts or blankets of mineral wool, mineral fiber or other approved materials installed in such a manner as to be securely retained in place.
8. Cellulose insulation installed as tested for the specific application.
9. Mass timber complying with Section 2304.11."

(4) In IBC, Section 722, a new section is added as follows: "722.7 Fire-Resistance rating of mass timber. The required fire resistance of mass timber elements in Section 602.4 shall be determined in accordance with Section 703.2 or Section 703.3. The fire-resistance rating of building elements shall be as required in Tables 601 and 602 and as specified elsewhere in this code. The fire-resistance rating of the mass timber elements shall consist of the fire-resistance of the unprotected element added to the protection time of the non-combustible protection."

(5) In IBC, Section 722, a new section is added as follows: "722.7.1 Minimum required protection. Where required by Sections 602.4.1 through 602.4.3, non-combustible protection shall be provided for mass timber building elements in accordance with Table 722.7.1(1). The rating, in minutes, contributed by the non-combustible protection of mass timber building elements, components, or assemblies, shall be established in accordance with Section 703.8. The protection contributions indicated in Table 722.7.1(2) and Section 722.7.2 shall be deemed to comply with this requirement when installed and fastened in accordance with Section 722.7.2."

(6) In IBC, Section 722, a new table is added as follows: "TABLE 722.7.1(1)
PROTECTION REQUIRED FROM NON-COMBUSTIBLE COVERING MATERIAL

Required Fire Resistance Rating of Building Element per Tables 601 and 602 (hours)	Minimum Protection Required from Noncombustible
1	40
2	80
3 or more	120"

(7) In IBC, Section 722, a new table is added as follows: "TABLE 722.7.1(2)
PROTECTION PROVIDED BY NON-COMBUSTIBLE COVERING MATERIAL

Non-combustible Protection	Protection	
	(minutes)	

1/2 inch Type X Gypsum	
	25
5 /8 inch Type X Gypsum	
Board	40"

(8) In IBC, Section 722, a new section is added as follows: "722.7.2 Installation of gypsum board non-combustible protection. Gypsum board complying with Table 722.7.1(2) shall be installed in accordance with this section."

(9) In IBC, Section 722, a new section is added as follows: "722.7.2.1 Interior surfaces. Layers of Type X gypsum board serving as non-combustible protection for interior surfaces of wall and ceiling assemblies determined in accordance with Table 722.7.1(1) shall be installed in accordance with the following:

1. Each layer shall be attached with Type S drywall screws of sufficient length to penetrate the mass timber at least 1 inch when driven flush with the paper surface of the gypsum board.

Exception: The third layer, where determined necessary by Section 722.7, shall be permitted to be attached with 1 inch #6 Type S drywall screws to furring channels in accordance with ASTM C645.

2. Screws for attaching the base layer shall be 12 inches on center in both directions.

3. Screws for each layer after the base layer shall be 12 inches on center in both directions and offset from the screws of the previous layers by 4 inches in both directions. 4. All panel edges of any layer shall be offset 18 inches from those of the previous layer. 5. All panel edges shall be attached with screws sized and offset as in items 1 through 4 above and placed at least 1 inch but not more than 2 inches from the panel edge.

6. All panels installed at wall-to-ceiling intersections shall be installed such that ceiling panels are installed first and the wall panels are installed after the ceiling panel has been installed and is fitted tight to the ceiling panel. Where multiple layers are required, each layer shall repeat this process.

7. All panels installed at a wall-to-wall intersection shall be installed such that the panels covering an exterior wall or a wall with a greater fire resistance rating shall be installed first and the panels covering the other wall shall be fitted tight to the panel covering the first wall. Where multiple layers are required, each layer shall repeat this process.

8. Panel edges of the face layer shall be taped and finished with joint compound. Fastener heads shall be covered with joint compound.

9. Panel edges protecting mass timber elements adjacent to unprotected mass timber elements in accordance with Section 602.4.2.2 shall be covered with 1-1/4 inch metal corner bead and finished with joint compound."

(10) In IBC, Section 722, a new section is added as follows: "722.7.2.2 Exterior surfaces. Layers of Type X gypsum board serving as non-combustible protection for the outside of the exterior heavy timber walls determined in accordance with Table 722.7.1(1) shall be fastened 12 inches on center each way and 6 inches on center at all joints or ends. All panel edges shall be attached with fasteners located at least 1 inch but not more than 2 inches from the panel edge.

Fasteners shall comply with one of the following:

1. Galvanized nails of minimum 12 guage with a 7/16 inch head of sufficient length to penetrate the mass timber a minimum of 1 inch.
2. Screws which comply with ASTM C1002 (Type S, Type W, or Type G) of sufficient length to penetrate the mass timber a minimum of 1 inch."

(11) In IBC, Section 1705, a new section is added as follows: "1705.19 Sealing of mass timber. Periodic special inspections of sealants or adhesives shall be conducted where sealant or adhesive required by Section 703.9 is applied to mass timber building elements as designated in the approved construction documents."

(12) In IBC, Section 3102.3 is deleted and replaced with the following: "3102.3 Type of construction. Non-combustible membrane structures shall be classified as Type IIB construction. Non-combustible frame or cable-supported structures covered by an approved membrane in accordance with Section 3102.3.1 shall be classified as Type IIB construction. Heavy timber frame-supported structures covered by an approved membrane in accordance with Section 3102.3.1 shall be classified as Type IV-HT construction. Other membrane structures shall be classified as Type V construction.

Exception: Plastic less than 30 feet (9144 mm) above any floor used in greenhouses, where occupancy by the general public is not authorized, and for aquaculture pond covers is not required to meet the fire propagation performance criteria of Test Method 1 or Test Method 2, as appropriate, of NFPA 701."

(13) In IBC, Section 3102.6.1.1 is deleted and replaced with the following: "3102.6.1.1 Membrane. A membrane meeting the fire propagation performance criteria of Test Method 1 or Test Method 2, as appropriate, of NFPA 701 shall be permitted to be used as the roof or as a skylight on buildings of Type IIB, III, IV-HT and V construction, provided that the membrane is not less than 20 feet (6096 mm) above any floor, balcony or gallery."

Enacted by Chapter 43, 2020 General Session

Part 3
Statewide Amendments to International Fire Code

15A-2a-301 Amendments to Chapter 7 of IFC.

In IFC, Section 701.6 is deleted and replaced with the following: "701.6 Owner's responsibility. The owner shall maintain an inventory of all required fire-resistance-rated construction, construction installed to resist the passage of smoke and the construction included in Sections 703 through 707 and Sections 602.4.1 and 602.4.2 of the International Building Code. Such construction shall be visually inspected by the owner annually and properly repaired, restored or replaced where damaged, altered, breached or penetrated. Records of inspections and repairs shall be maintained. Where concealed, such elements shall not be required to be visually inspected by the owner unless the concealed space is accessible by the removal or movement of a panel, access door, ceiling tile or similar movable entry to the space."

Enacted by Chapter 43, 2020 General Session

15A-2a-302 Amendments to Chapters 9 and 33 of IFC.

(1) In IFC, Section 914.3.1.2 is deleted and replaced with the following: "914.3.1.2 Water supply to required fire pumps. In all buildings that are more than 420 feet (128m) in building height, and buildings of Type IV-A and IV-B construction that are more than 120 feet in building height, required fire pumps shall be supplied by connections to not fewer than two water mains located in different streets. Separate supply piping shall be provided between the connection and the pumps shall be sized to supply the flow and pressure required for the pumps to operate. Exception: Two connections to the same main shall be permitted provided that the main is valved such that an interruption can be isolated so that the water supply will continue without interruption through not fewer than one of the connections."

(2) In IFC, Section 3308, a new section is added as follows: "3308.9 Fire safety requirements for buildings of Types IV-A, IV-B, and IV-C construction. Buildings of Types IV-A, IV-B, and IV-C construction designed to be greater than six stories above grade plane shall comply with the following requirements during construction unless otherwise approved by the fire code official:

1. Standpipes shall be provided in accordance with Section 3313.
2. A water supply for fire department operations, as approved by the fire code official and the fire chief.
3. Where building construction exceeds six stories above grade plane, at least one layer of non-combustible protection where required by Section 602.4 of the International Building Code shall be installed on all building elements more than 4 floor levels, including mezzanines, below active mass timber construction before erecting additional floor levels.

Exception: Shafts and vertical exit enclosures shall not be considered a part of the active mass timber construction.

4. Where building construction exceeds six stories above grade plane required exterior wall coverings shall be installed on all floor levels more than 4 floor levels, including mezzanines, below active mass timber construction before erecting additional floor level. Exception: Shafts and vertical exit enclosures shall not be considered a part of the active mass timber construction."

Enacted by Chapter 43, 2020 General Session

Part 4 Reference Standards

15A-2a-401 Reference Standards.

~~ASTM~~

~~D3498-03(2011): Standard Specification for Adhesives for Field-Gluing Plywood to Lumber Framing for Floor Systems~~

~~ASTM International~~

~~100 Barr Harbor Drive,~~

~~P.O. Box C700~~

~~West Conshohocken, PA 19428-2959~~

Enacted by Chapter 43, 2020 General Session

Chapter 3
Statewide Amendments Incorporated as Part of State Construction Code

Part 1
Statewide Amendments to International Building Code

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) In IBC, Section 110, a new section is added as follows: " ~~110.3.5.1~~ 110.3.13, Weather-resistant exterior wall envelope. An inspection shall be made of the weather-resistant exterior wall envelope as required by Section 1404.2, and flashing as required by Section 1404.4 to prevent water from entering the weather-resistive barrier."

(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 stop work."

(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 following definition is added for Assisted Living Facility, Residential Treatment and Support: "ASSISTED LIVING FACILITY, RESIDENTIAL TREATMENT AND SUPPORT: ~~. See Residential Treatment/Support Assisted Living Facility, Type I Assisted Living Facility, and Type II Assisted Living Facility.~~ "A residential facility that provides a group living environment for four or more residents licensed by the 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.

ASSISTED LIVING FACILITY, TYPE I. A residential facility licensed by the Utah Department of Health that provides a protected living arrangement, assistance with activities of daily living and social care to two or more ambulatory, non-restrained person who are capable of mobility sufficient to exit the facility without the assistance of another person.

ASSISTED LIVING FACILITY, TYPE II. A residential facility licensed by the Utah Department of Health that provides an array of coordinated supportive personal and health care services to two or more residents who are:

(i) Physically disabled but able to direct his or her own care; or

(ii) Cognitively impaired or physically disabled but able to evacuate from the facility, or to a zone or area of safety, with the physical assistance of one person.

ASSISTED LIVING FACILITY, LIMITED CAPACITY. A Type I or Type II assisted living facility having two to five residents.

ASSISTED LIVING FACILITY, SMALL. A Type I or Type II assisted living facility having six to sixteen residents.

ASSISTED LIVING FACILITY, LARGE. A Type I or Type II assisted living facility having more than sixteen residents."

(6) In IBC, Section 202, ~~the definition for Foster Care Facilities is modified by deleting the word "Foster" and replacing it with the word "Child."~~ "The definition for Child Care Facility is added as follows: "CHILD CARE FACILITY: A facility where care and supervision is provided for four or more children for less than 24 hours a day and for direct or indirect compensation in place of care ordinarily provided in their home."

(7) In IBC, Section 202, the definition for "[F]Record Drawings" is modified by deleting the words "afire alarm system" and replacing them with "any fire protection system."

~~(8)In IBC, Section 202, the following definition is added for Residential Treatment/Support Assisted Living Facility: "RESIDENTIAL TREATMENT/SUPPORT ASSISTED LIVING FACILITY. A residential facility that provides a group living environment for four or more residents licensed by the 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."~~

~~(9) In IBC, Section 202, the following definition is added for Type I Assisted Living Facility: "TYPE I ASSISTED LIVING FACILITY. A residential facility licensed by the Department of Health that provides a protected living arrangement, assistance with activities of daily living and social care to two or more ambulatory, non-restrained persons who are capable of mobility sufficient to exit the facility without the assistance of another person. Subcategories are:~~

~~Limited Capacity: two to five residents;~~

~~Small: six to sixteen residents; and~~

~~Large: over sixteen residents."~~

~~(10)In IBC, Section 202, the following definition is added for Type II Assisted Living Facility: "TYPE II ASSISTED LIVING FACILITY. A residential facility licensed by the Department of Health that provides an array of coordinated supportive personal and health care services to two or more residents who are:~~

~~b. Physically disabled but able to direct his or her own care; or~~

~~c. Cognitively impaired or physically disabled but able to evacuate from the facility, or to a zone or area of safety, with the physical assistance of one person. Subcategories are:~~

~~Limited Capacity: two to five residents;~~

~~Small: six to sixteen residents; and~~

~~Large: over sixteen residents."~~

~~(11)In IBC, Section 305.2, the following changes are made:~~

~~(a) delete the words "more than five children older than 2 1/2 years of age" and replace with the words "five or more children 2 years of age or older";~~

~~(b) after the word "supervision" insert the words "child care services"; and~~

~~(c) add the following sentence at the end of the paragraph: "See Section 429, Day Care, for special requirements for day care."~~

~~(12) In IBC, Section 305.2.2 and 305.2.3, the word "five" is deleted and replaced with the word "four" in all places.~~

~~(13) A new IBC Section 305.2.4 is added as follows: "305.2.4 Child day care -- residential childcare certificate or a license. Areas used for child day care purposes with a residential~~

~~child care certificate, as described in Utah Administrative Code, R430-50, Residential Certificate Child Care, or a residential child care license, as described 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 Sections 310.3 and 310.4 comply with the International Residential Code in accordance with Section R101.2."~~

~~(14) A new IBC Section 305.2.5 is added as follows: "305.2.5 Child care centers. Each of the following areas may be classified as accessory occupancies, if the area complies with Section 508.2:~~

~~1. Hourly child care centers, as described in Utah Administrative Code, R381-60, Hourly Child Care Centers;~~

~~2. Child care centers, as described in Utah Administrative Code, R381-100, Child Care Centers; and~~

~~3. Out-of-school-time programs, as described in Utah Administrative Code, R381-70, Out of School Time Child Care Programs."~~

(8) In IBC Section 305, Sections 305.2 through 305.2.3 are deleted and replaced with the following:

"305.2 Group E, Child Care Facilities. This group includes buildings and structures or portions thereof occupied by four or more children 2 years of age or older who receive educational, supervision, child care services or personal care services for fewer than 24 hours per day. See Section 429 Day Care, for special requirements for day care.

305.2.1 Within places of religious worship. Rooms and spaces within places of religious worship providing such day care during religious functions shall be classified as part of the primary occupancy.

305.2.2 Four or fewer children. A facility having four or fewer children receiving such day care shall be classified as part of the primary occupancy.

305.2.3 Four or fewer children in a dwelling unit. A facility such as the above within a dwelling unit and having four or fewer children receiving such day care shall be classified as a Group R-3 occupancy or shall comply with the International Residential Code.

305.2.4 Child Day Care – Residential Child Care Certificate or a License. Areas used for child day care purposes with a residential child care certificate, as described in Utah Administrative Code, R430-50, Residential Certificate Child Care, or a residential child care license, as described 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 Sections 310.3 and 310.4 or shall comply with the International Residential Code in accordance with Section R101.2.

305.2.5 Child Care Centers. Each of the following areas may be classified as accessory occupancies, if the area complies with Section 508.2:

1. Hourly child care center, as described in Utah Administrative Code, R381-60 Hourly Child Care Centers;
2. Child care centers, as described in Utah Administrative Code, R381-100, Child Care Centers;
3. Out-of-school-time programs, as descrbed in Utah Administrative Code R381-70, Out of School Time Child Care Programs.
4. Commercial preschools as described in Utah Administrative Code R381-40, Commercial Preschool Programs."

~~(15)~~ (9) In IBC, Table 307.1(1), footnote "d" is added to the row for Explosives, Division 1.4G in the column titled STORAGE - Solid Pounds (cubic feet).

~~(16)~~ (10)In IBC, Section 308.2, in the list of items under "This group shall include," the words "Type-I Large and Type-II Small, see Section 308.2.5" are added after "Assisted living facilities."

~~(17)~~ (11)In IBC, Section 308.2.4, all of the words after the first International Residential Code are deleted.

~~(18)~~ (12)A new IBC, Section 308.2.5 is added as follows:

~~"308.2.5 Group I-1 assisted living facility occupancy groups. The following occupancy groups shall apply to assisted living facilities:~~

~~Type I assisted living facilities with seventeen or more residents are Large Facilities classified as an Institutional Group I-1, Condition 1 occupancy.~~

~~Type II assisted living facilities with six to sixteen residents are Small Facilities classified as an Institutional Group I-1, Condition 2 occupancy. See Section 202 for definitions."~~

"308.2.5 Assisted living facilities. A Type I, Large assisted living facility is classified as occupancy Group I-1, Condition 1. A Type II, Small assisted living facility is classified as occupancy Group I-1, Condition 2. See Section 202 for definitions.

~~(19)~~ (13)~~In~~ IBC, Section 308.3 is deleted and replaced with the following:

"308.3 Institutional Group I-2. Institutional Group I-2 occupancy shall include buildings and structures used for medical care on a 24-hour basis for more than four persons who are incapable of self-preservation. This group shall include, but not be limited to the following:

Assisted living facilities, Type-II Large, see Section 308.3.3

Child care facilities

Foster care facilities

Detoxification facilities

Hospitals

Nursing homes (both intermediate care facilities and skilled nursing facilities)

Psychiatric hospitals"

~~, the following changes are made: (a) The words "more than five" are deleted and replaced with "four or more";~~

~~(b) The group "Assisted living facilities, Type-II Large" is added to the list of groups;~~

~~(c) The words "Foster care facilities" are deleted and replaced with the words "Child care facilities"; and~~

~~(d) The words "(both intermediate care facilities and skilled nursing facilities)" are added after "Nursing homes."~~

~~(20)~~ (14)In IBC, Section 308.3.2, the number "five" is deleted and replaced with the number "four" in each location.

~~(21)~~ (15)A new IBC, Section 308.3.3 is added as follows:

"308.3.3 ~~Group I-2 assisted living facilities. Type II assisted living facilities with seventeen or more residents are Large Facilities classified as an Institutional Group I-2, Condition 1 occupancy. See Section 202 for definitions."~~ Assisted living facilities. A Type-II, Large assisted living facility is classified as occupancy Group I-2, Condition 1, See Section 202 for definitions."

~~(22)~~ (16)In IBC, Section 308.5, the words "more than five" are deleted and replaced with the words "five or more in each location."

~~(23)~~ (17)~~In~~ IBC, Section 308.5.1, ~~the following changes are made~~ is deleted and replaced with the following::

~~(a) The words "more than five" are deleted and replaced with the words "five or more."~~

~~(b) The words "2-1/2 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 429 for special requirements for Day Care."~~

"308.5.1 Classification as Group E. A child day care facility that provides care for five or more but not more than 100 children under two years of age, where the rooms in which the children are cared for are located on a level of exit discharge serving such rooms and each of these child care rooms has an exit door directly to the exterior, shall be classified as a Group E. See Section 429 for special requirements for Day Care."

~~(24)~~ (18)In IBC, Sections 308.5.3 and 308.5.4, the words "five or fewer" are deleted and replaced with the words "four or fewer" in each location. ~~both places~~ and the following sentence is added at the end: "See Section 429 for special requirements for Day Care."

~~(25)~~ ~~In~~ IBC, Section 310.4~~, the following changes are made~~ is deleted and replaced with the following:

~~(a) The words "and single family dwellings complying with the IRC" are added after "ResidentialGroup-3 occupancies."~~

~~(b) The words "Assisted Living Facilities, limited capacity" are added to the list of occupancies.~~

~~(26)~~ (19)~~In~~ IBC, Section 310.4.1~~, the following changes are made~~ is deleted and replaced with the following:

~~(a) The words "other than Child Care" are inserted after the words "Care facilities" in the first sentence.~~

~~(b) All of the words after the first "International Residential Code" are deleted.~~

~~(c) The following sentence is added at the end of the last sentence: "See Section 429 for special requirements for Child Day Care."~~

"310.4 Residential Group R-3. Residential Group R-3 occupancies and single family dwellings complying with the IRC where the occupants are primarily permanent in nature and not classified as Group R-1, R-2, R-4 or I, including"

Assisted Living Facilities, Type-I, limited capacity, see Section 310.5.3

Buildings that do not contain more than two dwellings

Care facilities, other than child care, that provide accommodations for five or fewer persons receiving care

Congregate living facilities (nontransient) with 16 or fewer occupants

Boarding houses (nontransient)

Convents

Dormitories

Fraternities and sororities

Monasteries

Congregate living facilities (transient) with 10 or fewer occupants

Boarding houses (transient)

Lodging houses (transient) with five or fewer guest rooms and 10 or fewer occupants"

(20) IBC Section 310.4.1 is deleted and replaced with the following:

310.4.1 Care facilities within a dwelling. Care facilities, other than child care, for five or fewer persons receiving care that are within a single family dwelling are permitted to comply with the International Residential Code. See Section 429 for special requirements for Child Day Care.

~~(27)~~ (21)A new IBC Section 310.4.3 is added as follows: " 310.4.3 Child Care. Areas used for childcare purposes may be located in a residential dwelling unit under all of the following conditions and Section 429:

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."

~~(28)~~ (22)A new IBC, Section 310.4.4 is added as follows: "310.4.4 Assisted living facilities. Type I assisted living facilities with two to five residents are Limited Capacity facilities classified as a Residential Group R-3 occupancy or are permitted to comply with the International Residential Code. See Section 202 for definitions."

~~(29)~~ (23)In IBC, Section 310.5, the words "Type II Limited Capacity and Type I Small, see Section 310.5.3" are added after the words "assisted living facilities."

~~(30)~~ (24)A new IBC, Section 310.5.3, is added as follows: "310.5.3 Group R-4 Assisted living facility occupancy groups. The following occupancy groups shall apply to Assisted Living Facilities: Type II Assisted Living Facilities with two to five residents are Limited Capacity Facilities classified as a Residential Group R-4, Condition 2 occupancy. Type I assisted living facilities with six to sixteen residents are Small Facilities classified as Residential Group R-4, Condition 1 occupancies. See Section 202 for definitions."

Amended by Chapter 20, 2019 General Session

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

(1)IBC Section 403.5.5 is deleted.

(2) In IBC, Section 407.2.5, the words "and assisted living facility" are added in the title and first sentence after the words "nursing home."

(3) In IBC, Section 407.2.6, the words "and assisted living facility" are added in the title after the words "nursing home."

(4) In IBC, Section 407.3.1.1, Item 3 is deleted and replaced with the following: 3. To provide makeup air for exhaust systems in accordance with Section 1020.6, Exception 1, doors to toilet rooms, bathrooms, shower rooms, sink closets, and similar auxiliary spaces that do not contain flammable or combustible materials are permitted to have louvers or an undercut of 2/3 inch (19.1 mm) maximum."

(5) In IBC, Section 407.4.1 Exception 3 is added as follows:

3. Only one exit access with direct access to a corridor is required from an assisted living facility, single resident sleeping unit that consists of a living space and one or two separate sleeping rooms. For other than closets, toilet and shower rooms, occupants may not be required to pass through more than one room before reaching the exit access.

(6) In IBC, Section 407.4.3, the words "and assisted living facility" are added in the title and after

the words "nursing home."

~~(4)~~(7)In IBC, Section 407.11, a new exception is added as follows: "Exception: An essential electrical system is not required in assisted living facilities."

~~(5)~~(8)In IBC, Section 412.3.1, a new exception is added as follows: "Exception: Aircraft hangars of Type I or II construction that are less than 5,000 square feet (464.5m2) in area."

~~(6)~~(9)A new IBC, Section 422.2.1 is added as follows: " 422.2.1 Separations: Ambulatory care facilities licensed by the Department of Health shall be separated from adjacent tenants with a fire 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."

~~(7)~~(10)A new IBC Section 429, Day Care, is added as follows:

" 429.1 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.

429.2 Definitions.

429.2.1 Authority Having Jurisdiction (AHJ): State Fire Marshal, his duly authorized deputies, or the local fire enforcement authority code official.

429.2.2 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.

429.2.3 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.

429.2.4 Family Day Care: Providing care for clients listed in the following two groups:

429.2.4.1 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.

429.2.4.2 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.

429.2.5 R710-8: Utah Administrative Code, R710-8, Day Care Rules, as enacted under the authority of the Utah Fire Prevention Board.

429.3 Family Day Care.

429.3.1 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.

429.3.2 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. 429.3.2.1 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 1030.

429.3.3 Family Day Care units shall not be located above the second story.

429.3.4 In Family Day Care units, clients under the age of two shall not be located above or below the first story.

429.3.4.1 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 1011 or Section 1012 or Section 1027.

429.3.5 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.

429.3.6 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.

429.3.7 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.

429.3.8 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.

429.3.9 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.

429.4 Day Care Centers.

429.4.1 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.

429.4.2 Emergency Evacuation Drills shall be completed as required in IFC, Chapter 4, Section405.

429.4.3 Location at grade. Group E child day care centers shall be located at the level of exit discharge.

429.4.3.1 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.

429.4.4 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 1030.

429.4.5 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.

429.5 Requirements for all Day Care.

429.5.1 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.

429.5.2 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."

~~(8)~~(11)In IBC, Section 504.4, a new section is added as follows: "504.4.1 Group I-2 Assisted Living Facilities. Notwithstanding the allowable number of stories permitted by Table 504.4 Group I-2

Assisted Living Facilities of type VA, construction shall be allowed on each level of a two-story building when all of the following apply:

1. The total combined area of both stories does not exceed the total allowable area for a one story, above grade plane building equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1.
2. All other provisions that apply in Section 407 have been provided."

~~(9)~~(12)A new IBC, Section 504.5, is added as follows: "504.5 Group 1-2 Secured areas in Assisted Living Facilities. In Type IIIB, IV, and V construction, all areas for the use and care of residents required to be secured shall be located on the level of exit discharge with door operations in compliance with Section 1010.1.9.7, as amended."

~~(10)~~(13)In IBC, Table 602 is added as follows:

"TABLE 602 FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE a, d, g

Fire Separation Distance = X (feet)	TYPE OF CONSTRUCTION	OCCUPANCY GROUP H[e]	OCCUPANCY GROUP F-1, M, S-1[f]	OCCUPANCY GROUP A, B, F-2, I, R[i], S-2, U[h]
< 5[b]	All	3	2	1
5 # X < 10	IA, IVA Others	3 2	2 1	11
10 # X < 30	IA, IB, IVA, IVB IIB, VB Others	2 1 1	1 0 1	1[c] 0 1[c]
X # 30	All	0	0	0

For SI: 1 foot = 304.8 mm.

a. Load-bearing exterior walls shall also comply with the fire-resistance rating requirements of Table 601.
b. See Section 706.1.1 for party walls.
c. Open parking garages complying with Section 406 shall not be required to have a fire-resistance rating.
d. The fire-resistance rating of an exterior wall is determined based upon the fire separation distance of the exterior wall and the story in which the wall is located.
e. For special requirements for Group H occupancies, see Section 415.6.
f. For special requirements for Group S aircraft hangars, see Section 412.3.1.
g. Where Table 705.8 permits nonbearing exterior walls with unlimited area of unprotected openings, the required fire-resistance rating for the exterior walls is 0 hours.
h. For a building containing only a Group U occupancy private garage or carport, the exterior wall shall not be required to have a fire-resistance rating where the fire separation distance is 5 feet (1523 mm) or greater.

i. For a Group R-3 building of Type II-B or Type V-B construction, the exterior wall shall not be required to have a fire-resistance rating where the fire separation distance is 5 feet (1523 mm) or greater."

Amended by Chapter 243, 2020 General Session
Amended by Chapter 441, 2020 General Session

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

(1) In IBC, Section 704.13.2, the following sentence is added to the end of the section: "An individual spraying fire-resistant materials may obtain a certificate that demonstrates that the individual has undergone training on how to spray fire-resistant materials to manufacturer's specifications."

(2)IBC, Section (F) 902.1, is deleted and replaced with the following: "(F) 902.1 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:

902.1.5 A minimum clear and unobstructed distance of 12-inches shall be provided from the installed equipment to the elements of permanent construction.

902.1.6 A minimum clear and unobstructed distance of 12-inches shall be provided between all other installed equipment and appliances.

902.1.7 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.

902.1.8 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.

902.1.9 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 80inches."

(3) 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.

(4)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."

(5)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."

(6)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 IA, I-B, II-A, or II-B construction."

(7)IBC, Section (F)903.2.8.3 is renumbered to (F)903.2.8.1 and the following exception is added: "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."

(8)IBC, Section (F)903.2.8.4, is deleted.

(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."

(10)IBC, Section (F)904.12, is deleted and replaced with the following: "(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."

(11)IBC, Sections (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 905, a new subsection, Section (F)905.3.9, 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 feet 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 and approved by the fire code official."

(14) In IBC, Section (F)907.2.3 Group E is deleted and rewritten as follows: "A manual fire alarm system that initiates the occupant notification signal using an emergency voice/alarm communication system that meets the requirements of Section (F) 907.5.2.2, or a manual fire alarm system that initiates an approved audible and visual occupant notification signal that meets the requirements of Sections (F)907.5.2.1, (F)907.5.2.1.1, (F)907.5.2.2, and (F)907.5.2.3, and is installed in accordance with Section (F)907.6 shall be installed in Group E occupancies. Where automatic sprinkler systems or detectors are installed, the systems or detectors shall be connected to the building fire alarm system."

(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 that 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 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) 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 a 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 a 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 that 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, for single station detectors, UL 2034 and, for system detectors, UL 2075.

(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 overcurrent 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 20, 2019 General Session

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

~~(1) In IBC, Section 1010.1.9, an exception is added as follows: "Exception: Group E occupancies for purposes of a lockdown or a lockdown drill in accordance with Section 1010.1.9.5 Exception 5."~~

~~(2) In IBC, Section 1010.1.9.2, "Exception:" is deleted and replaced with "Exceptions: 1."~~

~~(3) In IBC, Section 1010.1.9.2, a new exception 2 is added as follows: "2. Group E occupancies for purposes of a lockdown or a lockdown drill may have one lock below 34 inches in accordance with Section 1010.1.9.5 Exception 5."~~

~~(4) In IBC, Section 1010.1.9.4, a new number 7 is added as follows: " 7. Group E occupancies for purposes of a lockdown or a lockdown drill in accordance with Section 1010.1.9.5 Exception 5."~~

~~(5) In IBC, Section 1010.1.9.5, a new exception 6 is added as follows: "6. Group E occupancies for purposes of a lockdown or a lockdown drill in accordance with Section 1010.1.9.5 Exception 5."~~

~~(6) In IBC, Section 1010.1.9.6, a new exception 5 is added as follows: "5. Group E occupancies may have a second lock on classrooms for purposes of a lockdown or lockdown drill, if:~~

~~5.1 The application of the lock is approved by the code official.~~

~~5.2 The unlatching of any door or leaf does not require more than two operations.~~

~~5.3 The lock can be released from the opposite side of the door on which it is installed.~~

~~5.4 The lock is only applied during lockdown or during a lockdown drill.~~

~~5.5 The lock complies with all other state and federal regulations, including the Americans with Disabilities Act of 1990, 42 U.S.C. Sec. 12101 et seq."~~

~~(7) In IBC, Section 1010.1.9.7, a new number 9 is added as follows: " 9. The secure area or unit with special egress locks shall be located at the level of exit discharge in Type IIIB, IV, and V construction."~~

~~(8)~~ In IBC, Section 1011.5.2, exception 3 is deleted and replaced with the following: " 3. In GroupR-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)."

~~(9)~~ In IBC, Section 1011.11, a new exception ~~5~~ 6 is added as follows: " ~~5~~6. In occupancies in GroupR-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."

~~(10) In IBC, Section 1013.5, the words ", including when the building may not be fully occupied" are added at the end of the sentence.~~

(~~11~~)IBC, Section 1025, is deleted.

~~(12) In IBC, Section 1029.15, exception 2 is deleted.~~

~~(13) In IBC, Section 1207.4, 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 20, 2019 General Session

15A-3-106 Amendments to Chapters 13 through 15 of IBC.

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

Amended by Chapter 249, 2016 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 Condition 1," anew footnote c is added as follows: "c. Type II Assisted Living Facilities that are I-2 Condition 1 occupancy classifications in accordance with Section 308 shall be Risk Category II in this table."

(2) In IBC, Section 1605.1, Exception 2 is deleted and replaced with the following:

"2. Where the allowable stress design load combinations of ASCE 7 Section 2.4 are used, Flat roof snow loads of 30 pounds per square foot (1.44kN/m2) or less and roof live loads of 30 pounds per square foot)1.44kn/m2)or less need not be combined with seismic loads. Where float roof snow loads exceed 30 pounds per square foot)1.44 kN/m2), the snow loads may be reduced in accordance with the following in load combinations including both snow and seismic loads. S as calculated below, shall be combined with seismic loads.

$S = (0.20 + 0.025\ (A-S))P_{roof}$, where S shall be greater than or equal to $0.20P_{roof}$.

Where:

S = Weight of snow to be used in combination with seismic loads.

A = Elevation above sea level at the location of the structure (ft/1,000)

P_{roof} = Design float roof snow loads, Pf or Ps, 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 calculation Pf may be considered 1.0.

(3) In IBC, Section 1605.1 a new exception 4 is added as follows:

"4. ASCE 7-16 Section 2.3.6 Equation 6 shall be modified to 1.2D + Ev + Eh + L +f25 and 1.2D + Ev + Emh + L +f25 with f2 = (0.20 =0.025(A-5) where the roof snow load exceeds 30 pounds per square foot (1.44kN/m2). Where A = Elevation above sea level at the location of the structure (ft/1000). f2 = 0 for roof snow loads of 30 pounds per square foot (1.44kN/m2) or less."

(~~2~~)(4)In IBC, Section 1605.2, in the portion of the definition for the value of f2, the words "and 0.2 for other roof configurations" are deleted and replaced with the following: "f2 = 0.20 + .025(A-5) for other configurations where roof snow load exceeds 30 psf; f2 = 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~~)(5)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. S as calculated below, shall be combined with seismic loads.

S = (0.20 + 0.025(A-5))Pf is greater than or equal to 0.20 Pf.

Where:

S = Weight of snow to be used in combination with seismic loads A =
Elevation above sea level at the location of the structure (ft./1,000) Pf
= 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 Pf may be considered 1.0 for use in the formula for Ws".

(~~4~~)(6)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. Where the minimum live load, in accordance with Section 1607, is greater than the design roof snow load, pf, the live load shall be used for design, but it may not be reduced to a load lower than the design roof snow load. Drifting need not be considered for roof snow loads, pf, less than 20 psf."

(~~5~~)(7)A new IBC, Section 1608.1.1, is added as follows: "1608.1.1 Ice dams and icicles along eaves. Section 7.4.5 of Chapter 7 of ASCE 7 referenced in IBC Section 1608.1 is deleted and replaced with the following: 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 2pf 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~~)(8)A new IBC, Section 1608.1.2, is added as follows: "1608.1.2 Thermal factor. The value for the thermal factor, Ct, used in calculation of pf shall be determined from Table 7.3-2 in ASCE 7. Exception: Except for unheated structures, the value of Ct need not exceed 1.0 when ground snow load, pg, is calculated using Section 1608.2.1."

(~~7~~)(9)A new IBC, Section 1608.1.3 is added as follows: "1608.1.3 Drifts on adjacent structures. Section 7.7.2 of ASCE 7 referenced in IBC, Section 1608.1, is deleted and replaced with the following: 7.7.2 Adjacent structures. At lower adjacent structures, the requirements of Section 7.7.1

shall be used to calculate windward and leeward drifts. The resulting drift is permitted to be truncated."

(~~8~~)(10)A new IBC, Section 1608.2.1 is added as follows: "1608.2.1 Utah ground snow loads. Section

7.2 of ASCE 7 referenced in IBC, Section 1608.1 is modified as follows:

(a) In paragraph 1, 7.2-8 is deleted and replaced with 7.2-9.

(b) On Figure 7.2-1, remove CS and other ground snow load values in the state of Utah. Add red shaded region for the state of Utah with the following note: See note for Utah.

(c) The following is added to the Note on Figure 7.2.1: See Table 7.2-9 for Utah.

(d) Add Table 7-2.9 as follows:

TABLE 7.2-9

GROUND SNOW LOADS FOR SELECTED LOCATIONS IN UTAH

City/Town	County	Ground Snow Load (lb/ft2)	Elevation (ft)
Beaver	Beaver	35	5886
Brigham City	Box Elder	42	4423
Castle Dale	Emery	32	5669
Coalville	Summit	57	5581
Duchesne	Duchesne	39	5508
Farmington	Davis	35	4318
Fillmore	Millard	30	5138
Heber City	Wasatch	60	5604
Junction	Piute	27	6030
Kanab	Kane	25	4964
Loa	Wayne	37	7060
Logan	Cache	43	4531
Manila	Daggett	26	6368
Manti	Sanpete	37	5620
Moab	Grand	21	4029
Monticello	San Juan	67	7064
Morgan	Morgan	52	5062
Nephi	Juab	39	5131
Ogden	Weber	37	4334
Panguitch	Garfield	41	6630
Parowan	Iron	32	6007

Price	Carbon	31	5558
Provo	Utah	31	4541
Randolph	Rich	50	6286
Richfield	Sevier	27	5338
St. George	Washington	21	2585
Salt Lake City	Salt Lake	28	4239
Tooele	Tooele	35	5029
Vernal	Uintah	39	5384

Note: To convert lb/ft2 to kN/m2, multiply by 0.0479. To convert feet to meters, multiply by 0.3048.
1. Statutory requirements of the Authority Having Jurisdiction are not included in this state ground snow load table.
2. For locations where there is substantial change in altitude over the city/town, the load applies at and below the cited elevation, with a tolerance of 100 ft (30 m).
3. For other locations in Utah, see Bean, B., Maguire, M., Sun, Y. (2018), "The Utah Snow Load Study," Utah State University Civil and Environmental Engineering Faculty Publications, Paper 3589, http://utahsnowload.usu.edu/, for ground snow load values.

~~(9)~~(11)A new IBC, Section 1613.1.1, is added as follows: "1613.1.1 Effective Seismic Weight. In ASCE 12.7.2 and 12.14.8.1 as referenced in Section 1613.1, Definition of W, Item 4 is deleted and replaced with the following:

4. Where flat roof snow load, Pf, exceeds 30 psf (1.44 kN/m2), the snow load included in the effective seismic weight shall be calculated, in accordance with the following equation: Ws = (0.20 + 0.025(A-5))Pf >= 0.20 Pf.

WHERE:

Ws = Weight of snow to be included as effective seismic weight A =

Elevation above sea level at the location of the structure (ft./1,000)

Pf = Design flat 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 Pf may be considered 1.0 for use in the formula for Ws."

Amended by Chapter 20, 2019 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)

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) A new IBC, Section 1905.1.9, is added as follows: "1905.1.9 ACI 318~~, Table 4.2.1~~ Section 19.3.1.1." Modify ACI318, Table 19.3.1.1 to read as follows: In the portion of the table designated as "Conditions", the following Exposure category and class 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."

Amended by Chapter 249, 2016 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, Cd, of the National Design Specifications, shall not be utilized at elevations above 5,000 feet (1,524 M)."

(2) In IBC, Section 2308.3.1, the words "6 feet (1829 mm)" and "4 feet (1219 mm)" are deleted and each replaced with the words "32 inches."

Amended by Chapter 20, 2019 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) In the row for "E" occupancy in the field for "OTHER" a new footnote i is added.

(b) In the row for "I-4" occupancy in the field for "OTHER" a new footnote i is added.

(c) A new footnote h is added as follows: "FOOTNOTE: g. When provided, subject to foot note i, in public toilet facilities there shall be an equal number of diaper changing facilities in male toilet rooms and female toilet rooms."

(d) A new footnote h is added to the table as follows: "FOOTNOTE h: Non-residential childcare facilities shall comply with additional sink requirements of Utah Administrative Code, R381-60-9, Hourly Child Care Centers, R381-70-9, Out of School Time Child Care Programs, and R381-100-9, Child Care Centers."

(e) A new footnote i is added to the table as follows: "FOOTNOTE i: A building owned by a state government entity or by a political subdivision of the state that allows access to the public shall provide diaper changing facilities in accordance with footnote h if:

1. the building is newly constructed; or
2. a bathroom in the building is renovated."

(f) Footnote f is deleted and replaced with the following: "FOOTNOTE f: The required number and type of plumbing fixtures for outdoor public swimming pools shall be in accordance with Utah Administrative Code, R392-302, Design, Construction and Operation of Public Pools."

(2) A new IBC, Section [P]2902.7, is added as follows:

"[P]2902.7 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 non sewer type shall conform to ANSI Z4.3."

(3)IBC, Section 3001.2, is deleted.

(4) 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."

(5) In IBC, Section 3109.1, the words "the International Swimming Pool and Spa Code" at the end of the section are deleted and replaced with the words "Utah Administrative Code, R392-302, Design, Construction and Operation of Public Pools."

Amended by Chapter 441, 2020 General Session

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

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."

Amended by Chapter 20, 2019 General Session

Part 2
Statewide Amendments to International Residential Code

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. A structure whose egress window in an existing bedroom is smaller than required by this code, and that complied with the construction code in effect at the time that the bedroom was finished, is not required to undergo a physical change to conform to this code if the change would compromise the structural integrity of the structure or could not be completed in accordance with other applicable requirements of this code, including setback and window well requirements."

(2) In IRC, Section R105.2, number 10 is deleted and replaced with the following:
10. Decks not more than 30 inches (762mm) above grade at any point, are not attached to a Dwelling, and do not serve the exit door required by Section R311.4.

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

(3) 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.

(4) 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."

(5) 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)."

(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, Chapter 4, Safe Drinking Water Act, and Title 19, Chapter 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 R301.2(5) as follows:

"TABLE R301.2(5)

GROUND SNOW LOADS FOR SELECTED LOCATIONS IN UTAH

City/Town	County	Ground Snow Load (lb/ft2)	Elevation (ft)
Beaver	Beaver	35	5886
Brigham City	Box Elder	42	4423
Castle Dale	Emery	32	5669
Coalville	Summit	57	5581
Duchesne	Duchesne	39	5508
Farmington	Davis	35	4318
Fillmore	Millard	30	5138
Heber City	Wasatch	60	5604
Junction	Piute	27	6030
Kanab	Kane	25	4964
Loa	Wayne	37	7060
Logan	Cache	43	4531
Manila	Daggett	26	6368
Manti	Sanpete	37	5620
Moab	Grand	21	4029

Monticello	San Juan	67	7064
Morgan	Morgan	52	5062
Nephi	Juab	39	5131
Ogden	Weber	37	4334
Panguitch	Garfield	41	6630
Parowan	Iron	32	6007
Price	Carbon	31	5558
Provo	Utah	31	4541
Randolph	Rich	50	6286
Richfield	Sevier	27	5338
St. George	Washington	21	2585
Salt Lake City	Salt Lake	28	4239
Tooele	Tooele	35	5029
Vernal	Uintah	39	5384

Note: To convert lb/ft2 to kN/m2, multiply by 0.0479. To convert feet to meters, multiply by 0.3048.

1. Statutory requirements of the Authority Having Jurisdiction are not included in this state ground snow load table.
2. For locations where there is substantial change in altitude over the city/town, the load applies at and below the cited elevation, with a tolerance of 100 ft (30 m).
3. For other locations in Utah, see Bean, B., Maguire, M., Sun, Y. (2018), "The Utah Snow Load Study," Utah State University Civil and Environmental Engineering Faculty Publications, Paper 3589, http://utahsnowload.usu.edu/, for ground snow load values.

(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, for other locations in Utah, see Bean, B., Maguire, M., Sun, Y. (2018), "The Utah Snow Load Study," Utah State University Civil and Environmental Engineering Faculty Publications, Paper 3589, http://utahsnowload.usu.edu/, for ground snow load values."

(11) In IRC, Section R302.2, the following sentence is added after the second sentence: "When an access/maintenance agreement or easement is in place, plumbing, mechanical ducting, schedule 40 steel gas pipe, and electric service conductors including feeders, are permitted to penetrate the common wall at grade, above grade, or below grade."

(12) In IRC, Section R302.5.1, the words "self-closing device" are deleted and replaced with "self latching hardware."

(13) IRC, Section R302.13, is deleted.

(14) In IRC, Section R303.4, the number "5" is changed to "3" in the first sentence.

(15) IRC, Sections R311.7.4 through R311.7.5.3, are deleted and replaced with the following: "R311.7.4 Stair treads and risers. R311.7.5.1 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).

R311.7.5.2 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).

R311.7.5.3 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) IRC, Section R312.2, is deleted.

(17) 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 NFPA 13D."

(18) In IRC, Section 315.3, the following words are added to the first sentence after the word "installed": "on each level of the dwelling unit and."

(19) In IRC, Section R315.5, a new exception, 3, is added as follows:

"3. 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) A new IRC, Section R315.7, is added as follows: " R315.7 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) In IRC, Section R317.1.5, the period is deleted and the following language is added to the end of the paragraph: "or treated with a moisture resistant coating."

(22) In IRC, Section 326.1, the words "residential provisions of the" are added after the words "pools and spas shall comply with".

(23) In IRC, Section R403.1.6, a new Exception 3 is added as follows: " 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."

(24) 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."

(25) 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."

(26) In IRC, Section R405.1, a new exception is added as follows: "Exception: When a geotechnical report has been provided for the property, a drainage system is not required unless the drainage system is required as a condition of the geotechnical report. The ~~geological~~ geotechnical report shall make a recommendation regarding a drainage system."

Amended by Chapter 441, 2020 General Session

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

(1) In IRC, Section N1101.5 (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 N1101.12 (R303.3), all wording after the first sentence is deleted.

(3) In IRC, Section N1101.13 (R401.2), add Exception as follows:

"Exception: A project complies if the project demonstrates compliance, using the software RES Check 2012 Utah Energy Conservation Code, of:

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

(b) on or after January 1, 2019, and before January 1, 2021, "4 percent better than code"; and after January 1, 2021, "5 percent better than code.""

(4) In IRC, Table N1102.2 (R402.1.2), in the column titled MASS WALL R-VALUE, a new footnote j is added as follows: "j. Log walls complying with ICC400 and with a minimum average wall thickness of 5 inches or greater shall be permitted in Zones 5 through 8 when overall

window glazing has a .31 U-factor or lower, minimum heating equipment efficiency is 90 AFUE (gas) or 84 AFUE (oil), and all other component requirements are met."

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

(6) 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 code official, the builder may certify compliance to components criteria for items which may not be inspected during regularly scheduled inspections."

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

(a) In the first sentence:

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

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

(iii) the words "in Climate Zones 1 and 2, and three air changes per hour in Climate Zones3 through 8" are deleted.

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

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

(d) 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."

(8) In IRC, Section N1103.3.3 (R403.3.3):

(a) the exception for duct air leakage testing is deleted; and

(b) the exception for duct air leakage is replaced:

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

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

(iii) on or after January 1, 2021, with the following: "Exception: The duct air leakage testis not required for systems with all air handlers and at least 80% of all ducts (measured by length) located entirely within the building thermal envelope."

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

(10) In IRC, Section N1103.3.4 (R403.3.4):

(a) in Subsection 1, the number 4 is changed to 8, the number 113.3 is changed to 170, the number 3 is changed to 6, the number 85 is changed to 114.6; and (b) in Subsection 2:

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

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

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

(11) In IRC, Section N1103.3.5 (R403.3.5), the words "or plenums" are deleted.

(12) In IRC, Section N1103.5.3 (R403.5.3), Subsection 5 is deleted and Subsections 6 and 7 are renumbered.

(13) IRC, Section N1103.6.1 (R403.6.1), is deleted and replaced with the following: "N1103.6.1 (R403.6.1) Whole-house mechanical ventilation system fan efficacy. Fans used to provide whole-house mechanical ventilation shall meet the efficacy requirements of Table N1103.6.1 (R403.6.1).

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

(14) In IRC, Section N1103.6.1 (R403.6.1), the table is deleted and replaced with the following:

TABLE N1103.6.1 (R403.6.1)
MECHANICAL VENTILATION SYSTEM FAN EFFICACY

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

(15) In IRC, Section N1106.4 (R406.4), the table is deleted and replaced with the following:

TABLE N1106.4 (R406.4)
MAXIMUM ENERGY RATING INDEX

CLIMATE ZONE	ENERGY RATING INDEX
3	65
5	69
6	68

(16) In IRC, Section M1307.2, the words "In Seismic Design Categories D0, D1, and D2, andin townhouses in Seismic Design Category C", are deleted, and in Subparagraph 1, the last sentence is deleted.

(17) IRC, Section M1411.8, is deleted.

(18) In IRC, Section M1602.2, the number "6" is deleted and replaced with the number "7".

Amended by Chapter 20, 2019 General Session

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

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."

Amended by Chapter 249, 2016 General Session

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

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

(2) IRC Section P2508.2 is deleted and replaced with the following: "P2508.2 Testing. Reduced pressure principle, double check, pressure vacuum breaker, reduced pressure detector fire protection, double check detector fire protections, and spill-resistant vacuum breaker backflow preventer assemblies shall be tested at the time of installation, immediately after repairs or relocation and at least annually. The Utah Cross-Connection Control Commission has adopted the field test procedures published by the Manual of Cross Connection Control, Tenth Edition. This manual is published by the University of Southern California's Foundation for Cross-Connection Control and Hydraulic Research. Test gauges shall comply with ASSE 1064."

(3) IRC Section P2602.1 is deleted and replaced with the following: "P2602.1 General. The water-distribution system of any building or premises where plumbing fixtures are installed shall be connected to a public 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, Section 73-3-1, 73-3-3, 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. The source shall supply sufficient quantity of water to comply with the requirements of this chapter."

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.

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

~~(1)~~(4)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)~~(5)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)~~(6)In IRC, Section P2705, Item 5, the words "lavatory" and "lavatories" are deleted.

~~(4)~~(7)In IRC, Section P2705, a new Item 6 is added as follows: "6. Lavatories. A lavatory shall not be set closer than 12 inches from its center to any side wall or partition. A lavatory shall be provided with a clearance of 24 inches in width and 21 inches in depth in front of the lavatory to any side wall, partition, or obstruction." Remaining item numbers are renumbered accordingly.

(8) In IRC, Section P2801.6.2, 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.

(9) A new IRC, Section, P2801.6.3, is added as follows: "P2801.6.3 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, devises, or equipment.

~~(5)~~(10)~~In~~ IRC, Section P2801.8, ~~all words in the first sentence up to the word "water" are~~ is deleted and replaced with the following: "P2801.8 Water Heater Seismic Bracing. As a minimum requirement, water 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."

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

~~(6)~~(12)A new IRC, Section P2902.1.1, is added as follows: "P2902.1.1 Backflow assembly testing. ~~The premise owner or the premise owner's designee shall have backflow prevention assemblies operation tested in accordance with administrative rules made by the Drinking Water Board 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. 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. USCFCCCHR currently provides the only field testing of backflow protection assemblies. Also see www.drinkingwater.utah.gov and rules made by the Drinking Water Board."~~ Reduced pressure principle, double check, pressure vacuum breaker, reduced pressure detector fire protection double check detector fire protection and spill-resistant vacuum breaker backflow preventer assemblies shall be tested at the time of installation, immediately after repairs or relocation and at least annually. The Utah Cross Connection Control Commission has adopted the field test procedures published by the Manual of Cross Connection Control, Tenth Edition. This manual is published by the University of Southern California's Foundation for Cross-Connection Control and Hydraulic Research. Test gauges shall comply with ASSE 1064."

~~(7)~~(13)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 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. The assembly may not be installed in a pit or below grade where the relief port could be submerged in water or where fumes could be present at the relief port discharge.
b. The relief valve of the assembly shall not be directly connected to a waste disposal line including a sanitary sewer, a storm drain, or a vent.
c. The assembly shall be installed in a horizontal position only, unless listed or approved for vertical installation in accordance with Section 303.4 of the IPC as amended in 15A-3-303(1).
d. The bottom of the assembly shall be installed a minimum of 12 inches above the floor or ground.
e. The body of the assembly shall be a minimum of 12 inches from any wall, ceiling, or obstacle, and shall be readily accessible for testing, repair, and maintenance.

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

a. The assembly shall be installed in a horizontal position only, unless listed or approved for vertical installation.
b. The bottom of the assembly shall be a minimum of 12 inches above the ground or floor.
c. The body of the assembly shall be a minimum of 12 inches from any wall, ceiling, or obstacle, and shall be readily accessible for testing, repair, and maintenance.
d. If installed in a pit, the 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.
A pressure vacuum break assembly or a spill resistant pressure vacuum breaker assembly shall be installed as follows:

a. The assembly shall not be installed in an area that could be subject to backpressure or back drainage conditions.
b. The assembly shall be installed a minimum of 12 inches above all downstream piping and the highest point of use.
c. The assembly shall be a minimum of 12 inches from any wall, ceiling, or obstacle, and shall be readily accessible for testing, repair, and maintenance.
d. The assembly shall not be installed below ground, in a vault, or in a pit.
e. The assembly shall be installed in a vertical position."

(14) IRC, Table P2903.2 is deleted and replaced with the following:

"MAXIMUM FLOW RATES AND CONSUMPTION FOR PLUMBING FIXTURES AND FIXTURE FITTINGS[b]

Plumbing Fixture of Fixture Fitting	Maximum Flow Rate or Quantity
Lavatory faucet	1.5 gpm at 60 psi
Shower head[a]	2 gpm at 80 psi
Sink faucet	2.2 gpm at 60 psi
Water closet	1.28 gallons per flushing cycle

For SI: 1 gallon per minute = 3.785 L/m, 1 pound per square inch = 6.895 kPa.

a. A hand-held shower spray shall be considered to be a shower head

b. Consumtion tolerances shall be determined from reference standards

~~(8)~~(15)In IRC, Section 2903.5, at the beginning of the second sentence, insert "If installed,".

~~(9)~~(16)In IRC, Section P2903.9.3, the first sentence is deleted and replaced with the following: "Unless the plumbing appliance or plumbing fixture has a wall-mount valve, shutoff valves shall be required on each fixture supply pipe to each plumbing appliance and to each plumbing fixture other than bathtubs and showers."

~~(10)~~(17)IRC, Section P2910.5, is deleted and replaced with the following:

"P2910.5 Potable water connections.

~~When a potable water 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.~~ A system that utilizes nonpotable water (i.e., pressurized irrigation) and installs a connection to the potable water system for backup must install a Reduced Pressure Principle Assembly (RP) directly downstream of the potable water connection (Stop and Waste) and install a "swing connection" directly downstream from the (RP) installed so that either the potable water system or the nonpotable water is connected at any time to prevent a direct Cross Connection and to protect the potable water from any potential hazard from the nonpotable water system. (see Utah Code: Title19-4-112) Note: RP must be tested within 10 days of installation and annually whether the drinking water is used or not."

~~(11)~~(18)IRC, Section P2910.9.5, is deleted and replaced with the following:

"P2910.9.5 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 makeup water supply shall be protected against backflow by means of an air gap not less than 4 inches (102 millimeters) above the overflow or by a reduced pressure backflow prevention assembly installed in accordance with Section 2902."

~~(12)~~(19)In IRC, Section P2911.12.4, the following words are deleted: "and backwater valves."

~~(13)~~(20)In IRC, Section P2912.15.6, the following words are deleted: "and backwater valves."

(21) In IRC, Section P3007.3.3.1 Materials, the following is added after the word "PE": stainless steel, cast iron, galvanized steel, brass.

~~(14)~~(22)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, Graywater Systems.~~"P3009 Graywater Soil Absorption Systems: Graywater recycling systems utilized for subsurface irrigation for single-family residences shall comply with the requirements of UAC R317-401, Graywater Systems. Graywater recycling systems utilized for subsurface irrigation for other occupancies shall

comply with UAC R317-3, Design Requirements for Wastewater Collection, Treatment, and Disposal Systems and UAC R317-4, Onsite Wastewater Systems."

~~(15)~~(23)In IRC, Section P~~3103.6~~ 3101.4, 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."

~~(16)~~(24)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 20, 2019 General Session

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

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

(2) In IRC, Section ~~E3901.9~~ E3703.5 the following exception is added:

"Exception: Receptacles or other outlets adjacent to the exterior walls of the garage, outlets adjacent to an exterior wall of the garage, or outlets in a storage room with entry from the garage may be connected to the garage branch circuit."

(3) ~~IRC, Section E3902.16 is deleted.~~

(4) ~~In Section E3902.17:~~

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

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

~~"2. 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."~~

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

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

(6)

(a) When passive radon controls or portions thereof are voluntarily installed, the voluntary installation shall comply with Appendix F of the IRC.

(b) An additional inspection of a voluntary installation described in Subsection (6)(a) is not required.

Amended by Chapter 186, 2018 General Session

Part 3
Statewide Amendments to International Plumbing Code

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

(2) In IPC, Section 202, the following definition is added: "Utah 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) and Utah Administrative Code R309-305."

(3) ~~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."~~

(4) 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")."

(5) 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."

(6) In IPC, Section 202, the definition for "Essentially Nontoxic Transfer Fluid" is deleted and replaced with the following:
"ESSENTIALLY NONTOXIC TRANSFER FLUID. Fluids ~~having a Gosselin rating of 1~~, including propylene glycol; and mineral oil."

(7) 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 any fluid that is not an essentially nontoxic transfer fluid under this code."

(8) ~~In IPC, Section 202, the following definition is added: "High Hazard. See Contamination."~~

(9) ~~In IPC, Section 202, the following definition is added: "Low Hazard. See Pollution."~~

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

(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."~~

(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, Chapter 4,

Safe Drinking Water Act, and Title 19, Chapter 5, Water Quality Act, and the regulations of the public health authority having jurisdiction."

(13) In IPC, Section 202, the following definition is added: "Swing Connection."

Amended by Chapter 20, 2019 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, R309-105-12(4)."

(2) IPC, Section 311.1, is deleted.

(3) 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 drain and vent 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."

(4) 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."

(5) IPC, Section 312.10.2, is deleted and replaced with the following: "312.10.2 Testing. Reduced pressure principle, double check, pressure vacuum breaker, reduced pressure detector fire protection, double check detector fire protection, and spill-resistant vacuum breaker backflow preventer assemblies shall be tested at the time of installation or within 10 days of being placed into service, immediately after repairs or relocation and at least annually. The Utah Cross Connection Control Commission has adopted the field test procedures published by the Manual of Cross-Connection Control, Tenth Edition. This manual is published by the University of Southern California's Foundation for Cross-Connection Control and Hydraulic Research. Test gauges shall comply with ASSE 1064."

(5) (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 20, 2019 General Session

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

(1) In IPC, Table 403.1, the following changes are made:
(a) In row number "3", for in the field for "OTHER", a new footnote h is added.
(b) In row number "5", for "Adult day care and child day care" occupancy, in the field for "OTHER", a new footnote h is added.
(c) Footnote f is deleted and replaced with the following: "FOOTNOTE f: The required number and type of plumbing fixtures for outdoor public swimming pools shall be in accordance with Utah Administrative Code, R392-302 Design, Construction and Operation of Public Pools."
(d) A new footnote g is added as follows: "FOOTNOTE: g: 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 h is added to the table as follows: "FOOTNOTE h: Non-residential child care facilities shall comply with the additional sink requirements of Utah Administrative Code, R381-60-9, Hourly Child Care Centers, R381-70-9, Out of School Time Child Care Programs, and R381-100-9, Child Care Centers."

(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 413.5, is added as follows: "413.5 Public toilet rooms. All public toilet rooms shall be equipped with at least one floor drain."

(4) A new IPC, Section 413.6, is added as follows: "Prohibition of motor vehicle waste disposal wells. New and existing motor vehicle waste disposal wells are prohibited. A motor vehicle waste disposal well associated with a single family residence is not subject to this prohibition."

(5) IPC, Section 423.3, is deleted.

Amended by Chapter 441, 2020 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. As a minimum requirement, water 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. "

(2) In IPC, Section 504.6, a new number 15 is added as follows: "15. Be installed in accordance with the manufacturer's installation instructions, not to exceed 180 degrees in directional change."

(3) 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."

(4) 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, devises, or equipment."

Amended by Chapter 20, 2019 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 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. 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) In IPC, Section 604, Table 604.4 is deleted and replaced with the following:

Table 604.4
MAXIMUM FLOW RATES AND CONSUMPTION FOR PLUMBING FIXTURES AND FIXTURE FITTINGS

Plumbing Fixture of Fixture Fitting	Maximum Flow Rate or Quantity[b]
Lavatory, private	1.5 gpm at 60 psi
Lavatory, public (metering)	0.25 gallon per metering cycle
Lavatory, public (other than metering)	0.5 gpm at 60 psi
Shower head	2 gpm at 80 psi
Sink faucet	2.2gpm at 60 psi

Urinal	0.5 gallon per flushing cycle
Water closet	1.28 gallons per flushing cycle

For SI: 1 gallon per minute = 3.785 L, 1 gallon per minute = 3.785 L/m.

a. A hand-held shower spray shall be considered to be a shower head

b. Consumption tolerances shall be determined from reference standards

~~(3)~~(4)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)~~(5)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)~~(6)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)~~(7)In IPC, Section 608.1, the words "and pollution" are added after the word "contamination."(7) In IPC, Section 608.1, the following subsections are added as follows:

"608.1.1 General Installation Criteria.

An assembly 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 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.

A reduced pressure principle backflow prevention assembly shall be installed as follows:

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

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

c. The assembly shall be installed in a horizontal position, unless the assembly is listed or approved for vertical installation in accordance with Section 303.4.

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

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

608.1.2.2 Double Check Valve Backflow Prevention Assembly.

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

a. The assembly shall be installed in a horizontal position unless the assembly is listed or approved for vertical installation.

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

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

d. If installed in a pit, the assembly shall be installed with a minimum of 12 inches of clearance around 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 Breaker Assembly and Spill Resistant Pressure Vacuum Breaker Assembly.

A pressure vacuum breaker assembly and spill resistant pressure vacuum breaker assembly shall be installed as follows:

a. The assembly shall not be installed in an area that could be subject to backpressure or back drainage conditions.
b. The assembly shall be installed a minimum of 12 inches above all downstream piping and the highest point of use.
c. The assembly shall be a minimum of 12 inches from any wall, ceiling, or obstacle, and shall be readily accessible for testing, repair, and maintenance.
d. The assembly shall not be installed below ground or in a vault or pit.
e. The assembly shall be installed in a vertical position."

~~(7)~~(8)In IPC, Section 608.3, the word "and" before the word "contamination" is deleted and replaced with a comma and the words " or pollution" are added after the word "contamination" in the first sentence.

~~(8)~~(9)In IPC, Section 608.6, the words "with the potential to create a condition of either contamination or pollution or" are added after the word "substances."

~~(9)~~(10)In IPC, Section 608.7, the following sentence is added at the end of the paragraph: "Any direct connection between potable water piping and sewer-connected waste shall be protected by an air gap in accordance with Section 608.14.1."

~~(10)~~(11)IPC, Section 608.8, is deleted and replaced with the following: " 608.8 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. A stop-and-waste valve shall be installed in accordance with a manufacturer's recommended installation instructions."

~~(11)~~(12)IPC, Section 608.14.3, is deleted and replaced with the following: " 608.14.3 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, without chemical treatment, where subject to continuous pressure conditions, and humidifiers in accordance with Section 608.17.10. The relief opening shall discharge by air gap and shall be prevented from being submerged."

~~(12)~~(13)IPC, Section 608.14.4, is deleted.

~~(13)~~(14)IPC, Section 608.16.3, is deleted and replaced with the following: " 608.16.3 Protection by a backflow preventer with intermediate atmospheric vent. Connections to residential boilers only, without chemical treatment, and humidifiers shall be protected by a backflow preventer with an intermediate atmospheric vent."

~~(14)~~(15)IPC, Section 608.16.4, is deleted and replaced with the following: " 608.16.4 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~~ 415.3.1. 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 at the highest point, but 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. The atmospheric vacuum

breaker shall not be installed where it may be subjected to continuous pressure for more than 12 consecutive hours at any time. 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 and above all downstream piping and the highest point of use."

~~(15)~~(16)In IPC, Section 608.16.4.2, 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."

~~(16)~~(17)In IPC, Section 608.17.1.2, the words "or ASSE 1024" are deleted.

~~(17~~(18)IPC, Section 608.17.2, is deleted and replaced as follows: " 608.17.2 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, ASSE 1081.1, or CSA CAN/CSA-B64.3."

~~(18)~~(19)In IPC, Section 608.17.4.1, a new exception is added as follows: "Exception: All class 1 and2 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."

~~(19)~~(20)IPC, Section 608.17.7, is deleted and replaced with the following: " 608.17.7 Chemical dispensers. Where chemical dispensers connect to the water distribution system, the water supply system shall be protected against backflow in accordance with Section 608.14.1, Section 608.14.2, Section 608.14.5, Section 608.14.6 or Section 608.14.8. Installation shall be in accordance with Section 608.1.2. Chemical dispensers shall connect to a separate dedicated water supply line, and not a sink faucet."

~~(20)~~(21)IPC, Section 608.17.8, is deleted and replaced with the following: " 608.17.8 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 608.14.1 or Section 608.14.2."

~~(21)~~(22)A new IPC, Section 608.17.11, is added as follows: " 608.17.11 Automatic and coin operated car washes. The water supply to an automatic or coin operated car wash shall be protected in accordance with ~~Section 608.14.1 or~~ Section 608.14.2."

~~(22)~~(23)IPC, Section 608.18, is deleted and replaced with the following: " 608.18 Protection of individual water supplies. See Section 602.3 for requirements."

Amended by Chapter 20, 2019 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) A new IPC Section 701.8 is added as follows: "701.8 Drainage piping in food service areas. Exposed soil or waste piping shall not be installed above any working, storage, or eating surfaces in food service establishments."
(3) In IPC, Section 712.3.3.1, the following words are added after the word "PE": "stainless steel, cast iron, galvanized steel, brass,".

Amended by Chapter 20, 2019 General Session

15A-3-308 Amendments to Chapter 8 of IPC.
In IPC, Section 802.1.1, the last sentence is deleted.

Amended by Chapter 249, 2016 General Session

15A-3-309 Amendments to Chapter 9 of IPC.
(1) In IPC, Section 903.1.1, when the number of inches is to be specified, "12 inches (304.8mm)" is inserted.
(2) ~~In~~ A new IPC~~, Section 903.6 the following sentence is added at the end of the paragraph~~: Section 903.7 is added as follows: 903.7 "Extension through a wall. "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.
(1) A new section 1002.4.1.6 is added as follows: "1002.4.1.6 Deep Seal Trap"
(2) In IPC, Section 1003.3.8, the word "gravity" is inserted before the word "grease."

Amended by Chapter 20, 2019 General Session

15A-3-311 Amendments to Chapter 11 of IPC.
(1) A new IPC, Section 1106.1.1, is added as follows:
"1106.1.1 Alternate Methods.
An approved alternate storm drain sizing method may be allowed."
(2) IPC, Section 1109, is deleted.

Amended by Chapter 249, 2016 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) A new IPC, Section 1301.4.1, is added as follows:

"1301.4.1 Recording.

The existence of a nonpotable 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 water system is connected to a nonpotable 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) A new section 1301.5.1 is added as follows: "1301.5.1 A system that utilizes nonpotable water (i.e., pressurized irrigation) and installs a connection to the potable water system for backup must install a Reduced Pressure Principle Assembly (RP) directly downstream of the potable water connection (Stop and Waste) and install a "swing connection" directly downstream from the (RP) installed so that either the potable water system or the nonpotable water is connected at any time to prevent a direct Cross Connection and to protect the potable water from any potential hazard from the nonpotable water system. (see Utah Code: Title19-4-112) Note: RP must be tested within 10 days of installation and annually whether the drinking water is used or not."

~~(3)~~(4) IPC, Section 1301.9.4, is deleted and replaced with the following:

" 1301.9.4 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)~~(5)IPC, Section 1302.12.4, is deleted and replaced with the following:

"1302.12.4 Inspection and testing of backflow prevention assemblies.

Testing of a backflow preventer shall be conducted in accordance with Sections 312.10.1, 312.10.2, and 312.10.3."

~~(5)~~(6)IPC, Section 1303.15.6, is deleted and replaced with the following:

"1303.15.6 Inspection and testing of backflow prevention assemblies.

Testing of a backflow prevention assembly shall be conducted in accordance with Sections 312.10.1, 312.10.2, and 312.10.3."

~~(6)~~(7)IPC, Section 1304.4.2, is deleted and replaced with the following:

"1304.4.2 Inspection and testing of backflow prevention assemblies.

Testing of a backflow preventer or backwater valve shall be conducted in accordance with Sections 312.10.1, 312.10.2, and 312.10.3."

Amended by Chapter 441, 2020 General Session

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

IPC, Chapter 14, is deleted and replaced with the following:

"1401. Subsurface Landscape Irrigation Systems.

Graywater recycling systems utilized for subsurface irrigation for single-family residences shall comply with the requirements of UAC R317-401, Graywater Systems. Graywater recycling systems utilized for subsurface irrigation for other occupancies shall comply with UAC R317-3, Design

Requirements for Wastewater Collection, Treatment, and Disposal Systems, and UAC R317-4, Onsite Wastewater Systems."

Amended by Chapter 20, 2019 General Session

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

(1) In IPC, Chapter 15, the following reference standards are deleted:
ASSE 5013-2015, ASSE 5015–2015. ASSE 5020-2015, ASSE 5047-2015, ASSE 5048-2015, ASSE 5052-98, ASSE 5056-2015, CSA B64.10-17, and CSA B64.10.1-17.

(2) In IPC, Chapter 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~~ Section 312.10.2"

Enacted by Chapter 249, 2016 General Session

Part 4 Statewide Amendments to International Mechanical Code

15A-3-401 General provisions.

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

(2) In IMC, Section 1004.2, the first sentence is deleted and replaced with the following: "In accordance with Title 34A, Chapter 7, Safety, and requirements made by rule by the Labor Commission, 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 and the state boiler code, whichever is greater."
(3) In IMC, Section 1004.3.1, the word "unlisted" is inserted before the word "boilers".
(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 20, 2019 General Session

15A-3-402 Amendments to Chapters 1 through 5 of IMC.

(1) In IMC, Table 403.3.1.1, note h is deleted and replaced with the following:

"h. 1. A nail salon shall provide each manicure station 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, with:
a. a source capture system equipped with, at minimum, a MERV 8 particulate filter and an activated carbon filter that is capable of filtering and recirculating air to inside space at a rate not less than 50 cfm per station; or
b. a source capture system capable of exhausting not less than 50 cfm per station.
c. A nail salon that complies with Note h.l.a or h.l.b is not required to comply with the labeling, listing, or testing requirements described in International Mechanical Code sections 301.7 or 301.8.

2. For a source capture system described in paragraph 1, the source capture system inlets for exhausting or recirculating air shall be located in accordance with Section 502.20.
3. Where one or more exhausting source capture systems described in paragraph 1 operate continuously during occupancy, the source capture system exhaust rate shall be permitted to be applied to the exhaust flow rate required by Table 403.3.1.1 for the nail salon.

4. The requirements of this note apply to:
a. an existing nail salon that remodels the nail salon after July 1, 2017;
b. a new nail salon that begins construction after July 1, 2017; and
c. all nail salons beginning on July 1, 2020."

(2) In IMC, Section 502.20 is deleted and rewritten as follows:

"502.20 Manicure stations. A nail salon that files or shapes an acrylic nail shall provide each manicure station with a source capture system in accordance with Table 403.3.1.1, note h. For a manicure table that does not have factory-installed source capture system inlets for recirculating or exhausting air, a nail salon shall provide the manicure table with inlets for recirculating or exhausting air located not more than 12 inches (305 mm) horizontally and vertically from the point of any acrylic chemical application. Exception: Section 502.20 applies to a manicure station in:

a. an existing nail salon that remodels the nail salon after July 1, 2017;
b. a new nail salon that begins construction after July 1, 2017; and

c. all nail salons beginning on July 1, 2020."Amended by Chapter 441, 2020 General Session

Part 5
Statewide Amendments to International Fuel Gas Code

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 502.1, the last sentence is deleted and replaced with "Plastic vents for Category IV appliances shall not be required to be listed and labeled where such vents comply with all of the following:
   1. specified by the appliance manufacturer;
   2. installed in accordance with the appliance manufacturer's instructions; and
   3. the vent gas temperatures do not exceed 140 degrees Fahrenheit."

(4) In IFGC, Section 503.4.1, in the last sentence after "appliance manufacturer" insert: "where the appliance vent gas temperatures do not exceed 140 degrees Fahrenheit,".

(5) In IFGC, Section 503.6.11.1, the following exception is added:
"Exception: Existing and replacement Category I appliances may be located in rooms within the occupiable space provided all the following are met:
   1. The original installation was compliant with existing codes at the time of installation.
   2. The dwelling is equipped with a current, operable carbon monoxide detector, installed in accordance with Section 915 of the International Building Code.
   3. The AHJ has approved a replacement based on the extreme difficulty of an installing individual Category I vent system or a direct vent Category IV appliance.
   4. The room or space is used for no other purpose.
   5. Combustion air is provided in accordance with Section 304. Where outdoor combustion air is provided, the room has a solid weather-stripped door equipped with an approved self-closure device.
   6. Common vents terminate with a listed cap."

(6) In IFGC, Section 631.2, the following sentence is inserted before the first sentence: "In accordance with Title 34A, Chapter 7, Safety, and requirements made by rule by the Labor Commission, 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 and the state boiler code, whichever is greater." Amended by Chapter 20, 2019 General Session

Part 6
Statewide Amendments to National Electrical Code

15A-3-601 General provisions.

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 residential installations under the IRC. All other installations shall comply with the adopted NEC.

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

(3) NEC, Section 210.71, is deleted.

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

Amended by Chapter 186, 2018 General Session

Part 7
Statewide Amendments to International Energy Conservation Code

15A-3-701 General provisions.

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

(1) In IECC, Section C403.11.2.3, the words "by the designer" are deleted.

(2) 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."

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

(4) In IECC, Section R401.2, a new number 4 is added as follows:

"4. Compliance may be shown by demonstrating a result, using the software RES Check 2012 Utah Energy Conservation Code, of:

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

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

and(c) after January 1, 2021, "5 percent better than code"."

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

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

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

(7) In IECC, Section R402.4.1.1, the last sentence is deleted and replaced with the following: "Where allowed by the code official, the builder may certify compliance to components criteria for items which may not be inspected during regularly scheduled inspections."

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

(a) In the first sentence:

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

(ii) after January 1, 2019, replace the word "five" with "3.5"; and
(iii) the words "in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8" are deleted.
(b) The following sentence is inserted after the first sentence: "A multi-family dwelling and townhouse shall be tested and verified as having an air leakage rate of not exceeding five air changes per hour."
(c) In the third sentence, the word "third" is deleted.
(d) 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."
(9) In IECC, Section R403.3.3:
(a) the exception for duct air leakage testing is deleted; and
(b) the exception for duct air leakage is replaced:
(i) on or after January 1, 2017, and before January 1, 2019, with the following: "Exception: The total leakage test is not required for systems with all air handlers and at least 65% of all ducts (measured by length) located entirely within the building thermal envelope.";
(ii) on or after January 1, 2019, and before January 1, 2021, with the following: "Exception: The duct air leakage test is not required for systems with all air handlers and at least 75% of all ducts (measured by length) located entirely within the building thermal envelope."; and
(iii) on or after January 1, 2021, with the following: "Exception: The duct air leakage test is not required for systems with all air handlers and at least 80% of all ducts (measured by length) located entirely within the building thermal envelope."
(10) In IECC, Section R403.3.3, the following is added after the exception:
"The following parties shall be approved to conduct testing:
1. Parties certified by BPI or RESNET.
2. Licensed contractors who have completed training provided by Duct Test equipment manufacturers or other comparable training."
(11) In IECC, Section R403.3.4:
(a) in Subsection 1, the number 4 is changed to 8, the number 113.3 is changed to 170, the number 3 is changed to 6, and the number 85 is changed to 114.6; and (b) in Subsection 2:
(i) on or after January 1, 2017, and before January 1, 2019, the number 4 is changed to 8 and he number 113.3 is changed to 226.5;
(ii) on or after January 1, 2019, and before January 1, 2021, the number 4 is changed to 7 and the number 113.3 is changed to 198.2; and
(iii) on or after January 1, 2021, the number 4 is changed to 6 and the number 113.3 ischanged to 169.9.
(12) In IECC, Section R403.3.5, the words "or plenums" are deleted.
(13) In IECC, Section R403.5.3, Subsection 5 is deleted and Subsections 6 and 7 are renumbered.
(14) IECC, Section R403.6.1, is deleted and replaced with the following: "R403.6.1 Whole-house mechanical ventilation system fan efficacy. Fans used to provide whole-house mechanical ventilation shall meet the efficacy requirements of Table R403.6.1.

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

(15) In IECC, Section R403.6.1, the table is deleted and replaced with the following:

TABLE R403.6.1
MECHANICAL VENTILATION SYSTEM FAN EFFICACY

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

(16) In IECC, Section R406.4, the table is deleted and replaced with the following:

TABLE R406.4
MAXIMUM ENERGY RATING INDEX

CLIMATE ZONE	ENERGY RATING INDEX
3	65 5 69
6	68

Amended by Chapter 20, 2019 General Session

Part 8
Statewide Amendments to International Existing Building Code

15A-3-801 General provisions.

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

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

(2) In Section 202, the definition for "code official" is deleted and replaced with the following: "CODE OFFICIAL. The officer or other designated authority having jurisdiction (AHJ) charged with the administration and enforcement of this code."

(3) In Section 202, the definition for existing buildings is deleted and replaced with the following: "EXISTING BUILDING. A building that is not a dangerous building and that was either lawfully erected under a prior adopted code, or deemed a legal non-conforming building by the code official."

(4) In Section 301.3, the exception is deleted.

(5) In Section 305.4.2, number 7 is added after number 6 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% 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."

(6) Section 503.6 is deleted and replaced with the following:
"503.6 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% 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. Reduced seismic forces are permitted for design purposes."

(7) In Section 705.1, Exception number 3, the following is added at the end of the exception: "This exception does not apply if the existing facility is undergoing a change of occupancy classification."

(8) Section 706.3.1 is deleted and replaced with the following:
"706.3.1 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 303 of this code unless an evaluation demonstrates compliance of such items."

(9) Section 906.6 is deleted and replaced with the following:
"906.6 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% 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 with such items. Reduced seismic forces are permitted for design purposes."

(10)

(a) Section 1006.3 is deleted and replaced with the following:
"1006.3 Seismic Loads. Where a change of occupancy results in a building being assigned to a higher risk category, or when a change of occupancy results in a design occupant load increase of 100% or more, the building shall satisfy the requirements of Section 1613 of the International Building Code using full seismic forces."

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

(c) In Section 1006.3, add a new exception ~~4~~ 5 as follows:
"~~4~~5. Where the design occupant load increase is less than 25 occupants and the occupancy category does not change."

(11) In Section 1012.7.3, exception 2 is deleted.

Amended by Chapter 441, 2020 General Session

Part 9
Installation and Safety Requirements for Mobile Homes Built Before June 15, 1976

15A-3-901 General provisions.

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 United States 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 a single-section home have the doors no less than 12 feet, center-to-center, from each other, and a multi section home have the 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-inchhigh 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 any one 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 overcurrent 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 fire places 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 3/8inch 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 MHCSS3280.810, 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 (GFCI) 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 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. Enacted by Chapter 249, 2016 General Session

Part 10 Statewide Amendments to International Swimming Pool and Spa Code

15A-3-1001 General provisions.

(1) In ISPSC, Section 202, the following definition is added for private residential swimming pool: "PRIVATE RESIDENTIAL SWIMMING POOL. A swimming pool, spa pool, or wading pool used only by an individual, family, or living unit members and guests, but not serving any type of multiple unit housing complex of four or more living units."
In ISPSC, Section 202, the definition for Residential Swimming Pool (Residential Pool) is deleted and replaced with the following: "See the definition for Private Residential Swimming Pool".

(2) In ISPSC, Section 320.1, the following changes are made:

(a) the words "or storm" are deleted;

(b) the words "onsite waste water" are added before the word "disposal"; and

(c) the words "or shall be disposed of by other means approved by the state or local authority" are deleted.

Enacted by Chapter 441, 2020 General Session

Chapter 4 Local Amendments Incorporated as Part of State Construction Code

Part 1 Local Amendments to International Building Code

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-4-105 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.

1. All new construction having more than 6,000 square feet on any one floor, except R-3 occupancy.
2. All new construction having more than two (2) stories, except R-3 occupancy.
3. All new construction in the Historic Commercial Business zone district, regardless of occupancy.
4. 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.
5. All existing building within the Historic District Commercial Business zone."; and

(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"

Amended by Chapter 341, 2017 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 (2) of the 2018 International Fire Code. A one- or two-family dwelling or a town home is not required to have a fire sprinkler system except in accordance with Section 15A-5-203."

(2) A new IBC, Appendix N, is added and adopted as follows: "Appendix N 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."

(3) In Section 504 of the IWUIC Class I IGNITION-RESISTANT CONSTRUCTION a new Section504.1.1 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 code official, where defensible space is less than 50 feet as defined in Section 603 of the 2006 International Wildland-Urban Interface Code."

(4) In Section 505 of the IWUIC Class 2 IGNITION-RESISTANT CONSTRUCTION Subsections505.5 and 505.7 are deleted.

Amended by Chapter 20, 2019 General Session

Part 2
Local Amendments to International Residential Code

15A-4-201 General provision.

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

Amended by Chapter 341, 2017 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 Section504.1.1 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 Subsections505.5 and 505.7 are deleted."

Enacted by Chapter 14, 2011 General Session

Part 3
Local Amendments to International Plumbing Code

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

UNIFORM BUIILDING CODE COMMISSION
ARCHITECTURAL ADVISORY COMMITTEE
UNIFIED CODE ANALYSIS COUNCIL

JOINT MEETING

October 5, 2021 9:00 am

STAFF
Steve Duncombel, Bureau Manager
Sharon Smalley, Board Secretary

ARCHITECTURAL COMMITTEE

David Triplett	Mark Stonehocker
John Chase (excused)	Chris Weintz
Bryan Romney	Max Angle (absent)

UNIFIED CODE ANALYSIS COUNCIL MEMBERS

Rick Sturm (absent)	Dave Vickers
James Williams	Todd Hohbein
Malcolm Campbell	Thomas Peterson
Paul Bauer	Don Brinkerhoff
Dan DeVooge	Dave Powers (absent)
Vince Newbert	

VISITORS

Chris Hendrickson	Bryan Markkanen

MINUTES

A motion was made by Bryan Romney to approve the minutes from the June 1. 2021 joint meeting as written. The motion was seconded by Dave Triplett and passed unanimously.

CONTINUE WITH REVIEW OF 2021 IBC STARTING WITH DEFINITIONS IN CHAPTER 2, 3 AND 4 AND CURRENT AMENDMENTS FOR THOSE CHAPTERS

Malcolm Campbell gave his review of the definetions in Chapter 2 and amendments for Chapter 3 and 4. He is recommending several changes to the definitions. He reported that most of the changes he is recommending are to simplify or clarify the current amendments. Those present reviewed his recommendations for changes.

Following the review and discussion, a motion was made by Dave Triplett to approve all of the recommendations made by Malcom Campbell ex-

cept for the proposal for a new amendment for Section 407.3.1.1 and 407.4.1 which need to be reviewed at the November meeting. The motion was seconded by James Williams and passed unanimously.

Dave Triplett will submit proposals for corrections to amendments for Chapter 10 and Chris Weintz will review Chapter 11 and amendments. Any recommended changes will be reviewed at the November meeting.

The November meeting will be held electronically only.

The meeting adjourned at 11:16.

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.

MINUTES

UNIFORM BUILDING CODE COMMISSION
MECHANICAL ADVISORY COMMITTEE

Meeting

August 10, 2021 3:00 pm

Convened 3:02 PM Adjourned 4:56

STAFF:
Steve Duncombe, Bureau Manager
Sharon Smalley, Board Secretary

MECHANICAL ADVISORY COMMITTEE:

David Halverson	David Wilson
Clay Monroe	Chris Jensen
Terry Palmer	Trent Hunt, Commission Liaison (absent)

VISITORS:

Peter Nelson	Kevin Emerson, Utah Clean Energy
Alyssa Kay	Thomas Kessinger, Utah Clean Energy
Nicholas Schou	Helena Baer, Governor's Office of Energy Development
Tyler Poulson	Rob Salcido, Pacific Northwest Laboratory

MINUTES	A motion was made by Chris Jensen to approve the minutes from the June 8, 2021 meeting as written. The motion was seconded by Terry Palmer and passed unanimously.
REVIEW CURRENT AMENDMENT FOR TABLE 403.3.1.1 AND SECTION 502.20	The discussion and recommendation for this item was tabled until the next meeting.
REVIEW CURRENT IFGC SECTION 631.2	A motion was made by Dave Wilson to keep the current amendment for Section 631.2 of the IFGC. The motion was seconded by Chris Jensen and passed unanimously.
START THE REVIEW OF THE	The committee started their review of the mechanical portion of the 2021 IRC. A motion was made by Chris

MECHANICAL AND FUEL GAS PORTION OF THE 2021 IRC

Jensen to accept the changes made to Section M1505 The motion was second by Clay Monroe and passed unanimously.

A motion was made by Chris Jensen to accept the addition of Section M1802.4. The motion was seconded by Dave Wilson and passed unanimously.

A motion was made by Dave Wilson to accept the changes in Section M2101. The motion was seconded by Clay Monroe. During the discussion on the motion, the motion was modified to include Sections M2103.1 and M2105.7. The second agreed with the modification to the motion and the modified motion passed unanimously.

The committee reviewed the two current amendments to the mechanical portion of the 2015 IRC. A motion was made by Dave Wilson to keep the current amendment to Section M1307.2. The motion was seconded by Chris Jensen and passed unanimously.

The decision for the current amendment to Section M1411.8 was tabled until further information can be gathered. It was pointed out that the section number will need to be changed to M1411.9 if the amendment is kept.

A motion was made by Chris Jensen to accept the addition of new section M1411.8. The motion was seconded by Terry Palmer and passed unanimously.

A motion was made by Chris Jensen to modify the current amendment to M1602.2 by changing the number "6" to number "7". The motion was seconded by David Wilson and passed unanimously.

The committee reviewed the significant changes to the fuel gas portion of the 2021 IRC. Following their review, a motion was made by Terry Palmer to accept the changes made to G2403 Definitions of Point of Delivery and Service Meter Assembly, G2414.8.3 Threaded joint Sealing, G2415.5 Fittings in Concealed Locations, G2427.5.5.1 Chimney Lining, G2427.8 Through-the-

wall Vent Terminal Clearances, G2439.5 Makeup Air for Dryer Installed in a Closet, and G2447.2 Commercial Cooking Appliances Prohibited. The motion was seconded by Dave Wilson and passed unanimously.

A motion was made by Dave Wilson to keep the current amendment to Section G2401.2. The motion was seconded by Clay Monroe and passed unanimously.

START THE REVIEW OF THE ENERGY PORTION OF THE 2021 IRC

Kevin Emerson, Thomas Kessinger and Rob Salcido spoke to the committee in connection with the energy portion of the 2021 IRC.

The committee discussed how they were going to start the review of the energy code. It was decided to start first with the review of the energy portion of the 2021 IRC and then review the commercial provision of the 2021 IECC.

The meeting adjourned at 4:56.

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.

MINUTES

UNIFORM BUILDING CODE COMMISSION
ELECTRICAL ADVISORY COMMITTEE

Meeting

August 12, 2021 3:00 pm

Convened: 3:10 pm

Adjourned: 5:03 pm

STAFF
Stephen Duncombe, Bureau Manager
Sharon Smalley, Board Secretary

ELECTRICAL ADVISORY COMMITTEE MEMBERS

Jason VanAusdal
Joseph Taft (excused)
David Winger (excused)
Bryan Romney
Art Anderson, Commission Liaison (absent)
Rhett Butler
Steve Woodman
Willie Chidester

VISITORS
Chris Jensen, UL

Willie Chidester was welcomed as a new member of this committee. He gave a brief summary of his background.

MINUTES

A motion was made by Rhett Butler to approve the minutes from the June 10, 2021 meeting as written. The motion was seconded by Bryan Romney and passed unanimously.

CONTINUE WITH THE REVIEW OF THE ELECTRICAL PORTION OF THE 2021 IRC STARTING WITH CHAPTER 36

The committee started their review with Chapter 39. They reviewed the changes from the 2015 edition to the 2018 edition and then from the 2018 to the 2021.

Bryan Romney gave his review. He reported that he found no major changes that would have a significant cost increase.

Jason VanAusdal gave his review of the remaining sections of the chapter. He found no major changes that would have a significant cost increase.

A motion was made by Bryan Romney to delete the current amendment for Section E3902.16. The motion was seconded by Steve Woodman and passed unanimously.

A motion was made by Bryan Romney to delete the current amendment for E3902.17. The motion died due to the lack of a second. Following further discussion, a second motion was made by Bryan Romney to delete the current amendment to Section E3902.17. The motion was seconded by Rhett Butler and passed unanimously.

Steve Woodman gave his review of Chapter 40 and 41. He found no significant changes. He pointed out the some of the changes were for clarification or had a minimal cost affect.

A motion was made by Bryan Romney to accept the changes in Chapter 40 and 41. The motion was seconded by Rhett Butler and passed unanimously.

At the September meeting the committee the will complete their review of the electrical portion of the 2021 IRC and the remaining current amendments.

The meeting adjourned at 5:03.

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.

MINUTES

UNIFORM BUILDING CODE COMMISSION
ELECTRICAL ADVISORY COMMITTEE

Meeting

September 9, 2021 3:00 pm

Convened: 3:03 pm Adjourned: 3:33 pm

STAFF
Stephen Duncombe, Bureau Manager
Sharon Smalley, Board Secretary

ELECTRICAL ADVISORY COMMITTEE MEMBERS

Jason VanAusdal	Art Anderson, Commission Liaison (excused)
Joseph Taft	Rhett Butler (excused)
David Winger (absent)	Steve Woodman
Bryan Romney	Willie Chidester

VISITORS
Chris Jensen, UL

MINUTES

A motion was made by Steve Woodman to approve the minutes from the August 12, 2021 meeting as written. The motion was seconded by Willie Chidester and passed unanimously.

CONTINUE WITH THE REVIEW OF THE ELECTRICAL PORTION OF THE 2021 IRC

The committee continued with their review of the electrical portion of the 2021 IRC. Rhett Butler was unable to attend the meeting but emailed his findings for his review. He found no significant changes that would have a cost impact. A motion was made by Steve Woodman to accept Section 3907 and the remaining chapters of the electrical portion as presented. The motion was seconded by Willie Chidester and passed unanimously.

A motion was made by Steve Woodman to delete the current amendment for Section

E3705.4.5. The motion was seconded by Joseph Taft and passed unanimously.

Brian Romney reported that he reviewed all of the recent legislative bills and found no changes that needed to be made to the electrical portion of the 2021 IRC.

At the October meeting, the committee will do a final review and make their recommendation for the Uniform Building Code Commission to review.

The meeting adjourned at 3:33.

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.

MINUTES

UNIFORM BUILDING CODE COMMISSION
ELECTRICAL ADVISORY COMMITTEE

Meeting

October 14, 2021 3:00 pm

Convened: 3:03 pm Adjourned: 3:43 pm

STAFF
Stephen Duncombe, Bureau Manager
Sharon Smalley, Board Secretary

ELECTRICAL ADVISORY COMMITTEE MEMBERS

Jason VanAusdal (excused)	Art Anderson, Commission Liaison
Joseph Taft	Rhett Butler
David Winger (absent)	Steve Woodman
Bryan Romney	Willie Chidester (excused)

VISITORS

MINUTES	A motion was made by Steve Woodman to approve the minutes from the September 9, 2021 meeting as written. The motion was seconded by Bryan Romney and passed unanimously.
FINAL REVIEW OF THE ELECTRICAL PORTION OF THE 2021 IRC	The committee reviewed their recommendations for the electrical portion of the 2021 IRC and the excel spreadsheet with the costs. The majority of the changes that have been reviewed were for clarification. No further recommendations were made for changes or new amendments. Joseph Taft will work with Jason Van Ausdal to combine the two excel worksheets for a final report for the Commission.
MAKE A RECOMMENDATION TO THE UBC COMMISSION FOR THE ELECTRICAL PORTION OF THE 2021 IRC	The committee will make their final recommendation at the December 9th meeting.

REVIEW CHAPTER 27 OF THE 2021 IBC	The committee reviewed this chapter and made no recommendations for changes. The committee is asking the Mechanical Advisory Committee to review Section 2702.1.2 for their input on the cost

The meeting adjourned at 3:52.

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.

MINUTES

UNIFORM BUILDING CODE COMMISSION
PLUMBING /HEALTH ADVISORY COMMITTEE
MEETING

September 2, 2021 9:00

Meeting

CONVENED: 9:02 ADJOURNED: 10:38

STAFF:
Steve Duncombe, Bureau Manager
Sharon Smalley, Secretary

COMMITTEE MEMBERS:

Nathan Lunstad
Andrea Gamble (excused)
Travis Hales (absent)
Jeff Brown (absent)
Dean Johnson
Linda Ebert
Jeremy Haslam
Don Simons
Rob Allen

VISITORS:

MINUTES	A motion was made by Linda Ebert to approve the minutes from the June 3, 2021 meeting as written. The motion was seconded by Jeremy Haslam and passed unanimously.
ROLL CALL AND WELCOME NEW COMMITTEE MEMBERS	The two new members of this committee, Dean Johnson and Rob Allen, introduced themselves and gave a brief background.
CONTINUE WITH THE REVIEW OF THE PLUMBING PORTION OF THE 2021 IRC AND CURRENT AMENDMENTS	The committee decided to postpone the review of the current amendments until the October meeting.
REVIEW PROPOSED AMEND-MENTS FOR SECTIONS P2508.2, P2602.1, P2801.6.3, P2804.6.1, 15A-3-205(6), P2902.1.2.1, P3007.3.3.1, AND P3009	The committee reviewed the proposals for the plumbing sections of the 2021 IRC. The following motions were made after each proposal was re-viewed. A motion was made by Rob Allen to accept the proposal for a new amendment for Sections

P2503.8.1 and P2508.2. The motion was seconded by Linda Ebert and passed unanimously.

It was pointed out that the Section P2509.3 should be P2503.9. No recommendation was made for an amendment to this section.

A motion was made by Dean Johnson to accept the proposal to add a new amendment for Section P2602.1. The motion was seconded by Rob Allen and passed unanimously.

A motion was made by Jeremy Haslam to accept the proposal for a new amendment for Section P2801.6.2. The motion was seconded by Dean Johnson and passed unanimously.

A motion was made by Rob Allen to accept the proposal for a new amendment for Section P2801.6.3. The motion was seconded by Dean Johnson and passed unanimously.

A motion was made by Jeremy Haslam to accept the proposal to modify the current amendment for Section P2801.8. The motion was seconded by Rob Allen and passed unanimously.

A motion was made by Don Simons to accept the proposal to add a new amendment for Section P2804.6.1. The motion was seconded by Rob Allen and passed unanimously.

A motion was made by Don Simons to accept the proposal to modify the current amendment for Section P2902.1.1. The motion was seconded by Dean Johnson and passed unanimously.

A motion was made by Rob Allen to modify the current amendment for 15A-3-205(7) for section P2902.1.2.1. The motion was seconded by Jeremy Haslam and passed unanimously.

The recommendation for this section will be reviewed at the next meeting for a possible amendment to modify the current amendment for 15A-3-205(10).

Rob Allen left the meeting at this point.

A motion was made by Don Simons to delete the current amendment to 15A-3-205(14). The motion was seconded by Dean Johnson and passed unanimously.

A motion was made by Dean Johnson to modify the current amendment 15A-3-205(16) by changing the section number to P3101.4. The motion was seconded by Don Simons and passed unanimously.

A motion was made by Jeremy Haslam add a new amendment to Section P3007.3.3.1. The motion was seconded by Don Simons and passed unanimously.

A motion was made by Dean Johnson to accept the proposal to add a new amendment for Section P3009. The motion was seconded by Don Simons and passed unanimously.

This committee is asking the Electrical Advisory committee to review Chapter 42.

The meeting adjourned at 10:38.

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.

MINUTES

UNIFORM BUILDING CODE COMMISSION
PLUMBING /HEALTH ADVISORY COMMITTEE
MEETING

October 7, 2021 9:00

Meeting

CONVENED: 9:09 ADJOURNED: 10:37

STAFF:
Steve Duncombe, Bureau Manager
Sharon Smalley, Secretary

COMMITTEE MEMBERS:

Nathan Lunstad
Andrea Gamble (excused)
Travis Hales (absent)
Jeff Brown
Dean Johnson
Linda Ebert
Jeremy Haslam
Don Simons (absent)
Rob Allen (excused)

VISITORS:
Bart Forsyth, Jordan Valley Water District
Senator Jani Iwamoto

MINUTES

A motion was made by Linda Ebert to approve the minutes from the September 2, 2021 meeting as written. The motion was seconded by Jeremy Haslam and passed unanimously.

REVIEW PROPOSED AMENDMENT FOR IPC SECTION 604

Senator Iwamoto and Bart Forsyth spoke to the committee in connection with the proposed amendment to the IPC Section 604, Table 604.4. Mr. Forsyth gave a slide presentation in connection with the proposal to give the committee additional information and some statistics.

Following the presentation, Linda Ebert suggested that the proposal also be added to the IRC Table P2903.2 to keep the codes consistent. She also suggested that this recommendation also be addressed with the sewer districts to see if this would cause any additional problems.

	Following the discussion, a motion was made by Dean Johnson to approve the proposal but change the proposal to the 2021 IPC and to add IRC Table P2903.2. The motion was seconded by Jeremy Haslam and passed unanimously.
	The committee reviewed the current amendment for IRC Section P2910.5. Following the discussion the committee agreed to postpone the decision so further review could be done. Nathan and Linda will work on a proposed amendment.
REVIEW CURRENT AMENDMENT FOR 15A-3-205(10) FOR SECTION 2910.5	The committee reviewed the current amendment for this section. It was pointed out that the referenced section number needs to be changed to 2902.3.1 and 2902.3.5. Following further discussion it was decided to do further study before a recommendation can be made.
CONTINUE WITH THE REVIEW OF THE PLUMBING PORTION OF THE 2021 IRC AND CURRENT AMENDMENTS	The committee will continue with their review at the November meeting. Jeremy Haslam will follow up on Section P2801.6.2. The committee will do a final review of all current and proposed amendments.

The meeting adjourned at 10:38.

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.

MINUTES

UTAH
UNIFORM BUILDING CODE COMMISSION
STRUCTURAL ADVISORY COMMITTEE
MEETING

August 5, 2021 3:00

CONVENED: 3:20 ADJOURNED 4:46

STAFF:
Sharon Smalley, Board Secretary

COMMITTEE MEMBERS:
Jeremy Achter
Oliver Burt (absent)
John Saunders
Tyler Wright
Josh Blazzard, Commission Liaison (excused)
Patrick Tomasino
Brent Maxfield (excused)

VISITORS:

MINUTES

A motion was made by Tyler Wright to approve the minutes form the July1, 2021 meeting as written. The motion was seconded by Patrick Tomasino and passed unanimously.

REVIEW OF CHAPTERS 1-3 FROM PATRICK TOMASINO

Mr. Tomasino reviewed the changes he found in Chapters 1-2 of the 2021 IEBC. Following the review, a motion was made by Jeremy Achter to modify the current amendment for IEBC (10)(c) to change the exception number from "4" to '5". The motion was seconded by Patrick Tomasino and passed unanimously.

The committee agreed that the recommendation for amendments (5) Section 305.4.2, (7) Section 705.1 & (11) Section 1012.7.3 needs to be made by the Architectural Advisory Committee.

A motion was made by Jeremy Achter to keep the current amendments for the IEBC number (1) Section 202, (2) Section 202, (3) Section 202, (4) Section 301.3, (6) Section 503.6, (8) Section 706.3.1 and (9) Section 1006.3. The motion was seconded by Patrick Tomasino and unanimously.

Chapter 3 will be covered at the next meeting.

Jeremy Achter gave a review of Chapters 1-3 of the 2021 IRC. He found no significant changes.

Tyler Wright gave a review of Chapter 10, 13 and 18 of the 2021 IRC. He reported that he found no changes that pertained to structural.

The meeting adjourned at 4:46.

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.

MINUTES

UTAH
UNIFORM BUILDING CODE COMMISSION
STRUCTURAL ADVISORY COMMITTEE
MEETING

September 2, 2021 3:00

CONVENED: 3:08

ADJOURNED 4:53

STAFF:
Steve Duncombe, Bureau Manager
Sharon Smalley, Board Secretary

COMMITTEE MEMBERS:
Jeremy Achter
Oliver Burt
John Saunders
Tyler Wright

Josh Blazzard, Commission Liaison
Patrick Tomasino
Brent Maxfield

VISITORS:
Deron Brunson

Tom Peterson

MINUTES	A motion was made by Patrick Tomasino to approve the minutes form the August 5, 2021 meeting as written. The motion was seconded by Tyler Wright and passed unanimously.
REVIEW PROPOSED AMENDMENTS FOR 2018 IBC SECTION 1901.3 & 2015 IRC SECTION R403.1.6	The committee reviewed the two proposed amendments. Deron Brunson spoke to the committee in connection with his amendments. Following the discussion on the proposals, a motion was made by Brent Maxfield to deny the proposal for the 2018 IBC Section 1901.3. The motion was seconded by John Saunders and passed unanimously. Following further discussion a motion was made by Patrick Tomasino to deny the proposal for IRC Section R403.1.6. The motion was seconded by John Saunders and passed unanimously.
COMPLETE THE REVIEW OF CHAPTER 3 OF THE IEBC	Patrick Tomasino gave a report on his review of the chapters. He reported that he did not find any significant changes.
CONTINUE WITH THE REVIEW OF THE STRUCTURAL PORTION OF THE 2021 IRC STARTING WITH	John Saunders gave a report on Chapter 4. He reported that he found no major changes.

CHAPTER 4

Following his report, the committee reviewed the current amendments for this section. A motion was made by Jeremy Achter to keep the current amendment for Section R403.1.6. The motion was seconded by John Saunders and passed unanimously.

A motion was made by Jeremy Achter to keep the current amendment for Section R403.1.6.1. The motion was seconded by John Saunders and passed unanimously.

A motion was made by John Saunders to keep the current amendment for Section R404.1. The motion was seconded by Patrick Tomasino and passed unanimously.

A motion was made by Brent Maxfield to modify the current amendment for Section R405.1 by changing the word "geological" to "geotechnical". The motion was seconded by Patrick Tomasino and passed unanimously.

Josh Blazzard gave a report on his review of Chapter 7 and 8. He reported that many of the changes were mostly updating the standards but found no significant changes.

John Saunders gave a report on his review of Chapters 5 and 6. He did not find any significant changes. There are no current amendments for chapters 5 through 8.

The meeting adjourned at 4:53.

MINUTES

UTAH
UNIFORM BUILDING CODE COMMISSION
STRUCTURAL ADVISORY COMMITTEE
MEETING

October 7, 2021 3:00

CONVENED: 3:12

ADJOURNED 4:39

STAFF:
Steve Duncombe, Bureau Manager
Sharon Smalley, Board Secretary

COMMITTEE MEMBERS:
Jeremy Achter
Oliver Burt
John Saunders
Tyler Wright

Josh Blazzard, Commission Liaison
Patrick Tomasino (excused)
Brent Maxfield

VISITORS:

MINUTES

A motion was made by Oliver Burt to approve the minutes form the September 2, 2021 meeting as written. The motion was seconded by Tyler Wright and passed unanimously.

CONTINUE WITH THE REVIEW OF THE STRUCTURAL PORTION OF THE 2021 IBC, IRC AND IEBC

The committee reviewed the current snow load amendments in the IBC. The committee decided that there needs to be a new amendment and that the current amendments for 1605.2 and 1605.3.1 need to be reworded. Tyler Wright volunteer to work up the verbiage for the amendments for the committee to review at the November meeting.

A motion was made by Jeremy Achter to change the current amendment for Section 1905.1.9 by deleting the words "Table 4.2.1" and replacing it with the words "Section 19.3.1.1" and to delete the letter "s" from the word "Conditions". The motion was seconded by Brent Maxfield and passed unanimously.

The committee will review the proposal for the snow load amendment and do a final review of the structural portion of the IBC, IRC, and IEBC so they can make their recommendation to the Uniform Building Code Commission at the

November meeting.

The meeting adjourned at 4:39.

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.

FY July 1, 2021 - June
COMBINED BALANCE SHEET &
For July 1-31, 2021

REVENUE	BUDGET
Surcharge Fees Projected (estimated only)	$ 850,219.97
Carryover Credit from Previous Years (after all payments)	$ 2,300,000.00
Total	$ 3,150,219.97
ADMINISTRATIVE ENCUMBRANCES	**BUDGET**
Salary and Benefits	$70,900.00
Communication Services	$400.00
Miscellaneous/Office Supplies & Printing/Library	$23.20
Total	**$71,323.20**
ASSOCIATION FUNDING GRANTS	
ACI Intermountain Chapter	$ 23,088.12
AIA Utah Chapter	$ -
APWA Utah Chapter	$ -
Associated General Contractors - Utah (AGC-Utah)	$ -
Associated Builders & Contractors of Utah (ABC)	$ -
Beehive Chapter ICC	$ 8,200.00
Bonneville Chapter ICC	$ 39,750.00
Construction Specifications Institute Inc / CSI	$ -
Fire Marshal's Association of Utah	$ -
Home Builders Association of Utah	$ -
IEA (Intermountain Electrical Association)	$ -
IEC of Utah (Independent Electrical Contractors)	$ 12,900.00
Iron County Home Builders Association	$ 7,150.00
Northern Utah Building Inspectors	$ -
Park City Area Home Builders Associaiton/PCAHBA	$ -
Rocky Mountain Gas Association	$ 30,746.66
Salt Lake Home Builders Association / SLHBA	$ -
SEAU (Structural Engineers Association)	$ -
Southern Utah Division IAEI	$ -
Southern Utah Home Builders Association / SUHBA	$ 5,710.00
UAPMO	$ 19,152.00
Utah Chapter IAEI	$ 34,674.80
Utah Chapter ICC	$ 46,838.66
Utah Construction Suppliers Association	$ -
Utah Division of Occupational and Professional Licensing	$ -
Utah Plumbing & Heating Contractors Association	$ 10,971.00
Utah Valley Homebuilders Association	$ -
Ombudsman	$ 9,440.00
TOTAL	**$ -**

30, 2022 UBC
& INCOME STATEMENT
(Period 1)

RECEIVED	ACTUAL YTD	
$ 167,997.78	$ 167,997.78	
PAID	**ACTUAL YTD**	**BALANCE**
$ 1,856.36	$ 1,856.36	$69,043.64
$ 30.05	$ 30.05	$369.95
$ -	$ -	$23.20
$ 1,886.41	**$ 1,886.41**	**$69,436.79**
PAID	**ACTUAL YTD**	
$ -	$ -	$ 23,088.12
$ -	$ -	$ -
$ -	$ -	$ -
$ -	$ -	$ -
$ -	$ -	$ -
$ -	$ -	$ 8,200.00
$ -	$ -	$ 39,750.00
$ -	$ -	$ -
$ -	$ -	$ -
$ -	$ -	$ -
$ -	$ -	$ -
$ -	$ -	$ 12,900.00
$ -	$ -	$ 7,150.00
$ -	$ -	$ -
$ -	$ -	$ -
$ -	$ -	$ 30,746.66
$ -	$ -	$ -
$ -	$ -	$ -
$ -	$ -	$ -
$ -	$ -	$ 5,710.00
$ -	$ -	$ 19,152.00
$ -	$ -	$ 34,674.80
$ -	$ -	$ 46,838.66
$ -	$ -	$ -
$ -	$ -	$ -
$ -	$ -	$ 10,971.00
$ -	**$ -**	**$ -**
$ -	**$ -**	**$ 9,440.00**
$ -	**$ -**	**$ 248,621.24**

TOTAL ENCUMBRANCES	**$71,323.20**
REVENUES (LESS ACTUAL EXPENDITURES)	
Total Revenue (Surcharges plus carryovers)	
Less Actual Expenditures	
SUBTOTAL (ACTUAL)	
Less Approved Unpaid Encumbrances	
TOTAL RESERVES	

$ 1,886.41	**$ 1,886.41**	**$318,058.03**

PAID	ACTUAL YTD	
	$ 2,467,997.78	
	$ 1,886.41	
	$ 2,466,111.37	
	$ 318,058.03	
	$ 2,148,053.34	