

AGENDA

UNIFORM BUILDING CODE COMMISSION

Wednesday, August 12, 2015

9:00 AM

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

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

Administrative Business:

Call meeting to order
Sign per diem sheet

Discussion Items:

1. Approve minutes from July 22, 2015 meeting
2. Review recommendations from the advisory committees for the 2015 energy codes
3. Review Summary of Recommended Code & Amendment Changes – to be emailed
4. Advisory Committee reports -
 - a. Architectural Advisory Committee – August 4, 2015
 - c. Education Advisory Committee – no meeting
 - d. Electrical Advisory Committee – no meeting
 - e. Unified Code Analysis Council – no meeting
 - f. International Mechanical Advisory Committee – August 4, 2015
 - g. Plumbing /Health Advisory Committee – no meeting
 - h. Structural Advisory Committee – no meeting
5. Info Items
 - a. IBC Amendment status log
 - b. IRC Amendment status log
 - c. IPC Amendment status log
 - d. IECC Amendment status log
 - e. NEC Amendment status log
 - f. IEBC Amendment status log
 - g. Education Committee Combined Balance & Income Sheet

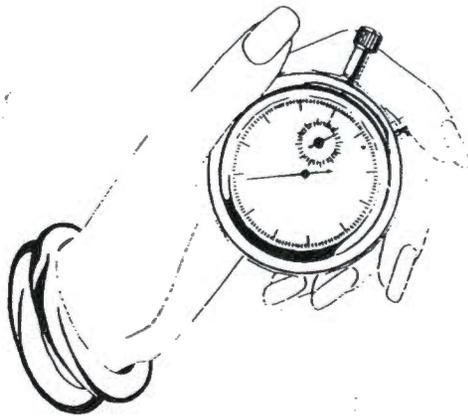
Next Scheduled Meeting: to be determined

Please call Sharon at 530-6163, email at ssmalley@utah.gov or dansjones@utah.gov if you do not plan on attending the meeting.



In compliance with the Americans with Disabilities Act, individuals needing special accommodations (including auxiliary communicative aids and services) during this meeting should notify Dave Taylor, ADA Coordinator, at least three working days prior to the meeting. Division of Occupational and Professional Licensing, 160 East 300 South, Salt Lake City UT 84115, 801-530-6628 or toll-free in Utah only 866-275-3675.

AGENDA
ITEM # 1



MINUTES

MINUTES

UTAH
UNIFORM BUILDING CODE COMMISSION
MEETING

July 22, 2015

Sandy City Hall – 9:00 am
Room 341
Sandy, UT

STAFF:

Dan S. Jones, Bureau Manager
Sharon Smalley, Board Secretary

COMMISSIONERS:

Ron McArthur	Christopher Jensen (excused)
Justin Naser	Richard Butz
Bryant Pankratz (excused)	Chris Joyal
Alex Butwinski	Casey Vorwaller
Patrick Tomasino	Kevin Emerson

VISITORS:

Brent Ursenbach, SL County	Michael Moss, DEQ-DW
Scott Marsell, Sandy City	Kerry Cramer, SLCo HD
Jody Hilton, Sunrise Eng	Mike Orton, Questar Gas
Travis Willey, Questar Gas	Bobby Treybig, Ecolab
Ron Lord, DEA	Craig Davis, Questar Gas
David Brems, CAAT/GSBS	Mitch Richardson, Survey Testing
Jennifer Gardner, OED	Jeff Bonett, OED
Ashley Soltysink, Heal Utah	Gordon Hyer, Provident Energy
Steve Thon, Provident Energy	Dianne Gethers, OED
Kelly Francone, UAE	Meghan Dutton, UCE

MINUTES

A motion was made by Chris Joyal to approve the minutes from the July 8, 2015 meeting as written. The motion was seconded by Richard Butz and passed unanimously.

COMPLETE REVIEW OF RECOMMENDATIONS FROM THE ADVISORY COMMITTEES FOR THE 2015 CODES

The commission review each of the changes that have been recommended by the committees and the following motions were made.

Casey Vorwaller asked the Commission to look at the amendment to the IEBC, Section 1012.7.3 again

and to consider removing the amendment. Following the discussion, a motion was made by Casey Vorwaller to delete the amendment and go with the code as written. The motion was seconded by Ron McArthur and passed unanimously.

The Commission reviewed the recommendations for the 2015 IPC in 15A-3-301 through 15A-3-315. Michael Moss, Kerry Cramer and Jody Hilton spoke on behalf of the Plumbing Advisory Committee in connection with the recommendation that they made for the plumbing code.

During the discussion on the amendment for Section 608.16.7, Ron Lord spoke to the Commission in connection with his proposed amendment that had been denied by the Plumbing Advisory Committee and with no action taken by the Commission at their last meeting.

A motion was made by Ron McArthur to accept the recommendations for the amendments to the plumbing code in 15A-3-302 through 315 as presented. The motion was seconded by Patrick Tomasino and passed unanimously.

The Commission reviewed 15A-3-701. Brent Ursenbach spoke on behalf of the Mechanical and Architectural Advisory Committee and their reviewed the 2015 IECC.

A motion was made by Patrick Tomasino to accept the recommendations for the changes for amendments in 15A-3-701 (1) through (3). The motion was seconded by Kevin Emerson and passed unanimously.

The Commission heard comments from the public who all spoke in favor of going to the 2015 energy code.

A motion was made by Ron McArthur to send the recommendation for the residential energy code back to the Architectural and Mechanical Advisory Committees for further review and reviewing the specific amendments in place as it pertains to the adoption of the 2015 code and come back to the

Commission in a month with a recommendation to either uphold the current recommendation to adopt it in whole or add an amendments that might be appropriate. The motion died due the lack of a second.

A motion was made by Kevin Emerson to proceed with the recommendation from the committees pending a new recommendation within 30 days. If they come back with a new recommendation that is different, then the new recommendation would be addressed. The motion died due the lack of a second.

A motion was made by Ron McArthur to approve the recommendation as given but to give the Architectural and Mechanical Advisory Committee 30 days to come back to the Commission with proposed amendments to be considered and if not the original recommendation goes to publication for public hearing. The motion was seconded by Chris Joyal and passed unanimously.

A motion was made by Ron McArthur to approve all of the recommended changes to Title 15A as presented, including the one that was amended today for the IEBC and subject to the prior motion that was passed. The motion was seconded by Alex Butwinski and passed unanimously.

The Commission reviewed the summary of the recommended changes and agreed to review it further at the August 12th meeting.

The meeting adjourned at 12:10.

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

Agenda Item #2

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

- (1) In IRC, Section N1101.8 (R103.2), all words after the words "herein governed." are deleted and replaced with the following: "Construction documents include all documentation required to be submitted in order to issue a building permit."
- (2) In IRC, Section N1101.[14]12 (R303.3), all wording after the first sentence is deleted.
- (3) In IRC, Section N1101.13 (R401.2) a new number 4. is added as follows:
 - 4. "Compliance may be shown by using the RESCheck "2012 Utah Energy Conservation Code" and showing compliance "10 percent better than code" as shown by the above referenced software."
- ([3]4) In IRC, Table N1102.1.[1]2 (R402.1.[1]2) in the column entitled MASS WALL R-VALUE [and Table N1102.1.3 (R402.1.3), the rows for "climate zone 3", "climate zone 5 and Marine 4", and "climate zone 6" are deleted and replaced and] a new footnote j is added as follows: "j. Log walls complying with ICC400 and with a minimum average wall thickness of 5" or greater shall be permitted in Zones 5-8 when overall window glazing is .31 U-factor or lower, minimum heating equipment efficiency is 90 AFUE (gas) or 84 AFUE (oil), and all other component requirements are met."

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

"TABLE N1102.1.1 (R402.1.1)										
INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT ^a										
CLIMATE ZONE	FENESTRATION U-FACTOR ^b	SKYLIGHT ^b U-FACTOR	GLAZED FENESTRATION SHGC ^{b,e}	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE ^{i,j}	FLOOR R-VALUE	BASEMENT ^e WALL R-VALUE	SLAB ^d R-VALUE & DEPTH	CRAWL SPACE ^e WALL R-VALUE
3	0.65	0.65	0.40	30	15	5	19	0	0	5/13
5 and Marine 4	0.35	0.60	NR	38	19 or 13+ 5h	13	30-g	10/13	10, 2 ft	10/13
6	0.35	0.60	NR	49	19 or 13+ 5h	15	30-g	10/13	10, 4 ft	10/13]
j. Log walls complying with ICC400 and with a minimum average wall thickness of 5" or greater shall be permitted in Zones 5-8 when overall window glazing is .31 U-factor or lower, minimum heating equipment efficiency is 90 AFUE (gas) or 84 AFUE (oil), and all other component requirements are met."										

[TABLE N1102.1.3 (R402.1.3)						
EQUIVALENT U-FACTORS ^a						
			FRAME			BASEMENT CRAWL SPACE

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

- [(4) — In IRC, Section N1102.2.1 (R402.2.1), the last sentence is deleted.]
- [(5) — In IRC, Section N1102.2.2 (R402.2.2), the last sentence is deleted.]
- [(6) — In IRC, Section N1102.3.3 (R402.3.3), the last sentence is deleted.]
- [(7) — In IRC, Section N1102.3.4 (R402.3.4), the last sentence is deleted.]
- [(8)] (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”.
- [(9)] (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 [building] code official, the builder may certify compliance to components criteria for items which may not be inspected during regularly scheduled inspections."
- [(10)] (7) In IRC, Section N1102.4.1.2 (R402.4.1.2), the following changes are made:
- In the first sentence, the words "in Zones 1 and 2, and 3 air changes per hour in Zone 3 through 8" are deleted.
 - In the third sentence, [~~the words "Where required by the building official," and~~] the word "third" [~~are~~]is deleted.
 - The following sentence is inserted after the third sentence: "The following parties shall be approved to conduct testing: Parties certified by BPI or RESNET, or licensed contractors who have completed training provided by Blower Door Test equipment manufacturers or other comparable training."
- [(11) — In IRC, Section N1102.4.4 (R402.4.4), the last sentence is deleted.]
- [(12) — In IRC, Section N1103.2.2 (R403.2.2), the requirements for total leakage testing are deleted and replaced with the following:
1. — Postconstruction test: Total leakage shall be less than or equal to 10 cfm (283 L/min) per 100 square feet (9.29 m²) of conditioned floor space when tested at a pressure differential of 0.1 inches w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. All register boots shall be taped or otherwise sealed during the test.
 2. — Rough in test: Total leakage shall be less than or equal to 10 cfm (283 L/min) per 100 square feet (9.29 m²) of conditioned floor area when tested at a pressure differential of at least 0.1 inches w.g. (25 Pa) across the system, including the manufacturer's air handler enclosure. All registers shall be taped or otherwise sealed during the test. If the air handler is not installed at the time of the test, total leakage shall be less than or equal to 7.5 cfm (212 L/min) per 100 square feet (9.29 m²) of conditioned floor area."
- (13) (8) In IRC, Section N1103.[2.2]3.3 (R403.[2.2]3.3), the exception for [total]duct air leakage testing is deleted and replaced with the following: "Exception: The [total]duct

air leakage test is not required for systems with all air handlers and at least ~~50~~65% 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 training provided by Duct Test equipment manufacturers or other comparable training."

(10) In IRC, Section N1103.3.4 (R403.3.4), in subsection 1, the number 4 is changed to 6, the number 113.3 is changed to 170, the number 3 is changed to 5, the number 85 is changed to 114.6 and in subsection 2, the number 4 is changed to 8 and the number 113.3 is changed to 226.5.

~~[(14)]~~(11) In IRC, Section N1103.~~[2.3]~~3.5 (R403.~~[2.3]~~3.5), the words "or plenums" are deleted.

~~[(15)]~~In IRC, Section N1103.4.2 (R403.4.2), the sentences ~~f~~ or "3.", "9.", and the last sentence are deleted.]

~~[(16)]~~In IRC, Section N1103.5 (R403.5), the first sentence is deleted.]

~~[(17)]~~IRC, Section N1104.1 (R404.1) and the exception are deleted, and N1104.1.1 (R404.1.1) becomes N1104.1 (R404.1).]

~~[(18)]~~In IRC, Table N1105.5.2(1) (R405.5.2(1)), the following changes are made under the column STANDARD REFERENCE DESIGN:

(a) ~~In the row "Air exchange rate", the words "in Zones 1 and 2, and 3 air changes per hour in Zones 3 through 8" are deleted.~~

(b) ~~In the row "Heating systems_{f, g}", the standard reference design is deleted and replaced with the following:~~

~~"Fuel Type: same as proposed design Efficiencies:~~

~~Electric: air source heat pump with prevailing federal minimum efficiencies
Nonelectric furnaces: natural gas furnace with prevailing federal minimum efficiencies~~

~~Nonelectric boilers: natural gas boiler with prevailing federal minimum efficiencies~~

~~Capacity: sized in accordance with Section N1103.6"~~

(c) ~~In the row "Cooling systems_{f, h}" the words "As proposed" are deleted and replaced with the following:~~

~~"Fuel Type: Electric~~

~~Efficiency: in accordance with prevailing federal minimum standards"~~

(d) ~~In the row "Service water heating_{f, g, h, i}", the words "As proposed" are deleted and replaced with the following:~~

~~"Fuel Type: same as proposed design~~

~~Efficiency: in accordance with prevailing federal minimum standards~~

~~Tank Temperature: 120°F"~~

(e) ~~replaced with the following: "Thermal distribution system efficiency (DSE) of .080 shall be applied to both the heating and cooling system efficiencies."~~

~~[(19)]~~In Table N1105.5.2(2) (R405.5.2(2)), the number "0.80" is inserted under "Forced air systems" for "Distribution system components located in unconditioned space".]

(12) In IRC, Section N1106.2 (R406.2), the last sentence and exception are deleted.

(13) In IRC, Section N1106.4 (R406.4) the table is deleted and replaces as follows:

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

<u>CLIMATE ZONE</u>	<u>ENERGY RATING INDEX</u>
<u>1</u>	<u>59</u>
<u>2</u>	<u>59</u>
<u>3</u>	<u>59</u>
<u>4</u>	<u>63</u>
<u>5</u>	<u>63</u>
<u>6</u>	<u>62</u>
<u>7</u>	<u>60</u>
<u>8</u>	<u>60</u>

[(20)](14) In IRC, Section M1307.2, the words "In Seismic Design Categories D1 and D2" are deleted.

[(21)] The RESCheck Software adopted by the United States Department of Energy and modified to meet the requirements of this section shall be used to verify compliance with this section. The software shall address the Total UA alternative approach and account for Equipment Efficiency Trade-offs when applicable per the standard reference design as amended

[(22)](15) IRC, Section [M1411.6] M1411.8, is deleted.
Amended by Chapter 279, 2013 General Session

15A-3-701. General provisions.

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

[(1)] In IECC, Section C202, the definition for "CONDITIONED SPACE" is deleted and replaced with the following: "CONDITIONED SPACE. An area, room or space enclosed within the building thermal envelope that is directly heated or cooled, or indirectly heated or cooled by any of the following means:

1. Openings directly into an adjacent conditioned space.
2. An un-insulated floor, ceiling or wall adjacent to a conditioned space.
3. Un-insulated duct, piping or other heat or cooling source within the space."

[(2)] In IECC, Section C404.4, a new exception is added as follows: "Exception: Heat traps, other than the arrangement of piping and fittings, shall be prohibited unless a means of controlling thermal expansion can be ensured as required in the IPC Section 607.3."

(1) In IECC, Section C403.2.9.1.3, the words "by the designer" are deleted.

[(3)](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."

[(4)] In IECC, Section R202, the definition for "CONDITIONED SPACE" is deleted and replaced with the following: "CONDITIONED SPACE. An area, room or space enclosed within the building thermal envelope that is directly heated or cooled, or indirectly heated or cooled by any of the following means:

1. Openings directly into an adjacent conditioned space.

2. ~~An un-insulated floor, ceiling or wall adjacent to a conditioned space.~~
 3. ~~Un-insulated duct, piping or other heat or cooling source within the space.”]~~
 ([5]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 using the RESCheck “2012 Utah Energy Conservation Code” and showing compliance “10 percent better than code” as shown by the above referenced software.”
- ([6]5) In IECC, Table R402.1.[1]2 and Table R402.1.3, the rows for "climate zone 3", "climate zone 5 and Marine 4, and climate zone 6" are deleted and replaced and] a new footnote j is added as follows: : “j. Log walls complying with ICC400 and with a minimum average wall thickness of 5” or greater shall be permitted in Zones 5-8 when overall window glazing is .31 U-factor or lower, minimum heating equipment efficiency is 90 AFUE (gas) or 84 AFUE (oil), and all other component requirements are met.”

["TABLE R402.1.1

INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT^a

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

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

TABLE R402.1.3 EQUIVALENT U FACTORS^a

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

- ~~[(7) In IECC, Section R402.2.1, the last sentence is deleted.]~~
- ~~[(8) In IECC, Section R402.2.2, the last sentence is deleted.]~~
- ~~[(9) In IECC, Section R402.3.3, the last sentence is deleted.]~~
- ~~[(10) In IECC, Section R402.3.4, the last sentence is deleted.]~~
- [[11]6] In IECC, Section R402.4.1, in the first sentence, the word "and" is deleted and replaced with the word "or".
- [[12]7] In IECC, Section R402.4.1.1, the last sentence is deleted and replaced with the following: "Where allowed by the [building]code official, the builder may certify compliance to components criteria for items which may not be inspected during regularly scheduled inspections."
- [[13]8] In IECC, Section R402.4.1.2, the following changes are made:
- (a) In the first sentence, the words "in Zones 1 and 2, and 3 air changes per hour in Zone 3 through 8" are deleted.
 - (b) In the third sentence, the words "Where required by the [building]code official," and the word "third" are deleted.
 - (c) The following sentence is inserted after the third sentence: "The following parties shall be approved to conduct testing: Parties certified by BPI or RESNET, or licensed contractors who have completed training provided by Blower Door Test equipment manufacturers or other comparable training."
- ~~[(14) In IECC, Section R402.4.4, the last sentence is deleted.]~~
- ~~[(15) In IECC, Section R403.2.2, the requirements for duct tightness testing are deleted and replaced with the following:~~
- ~~1. Postconstruction test: Total leakage shall be less than or equal to 10 cfm (283 L/min) per 100 square feet (9.29 m²) of conditioned floor space when tested at a pressure differential of 0.1 inches w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. All register boots shall be taped or otherwise sealed during the test.~~
 - ~~2. Rough-in test: Total leakage shall be less than or equal to 10 cfm (283 L/min) per 100 square feet (9.29 m²) of conditioned floor area when tested at a pressure differential of at least 0.1 inches w.g. (25 Pa) across the system, including the manufacturer's air handler enclosure. All registers shall be taped or otherwise sealed during the test. If the air handler is not installed at the time of the test, total leakage shall be less than or equal to 7.5 cfm (212 L/min) per 100 square feet (9.29 m²) of conditioned floor area."~~
- [[16]9] In IECC, Section R403.~~[2.2]~~3.3, the exception for [total]duct air leakage testing is deleted and replaced with the following: "Exception: The total leakage test is not required for systems with all air handlers and at least [50]65% 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: Parties certified by BPI or RESNET, or licensed contractors who have completed training provided by Duct Test equipment manufacturers or other comparable training."
- (11) In IECC, Section R403.3.4, in subsection 1, the number 4 is changed to 6, the number ~~113.3~~ is changed to 170, the number 3 is changed to 5, the number 85 is changed to 114.6

and in subsection 2, the number 4 is changed to 8 and the number 113.3 is changed to 226.5.

- ~~[(17)12] In IECC, Section R403.[2-3]3.5, the words "or plenums" are deleted.~~
- ~~[(18) In IECC, Section R403.4.2, the sentences for "3." and "9." and the last sentence are deleted.]~~
- ~~[(19) In IECC, Section R403.5, the first sentence is deleted.]~~
- ~~[(20) IECC, Section R404.1 and the exception are deleted, and R404.1.1 becomes R404.1.]~~
- ~~[(21) In IECC, Table R405.5.2(1), the following changes are made under the column STANDARD REFERENCE DESIGN:~~
- ~~(a) In the row "Air exchange rate", the words "in Zones 1 and 2, and 3 air changes per hour in Zones 3 through 8" are deleted.~~
 - ~~(b) In the row "Heating systems_{f, g}", the standard reference design is deleted and replaced with the following:
"Fuel Type: same as proposed design
Efficiencies:
Electric: air source heat pump with prevailing federal minimum efficiencies
Nonelectric furnaces: natural gas furnace with prevailing federal minimum efficiencies
Nonelectric boilers: natural gas boiler with prevailing federal minimum efficiencies
Capacity: sized in accordance with Section N1103.6"~~
 - ~~(c) In the row "Cooling systems_{f, h}" the words "As proposed" are deleted and replaced with the following:
"Fuel Type: Electric
Efficiency: in accordance with prevailing federal minimum standards"~~
 - ~~(d) In the row "Service water heating_{f, g, h, i}", the words "As proposed" are deleted and replaced with the following
"Fuel Type: same as proposed design
Efficiency: in accordance with prevailing federal minimum standards
Tank Temperature: 120°F"~~
 - ~~(e) In the row "Thermal distribution systems" the word "none" is deleted and replaced with the following: "Thermal distribution system efficiency (DSE) of .080 shall be applied to both the heating and cooling system efficiencies."]~~
- ~~[(22) In IECC, Table R405.5.2(2), the number "0.80" is inserted under "Forced air systems" for "Distribution system components located in unconditioned space".]~~
- ~~[(23) The RESCheck Software adopted by the United States Department of Energy and modified to meet the requirements of this section shall be used to verify compliance with this section. The software shall address the Total UA alternative approach and account for Equipment Efficiency Trade-offs when applicable per the standard reference design as amended.]~~
- (13) In IRC, Section N1106.2 (R406.2), the last sentence and exception are deleted.
- (14) In IRC, Section N1106.4 (R406.4) the table is deleted and replaces as follows:

TABLE N1106.4 (R406.4)

MAXIMUM ENERGY PATING INDEX

<u>CLIMATE ZONE</u>	<u>ENERGY RATING INDEX</u>
<u>1</u>	<u>59</u>
<u>2</u>	<u>59</u>

<u>3</u>	<u>59</u>
<u>4</u>	<u>63</u>
<u>5</u>	<u>63</u>
<u>6</u>	<u>62</u>
<u>7</u>	<u>60</u>
<u>8</u>	<u>60</u>

Agenda Item #3

Summary of Recommended Changes to Construction Codes Under Title 15A State Construction and Fire Code Act

This document is a summary of proposed changes to the State Construction Codes which have been recommended by the Uniform Building Code Commission advisory committees and which the Uniform Building Code Commission is considering for recommendation to the Business and Labor Interim Committee.

These proposed changes are written with strikethrough and underline to the existing statute for easier identification of the items that are being recommended for change.

Overall Summary of Proposed Changes:

There are 6 areas of change recommended:

1. Change the adopted construction codes from the 2012 International Code Council (ICC) codes to the current 2015 ICC codes.
2. Delete existing amendments that are no longer needed because the 2015 ICC codes now adequately addresses the reason for the Utah amendment.
3. Modify existing amendments to coordinate with revised text in the 2015 ICC codes and requirements imposed by other state laws or agencies.
4. Delete or modify selected new requirements of the 2015 ICC codes if not recommended for adoption in Utah.
5. Change the 2015 International Existing Building Code (IEBC) together with amendments from an approved code to an adopted code.
6. Change the current residential energy provisions to the 2015 IECC and Chapter 11 of the 2015 IRC.

With the exception of the residential energy recommendations (see separate discussion below), the Committees have encountered limited opposition to the proposed code changes with most persons attending the meetings agreeing that the changes should be made.

As to the residential energy code provisions of the 2015 IECC and Chapter 11 of the 2015 IRC, this subject has been quite controversial.

Primarily the home builders have argued that energy saving measures should be left to the discretion of the builders and the home owners rather than mandated. They have also questioned the sufficiency of studies completed by the energy groups.

The energy groups have argued that meeting the additional costs of energy code requirements has a very short payback period and that the actual monthly housing payments when the

mortgage and utility costs are combined actually results in lower monthly expenditures to home owners. They have also argued that failure to enact energy code requirement will also have a substantial detrimental effect on the air quality.

The Mechanical Advisory Committee and the Architectural Committee recommended adoption of the 2015 IECC and residential energy provisions of Chapter 11 of the 2015 IRC with amendments as shown in 15A-3-203(1) through 15A-3-203(13) and 15A-3-701(2) through (14).

Detailed Summary of Proposed Changes:

15A-2-102(10):

This change is to add the IEBC to the list of adopted codes.

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

These changes are to change from the 2012 to the 2015 IBC, IRC, IPC, IMC, IEGC, IECC and to change the 2011 NEC to the 2014 NEC, and to add the 2015 IEBC to the list of adopted codes.

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

This change is to change the installation standards for manufactured housing from the 2012 IRC to the 2015 IRC.

15A-3-102(2) – Section 110:

This is a change to an existing amendment (inspections) which is being modified for clarification and to coordinate with the 2015 code.

15A-3-102(3) – Section 115.1:

This is a change to an existing amendment (stop work order) which is modified for clarification.

15A-3-102 [prior (10) deleted] – Section 304.1:

This change deletes an amendment (business group B) that is no longer needed because it is now adequately addressed in the 2015 code and other amendments.

15A-3-102(10) [prior (11)] – Section 305.2:

This is a reference change in an existing amendment to coordinate with the changes made in the 2015 code.

15A-3-102(14) – Table 307.1(1):

This is a new amendment (hazardous material) to allow an increase in the number of pounds of fireworks that can be stored in a building equipped throughout with an approved automatic sprinkler system. This change is made to coordinate with the requirements of the State Fire Code

15A-3-102(15) – Section 308.2:

This is a new amendment (definitions) to clarify the wording and to coordinate with the statutes and rules under the Department of Human Services, which regulates this type of facility.

15A-3-102(18) [prior 17] – Section 308.3.4:

This is a reference change in an existing amendment to coordinate with the changes in 2015 code.

15A-3-102(19) [prior 18] – Section 308.4:

This is a change to an existing amendment (institutional group I-2) for clarification and for coordination of requirements with the Department of Health.

15A-3-102(20) [prior 19] – Section 308.4.2:

This is a reference change in an existing amendment to coordinate with the changes in 2015 code.

15A-3-102(22) [prior 21] – Section 308.6.1:

This is a reference change in an existing amendment to coordinate with the changes in 2015 code.

15A-3-102(23) [prior 22] – Section 308.6.3 and 308.6.4:

This is a reference change in an existing amendment to coordinate with the changes in 2015 code.

15A-3-102(25) [prior 24] – Section 310.5.1:

This is a reference change in an existing amendment to coordinate with the changes in 2015 code.

15A-3-102(26) [prior 25] – Section 310.5.3:

This changes in an existing amendment to coordinate with the changes in 2015 code.

15A-3-103. [prior (2) deleted] - Section 406.5.8:

This change deletes an amendment (standpipes) that is no longer needed because it is now adequately addressed in the 2015 code

15A-3-103. [prior (3) deleted] - Section 406.5.8.1:

This change deletes an amendment (standpipes) that is no longer needed because it is now adequately addressed in the 2015 code

15A-3-103(2) [prior 4] – Section 422.2:

This is a technical change to an existing amendment (ambulatory care facilities) to match the wording in the 2015 codes.

15A-3-103(3) [prior 5] – Section 427:

This is a reference change in an existing amendment to coordinate with the changes in 2015 code.

15A-3-103(4) [prior 6] – Section 504.4:

This is a reference change in an existing amendment to coordinate with the changes in 2015 code and changes wording for clarification of the requirements.

15A-3-104(5) – Section (F)903.2.8, (F)903.2.8.1, (F)903.2.8.2, (F)903.2.8.4:

This is an existing amendment (automatic sprinkler system) in which an additional referenced section is added to coordinate with requirements of the State Fire Code.

15A-3-104(6) – Section (F)903.2.8.3 and (F)903.2.8.3.1:

This changes section numbers to coordinate with the other amendment changes.

15A-3-104(7) – Section (F)903.2.8.3.2:

This changes section numbers to coordinate with the other amendment changes.

15A-3-104(8) – Section (F)903.2.8.4:

This is a new amendment (automatic sprinkler system) to coordinate with the requirements of the State Fire Code.

15A-3-104(10) [prior (7)] – Section (F)904.12:

This is a change in an existing amendment to coordinate with the changes in 2015 code.

15A-3-104(11) [prior (8)] – Section (F)904.12.3:

This is a reference change in an existing amendment to coordinate with the changes in 2015 code.

15A-3-104(12) – Section 905.3.9:

This is a new amendment (open parking garages) to coordinate with the requirements of the State Fire Code.

15A-3-104(13) – Section 905.8:

This is a new amendment (dry standpipes) to coordinate with the requirements of the State Fire Code.

15A-3-104(14) [prior (9)] – Section (F)907.2.3:

This change is made to an existing amendment (Group E) for clarification.

15A-3-104. [prior (10) deleted] – Section 908.7:

15A-3-104. [prior (11) deleted] – Section 908.7.1:

15A-3-104. [prior (12) deleted] – Section 908.7:

These amendments (carbon monoxide alarm) are being deleted because they have been moved to a different section in the 2015 code.

15A-3-104(15) – Section 915:

This is a new amendment (carbon monoxide alarms) that has been rewritten from the previous carbon monoxide amendments and is needed to coordinate with changes in the 2015 code. It does not substantially change the installation requirements.

15A-3-105(1) – Section 1010.1.9.6:

This is an existing amendment (secure area) which is being modified to coordinate with changes in the 2015 code.

15A-3-105. [prior (2) deleted] – Section 1008.1.9.7:

This change deletes an amendment that is no longer needed because it is now adequately addressed in the 2015 code and other amendments.

15A-3-105(2) [prior (3)] – Section 1011.5.2:

This is a reference change in an existing amendment to coordinate with the changes in 2015 code.

15A-3-105(3) [prior (4)] – Section 1011.11:

This is a reference change in an existing amendment to coordinate with the changes in 2015 code.

15A-3-105(4) [prior (5)] – Section 1013.5:

This is a reference change in an existing amendment to coordinate with the changes in 2015 code.

15A-3-105(5) [prior (6)] – Section 1025:

This is a reference change in an existing amendment to coordinate with the changes in 2015 code.

15A-3-105(6) [prior (7)] – Section 1029.14:

This is a reference change in an existing amendment to coordinate with the changes in 2015 code.

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

This is being recommended as a technical change to numbering because of deleted amendments.

15A-3-106.5 [prior (1) – Section 1505.8 deleted]:

15A-3-106.5 [prior (2) – Section 1509.7.2 deleted]:

15A-3-106.5 [prior (3) – Section 1509.7.4 deleted]:

15A-3-106.5 [prior (4) – Subsection 1-3 deleted]:

These changes delete amendments that are no longer needed because they are now adequately addressed in the 2015 code.

15A-3-107(11) – Section 1613.7:

This is a reference change in an existing amendment to coordinate with the changes in 2015 code.

15A-3-108. [prior (3) - Section 1904.2 deleted]:

This change deletes an amendment that is no longer needed because it is now adequately addressed in the 2015 code.

15A-3-108(3) [prior (4)] - Section 1905.1.9:

This is a reference change in an existing amendment to coordinate with the changes in 2015 code and other amendments to the 2015 code.

15A-3-110(2) – Section 2308.3.1:

This is a reference change in an existing amendment to coordinate with the changes in 2015 code.

15A-3-110(3) – Section 2506.2.1:

This is a reference change in an existing amendment to coordinate with the changes in 2015 code.

15A-3-112(2) – Section [P]2902.7:

This is a new amendment (toilet facilities for workers) that is being recommended for approval in order to clarify who is responsible to supply toilet facilities during construction.

15A-3-113 [prior (1) Section 3401.7 deleted]:

15A-3-113 [prior (2) Section 3408.4 deleted]:

These amendments are being deleted because the 2015 IBC no longer has a Chapter 34.

15A-3-202 [prior (11) – Section R302.2 deleted]:

15A-3-202 [prior (12) – Section R302.2.4 deleted]:

These changes delete amendments that are no longer needed because they are now adequately addressed in the 2015 code.

15A-3-202(12) – Section R302.13:

This is a new amendment to lessen the requirements for fire protection of floors.

15A-3-202(14) [prior (15)] – Section R311.7.5 through R311.7.5.3:

This is a reference change in an existing amendment to coordinate with the changes in 2015 code.

15A-3-202 [prior (16) – Section R312.1.2 deleted]:

This amendment (adjacent fixed seating) is being recommended for deletion as it is now adequately addressed in the 2015 code.

15A-3-202(16) [prior (18)] – Section R313.1 through R313.2.1:

This is an existing amendment (automatic fire sprinkler systems) that is modified for clarification and to coordinate with the requirements of the State Fire Code.

15A-3-202(17) – Section R315.3:

This is a new amendment (carbon monoxide alarms) for clarification and to coordinate with other state amendments.

15A-3-202(18) [prior (19)] – Section R315.5:

This is an existing amendment (carbon monoxide alarms) which is being modified to coordinate with the changes in the 2015 code.

15A-3-202(19) [prior (20)] – Section R315.7:

This is a reference change in an existing amendment to coordinate with the changes in 2015 code.

15A-3-202(20) [prior (21)] – Section R403.1.6:

This is a reference change in an existing amendment to coordinate with the changes in 2015 code.

15A-3-202 [prior (24)] – Section R501.3 deleted]:

This change deletes an amendment that is no longer needed because it is now adequately addressed in the 2015 code.

15A-3-203 (1) - Section N1101.8 (R103.2):

These are existing amendments that are being recommended to be carried forward without any changes.

15A-3-203 (2) - Section N1101.12 (R303.3):

This is an existing amendment that is being recommended to be carried forward with a modification to the section number. This is necessary to coordinate with the changes to the 2015 code.

15A-3-203-(3) – Section N1101.13 (R402.1.2):

This is a new amendment (compliance) that is being recommended in order to add an additional means of complying with the requirements of the energy code.

15A-3-203(4) [prior (3)] – Section N1102.1.2 (R402.1.2) modified:

This is an existing amendment that is being modified to delete the table but keep the footnote. The table is now adequately covered in the 2015 energy code.

15A-3-203 [prior (4)] - Section N1102.2.1 (R402.2.1) deleted]:

15A-3-203 [prior (5)] - Section N1102.2.2 (R402.2.2) deleted]:

15A-3-203 [prior (6)] - Section N1102.3.3 (R402.3.3) deleted]:

15A-3-203 [prior (7)] - Section N1102.3.4 (R402.3.4) deleted]:

These changes delete amendments that are no longer needed because they are adequately addressed in the 2015 code.

15A-3-203(5)[prior (8)] - Section N1102.4.1 (R402.4.1):

This is an existing amendment that is being recommended to be carried forward.

15A-3-203(6) [prior (9)] - Section N1102.4.1.1 (R402.4.1.1):

This is an existing amendment that is being recommended to be carried forward with a modification in the wording. This does not change the requirements.

15A-3-203(7) [prior (10)] - Section N1102.4.1.2 (R402.4.1.2):

This is an existing amendment that is being recommended to be carried forward with a modification in the wording. This does not change the requirements.

15A-3-203 [prior (11)] - Section N1102.4.4 (R402.4.4) deleted]:

15A-3-203 [prior (12)] - Section N1103.2.2 (R403.2.2) deleted]:

These changes delete amendments that are no longer needed because they are adequately addressed in the 2015 code.

15A-3-203(8) [prior (13)] - Section N1103.3.3 (R403.3.3):

This is an existing amendment that is being recommended to be carried forward with a modification in the section number and wording. This is necessary to coordinate with the changes in the 2015 code. It does not change the requirements.

15A-3-203(9) - Section N1103.3.3 (R403.3.3):

This is a new amendment that is being recommended. It defines who is approved to conduct duct air leakage testing.

15A-3-203(10) - Section N1103.3.4 (R403.3.4):

This is a new amendment that is being recommended. It will lessen the requirements for duct leakage.

15A-3-203(11) [prior (14)] - Section N1103.3.5 (R403.3.5):

This is an existing amendment that is being recommended to be carried forward with a modification in the section number. This is necessary to coordinate with the changes in the 2015 code. It does not change the requirements.

15A-3-203 [prior (15)] - Section N1103.4.2 (R403.4.2) deleted]:

15A-3-203 [prior (16)] - Section N1103.5 (R403.5) deleted]:

15A-3-203 [prior (17)] - Section N1104.1 (R404.1) deleted]:

15A-3-203 [prior (18)] - Table N1105.5.2(1) (R405.5.2(1)) deleted]:

15A-3-203 [prior (19)] - Table N1105.5.2(2) (R405.5.2(2)) deleted]:

These changes delete amendments that are no longer needed because they are adequately addressed in the 2015 code.

15A-3-203(12) - Section N1106.2(R406.2):

This is a new amendment that is being recommended. This will lessen the requirements.

15A-3-203(13) - Section N1106.4(R406.4):

This is a new amendment that is being recommended. This will lessen the requirements.

See discussion on the Energy Code.

15A-3-203(3) [prior (22)]:

This is a reference change in an existing amendment to coordinate with the changes in 2015 code.

15A-3-204 [prior (1) – Table M1601.1.1(2) deleted]:

This change deletes an amendment that is no longer needed because it is now adequately addressed in the 2015 code.

15A-3-204 [prior (2) – Section M1901.3 deleted]:

This change deletes an amendment that is no longer needed because it is now adequately addressed in the 2015 code.

15A-3-205(3) – Section P2801.8:

This is a reference change in an existing amendment to coordinate with the changes in 2015 code.

15A-3-205(4) – Section P2902.1.1:

This is an existing amendment (backflow assembly testing) that is being clarified to coordinate with requirements of the Division of Drinking Water

15A-3-205 [prior (5) – Table P2902.3 deleted]:

This change deletes an amendment that is no longer needed because it is now adequately addressed in the 2015 code.

15A-3-205(5) – Section P2902.1:

This is a new amendment (general installation criteria) that is needed to clarify the installation requirements for the protection of a potable water supply system and to coordinate with the 2015 code changes and amendments that are being deleted.

15A-3-205(6) – Section P2910.5:

15A-3-205(7) – Section P2910.9.5

15A-3-205(8) – Section P2911.12.4

15A-3-205(9) – Section P2912.15.6

15A-3-205(10) – Section P2913.4.2

15A-3-205(11) – Section P3009

These are all new amendments (installation criteria) to clarify and coordinate with statutes, rules and other requirements under the Utah Department of Environmental Quality, which regulates this area.

15A-3-205 [prior (6) – Section P3009.1 deleted]:

15A-3-205 [prior (7) – Section P3009.1.1 deleted]:

15A-3-205 [prior (8) – Section P3009.2 deleted]:

15A-3-205 [prior (9) – Section P3009.6 deleted]:

15A-3-205 [prior (10) – Section P3009.7 deleted]:

15A-3-205 [prior (11) – Section P3009.13.3 deleted]:

15A-3-205 [prior (12) – Section P3009.14: deleted]:

These changes delete amendments that are no longer needed because they are now adequately addressed in the 2015 code.

15A-3-206(1) - Section E3901.9:

This is a new amendment (basement, garages, and accessory buildings) that will lessen the requirement for wiring.

15A-3-206(2) [prior (1)] - Section E3902.16:

This is a reference change in an existing amendment to coordinate with the changes in 2015 code.

15A-3-302(1) – Section 101.2.1:

This is a reference change in an existing amendment to coordinate with the changes in 2015 code.

15A-3-206(7) - Section 202:

15A-3-206(8) - Section 202:

These are new amendments for definitions to clarify and coordinate with the requirements of the Department of Health and the Department of Environmental Quality.

15A-3-206[prior (7) - Section 202 deleted]:

This change deletes an amendment that is no longer needed because it is now adequately addressed in the 2015 code.

15A-3-303 [prior (2) – Section 304.3 deleted]:

This change deletes an amendment that is no longer needed because it is now adequately addressed in the 2015 code.

15A-3-303(2) – Section 307.5:

This is a new amendment (protection of footings) that deletes a requirement for trenching that is parallel to footings.

15A-3-303(3) – Section 311.1:

This is a current amendment (general) that is being modified to clarify the requirement for toilet facilities for workers during construction.

15A-3-303(4) – Section 312.3:

This is a current amendment (drainage and vent air testing) that is being modified for clarification.

15A-3-304(1) – Table 403.1:

This is an existing amendment (minimum number of required plumbing fixtures) that is being modified for clarification and to coordinate with the requirements of the Department of Health.

15A-3-304(3) – Section 412.5:

This is an existing amendment (public toilet room) that is being modified to lessen the requirement in certain occupancies and to coordinate with the requirements for the Department of Health.

15A-3-304(4) – Section 423.3:

This is a new amendment (footbaths, pedicure baths and head shampoo sinks) to delete a requirement for water temperature limiting devices in footbaths, pedicure baths and head shampoo sinks.

15A-3-305(1) – Section 502.4:

This is an existing amendment (seismic support) that clarifies the requirement for anchoring water heaters.

15A-3-306(3) – Section 604.4.1:

This is an existing amendment (maximum flow and water consumption) that is being clarified to be a requirement for food service establishments.

15A-3-306 [(7) – Table 608.1 deleted]

This change deletes an amendment that is no longer needed because it is now adequately addressed in the 2015 code.

15A-3-306(7) – Section 608.1:

This is a new amendment (general installation criteria) that is needed to clarify the installation requirements for the protection of a potable water supply system and to coordinate with the 2015 code changes and amendments that are being deleted.

15A-3-306(11) – Section 608.7:

This is an existing amendment (stop-and-waste valves) that is being modified to clarify the installation requirements.

15A-3-306 [prior (20) – Section 608.16.3 deleted]:

This change deletes an amendment that is no longer needed because it is now adequately addressed in the 2015 code.

15A-3-306(21) [prior (22)] – Section 608.16.7:

This is an existing amendment (chemical dispensers) that is being modified to clarify the requirements for installation of chemical dispensers and to coordinate with the requirements of the Department of Environmental Quality.

15A-3-306(22) [prior (23)] – Section 608.16.8:

This is an existing amendment that is being modified to coordinate with the 2015 codes.

15A-3-308(1) – Section 802.1.1:

This is a new amendment (food handling) that deletes a new requirement for multiple-compartment sinks so that they do not have to discharge independently to a waste receptor.

15A-3-310 Section 1002.4:

This change deletes an amendment that is no longer needed because it is now adequately addressed in the 2015 code.

15A-3-311 [prior (1) – Section 1104.2 deleted]:

This change deletes an amendment that is no longer needed because it is now adequately addressed in the 2015 code.

15A-3-311(1) - Section 1106.1.1:

This is a new amendment (storm drains) that will allow alternative methods to be used.

15A-3-313 [prior (1) Section 1301.1 deleted]:

15A-3-313 [prior (2) Section 1301.1.1 deleted]:

15A-3-313 [prior (3) Section 1301.2 deleted]:

15A-3-313 [prior (4) Section 1301.6 deleted]:

15A-3-313 [prior (5) Section 1301.7 deleted]:

15A-3-313 [prior (6) Section 1302.3 deleted]:

15A-3-313 [prior (7) Section 1303 deleted]:

These changes delete amendments that are being rewritten to coordinate with the 2015 code.

15A-3-313 (1) – Section 1301.4.1:

15A-3-313(2) – Section 1301.5:

15A-3-313(3) – Section 1301.9.5:

15A-3-313(4) – Section 1302.12.4:

15A-3-313(5) – Section 1303.15.6:

15A-3-313(6) – Section 1304.4.2:

These are new amendment that are being rewritten to replace amendments deleted above, to coordinate with the 2015 codes and to coordinate with requirements of the Utah Department of Health and the Utah Department of Environmental Quality to allow for the use of gray water recycling systems in commercial and residential areas.

15A-3-314 (1) Chapter 14:

This is a new amendment (subsurface landscape irrigation systems) that coordinates with the requirements of the Utah Department of Health and the Utah Department of Environmental Quality to allow for the use of gray water recycling systems in single family residential areas.

15A-3-315 [prior (1) – Chapter 14 deleted]:

This change deletes an amendment that is no longer needed because it is now adequately addressed in the 2015 code.

15A-3-315 [prior (3) – Appendix C deleted]:

This change deletes an amendment that is no longer needed because it is now adequately addressed in the 2015 code.

15A-3-401[prior (1) – Section 202 deleted]:
15A-3-401[prior (2) – Section 403.2.1 deleted]:
15A-3-401 [prior (3) – Section 403.3 deleted]:
15A-3-401[prior (4) – Section 403.3deleted]:
15A-3-401[prior (5) – Section 403.8 deleted]:
15A-3-401[prior (6) – Section 603.4 deleted]:

These changes delete amendments that are no longer needed because they are now adequately addressed in the 2015 code.

15A-3-401(1) [prior (7)] – Section 1004.2

This is an existing amendment (boilers and pressure vessels) that is changed to clarify that the Utah Labor Commission which regulates boilers may have greater requirements.

15A-3-401(4) – Section 1209.3:

This is a new amendment (embedded joints) that will allow alternative methods to be approved.

15A-3-501(3) – Section 631.2:

This is an existing amendment (boilers and pressure vessels) that is changed to clarify that the Utah Labor Commission which regulates boilers may have greater requirements.

15A-3-601 [prior (2) – Section 310.15(B)(7) deleted]:

This change deletes an amendment that is no longer needed because it is now adequately addressed in the 2015 code.

15A-3-601(2) – Section 240.87(B):

This is a new amendment (arc energy reduction) that will allow alternative means of installing overcurrent devices and could result in a cost savings.

15A-3-701[prior (1) - Section C202 deleted]:

15A-3-701[prior (2) - Section C404.4 deleted]:

These changes delete amendments that are no longer needed because they are now adequately addressed in the 2015 code.

15A-3-701(1) – Section C403.2.9.1.3:

This is a new amendment that is added for clarification.

15A-3-701(2) [prior (3) - Section R103.2:

This is an existing amendment that is being recommended to be carried forward.

15A-3-701 [prior (4) - Section R202 deleted]:

15A-3-701(3) [prior (5) - Section R303.3:

This is an existing amendment that is being recommended to be carried forward.

15A-3-701(4) – Section R401.2:

This a new amendment that is being recommended that will allow an additional means of compliance with the energy code.

15A-3-701(5) [prior (6)] - Table R402.1.1 and Table R402.1.3:

This is an existing amendment that is being modified by deleting the tables as they are no longer necessary but keeping the footnote.

15A-3-701 [prior (7) - Section R402.2.1 deleted]:

15A-3-701 [prior (8) - Section R402.2.2 deleted]:

15A-3-701 [prior (9) - Section R402.3.3 deleted]:

15A-3-701 [prior (10) - Section R402.3.4 deleted]:

These changes delete amendments that are no longer needed because they are adequately addressed in the 2015 code.

15A-3-701(6) [prior (11) - Section R402.4.1:

15A-3-701(7) [prior (12) - Section R402.4.1.1:

15A-3-701(8) [prior (13) - Section R402.4.1.2:

These are existing amendment that are being recommended to be carried forward with a modification in the wording to coordinate with the wording in the 2015 code.

15A-3-701 [prior (14) - Section R402.4.4 deleted]:

15A-3-701 [prior (15) - Section R403.2.2 deleted]:

These changes delete amendments that are no longer needed because they are adequately addressed in the 2015 code.

15A-3-701(9) [prior (16)] - Section R403.3.3:

This is an existing amendment that is being recommended to be carried forward with modifications.

15A-3-701(10) – Section R403.3:

This is a new amendment that is being recommended. It defines who is approved to do testing.

15A-3-701(11) – Section R403.3.4:

This is a new amendment that is being recommended. It will lessen the requirements. See discussion on Energy Code.

15A-3-701(12) [prior (17) - Section R403.2.3:

This is an existing amendment that is being carried forward with a modification in the section number. This is necessary to coordinate with the 2015 code.

15A-3-701 [prior (18) - Section R403.4.2 deleted]:

15A-3-701 [prior (19) - Section R403.5 deleted]:

15A-3-701 [prior (20) - Section R404.1 deleted]:

15A-3-701 [prior (21) - Table R405.5.2(1) deleted]:

15A-3-701 [prior (22) - Table R405.5.2(2) deleted]:

15A-3-701 [prior (23) deleted]:

These existing amendment are being recommended for deletion. See discussion on the Energy Code.

15A-3-701(13) – Section R406.2:

15A-3-701(14) – Section R406.4:

These are new amendments that are being recommended. These will lessen the requirements. See discussion on Energy Code.

15A-3-801(1) -Section 202:

15A-3-801(2) -Section 202:

15A-3-801(3) - Section 202:

15A-3-801(4) - Section 301.1:

15A-3-801(5) Section 403.5:

15A-3-801(6) - Section 705.1:

15A-3-801(7) - Section 707.3.1:

15A-3-801(8) - Section 1007.3.1:

15A-3-801(9) - Section 1012.8.2:

These are all new amendments needed as the result of the recommendation that the 2015 IEBC be changed from an approved code to an adopted code. This change was recommended because Chapter 34 of the 2015 IBC now only refers to the 2015 IEBC for existing buildings. These amendments will allow for other means for remodeling that could result in significant cost savings.

15A-3-901. General provision.

This section is renumbered to allow the addition of new section 15A-3-801.

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

This is an existing amendment that is being deleted upon the request of the City of Farmington. Subsequent sections are renumbered as the result of the deletion.

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

This is an existing amendment that is being deleted upon the request of the City of Farmington. Subsequent sections are renumbered as the result of the deletion.

Advisory Committee Reports

UNIFORM BUILDING CODE COMMISSION

MECHANICAL ADVISORY COMMITTEE
ARCHITECTURAL ADVISORY COMMITTEE
JOINT MEETING

August 4, 2015
Sandy City Hall Room 341
10000 Centennial Pkwy Sandy UT

MINUTES

STAFF:

Dan Jones, Bureau Manager
Sharon Smalley, Board Secretary

MECHANICAL ADVISORY COMMITTEE:

David Wilson	Tyler Lewis
Trent Hunt	Brent Ursenbach
Dennis Thatcher (absent)	Roger Hamlet
Dave Halverson	

ARCHITECTURAL ADVISORY COMMITTEE

David Triplett (excused)	Jerry Jensen (excused)
Scott Marsell	James Sullivan (excused)
Kenny Nichols	Chris Jensen
Gary Payne	

VISITORS:

Mitch Richardson	Kevin Emerson, Utah Clean Energy
Ron McArthur, McArthur Homes	

SWEAR IN NEW MEMBER

Dave Halverson, new member of the Mechanical Advisory Committee, was sworn in.

MINUTES

A motion was made by Trent Hunt to approve the minutes from the July 16, 2015 joint meeting. The motion was seconded by Scott Marsell and passed unanimously.

REVIEW 2015 IECC AND CURRENT AMENDMENTS

The Uniform Building Code Commission asked the committees to look at the 2015 energy code to consider possible amendments for the residential portion. Those present discussed various ways of amending the 2015 and still moving forward with energy conservation.

The committees reviewed the current amendments and the following recommendations were made.

A motion was made by Scott Marsell to keep the current amendment for Section R103.2. The motion was seconded by Kenny Nichols and passed unanimously.

A motion was made by Dave Halverson to keep the current amendment for Section R303.3. The motion was seconded by David Wilson and passed unanimously.

A motion was made by Dave Wilson to delete the current amendment for Table R402.1.1 and Table R402.1.3. The motion was seconded by Trent Hunt and passed unanimously.

A motion was made by Dave Wilson to add a new amendment for Table R402.1.2 to add the current amendment for footnote j. The motion was seconded by Chris Jensen and passed unanimously.

A motion was made by Dave Wilson to delete the current amendments for Sections R402.2.1, R402.2.2, R402.3.3 and R402.3.4. The motion was seconded by Kenny Nichols and passed unanimously.

A motion was made by Trent Hunt to keep the current amendment for Section R402.4.1. The motion was seconded Chris Jensen and passed unanimously.

A motion was made by Dave Halverson to keep the current amendment for Section R402.4.1.1. The motion was seconded by Trent Hunt. During the discussion the motion was amended to keep the amendment but modify the word "building" and change it to "code". The amended motion passed unanimously.

A motion was made by Dave Halverson to modify the current amendment for Section R402.4.1.2 by

modifying the word “building” and changing it to “code”. The motion was seconded by Trent Hunt and passed unanimously.

A motion was made by Gary Payne to delete the current amendment for Section R402.4.4. The motion was seconded by Trent Hunt and passed unanimously.

A motion was made by Trent Hunt to add an amendment for Section R403.3.4 that would change the total leakage for the rough-in test from 4 to 6 cfm and 113.3 L/min to 170 L/min, change 3 to 5 cfm and 85 L/min to 141.6 L/min and change the post construction test from 4 to 8 cfm and 113.3 L/min to 226.5 L/min. The motion was seconded by Scott Marsell and passed unanimously.

A motion was made by Dave Wilson to add and amendment for Section R403.3.3 that would add a sentence to the end stating “The following parties shall be approved to conduct testing: Parties certified by BPI or RESNET, or licensed contractors who have completed training provided by Duct Test equipment manufacturers or other comparable training.” The motion was seconded by Scott Marsell and passed unanimously.

A motion was made by Dave Wilson to modify the current amendment for Section R403.2.2 by changing the section number to R403.3.3 and 50 percent to 65 percent. The motion was seconded Kenny Nichols and passed unanimously.

A motion was made by Scott Marsell to modify the current amendment for Section R403.2.3 by changing the section number to 403.3.5. The motion was seconded by Kenny Nichols and passed with a vote of nine in favor and Dave Wilson voting in opposition.

A motion was made by Dave Wilson to add a new amendment for Section 406.2 that would delete the last sentence including the exception. The motion

was seconded by Dave Halverson and passed unanimously.

A motion was made by Dave Wilson to add a new amendment for Table 406.4 that would change the energy rating index for all eight climate zones. The ratings would change to 59, 59, 59, 63, 63, 62, 60 and 60. The motion was seconded by Gary Payne and passed unanimously.

A motion was made by Trent Hunt to add a new amendment for Section R401.2 and in Section N1101.13 of the IRC stating "Compliance may be shown by using the RESCheck "2012 Utah Energy Conservation Code" and showing compliance 10 percent better than code as shown by the above referenced software." The motion was seconded by Dave Wilson and passed unanimously.

A motion was made by Chris Jensen to take all of the recommended changes to the residential energy code and make the comparable changes in the IRC. The motion was seconded by Trent Hunt and passed unanimously.

The meeting adjourned at 12:24.

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.

Info Items

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

IRC AMENDMENT STATUS LOG
PENDING

Section to Amend	Proponent & Agency	Approved/Denied by Committee	Commissioner Appro/Deny for Hearing	Published	Public Hearing	Commissioner Appro/Deny Amendment
E3901.9	Electrical Committee	4-9-15				

IPC AMENDMENT STATUS LOG

PENDING

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Section to Amend	Proponent & Agency	Approved/Denied by Committee	Commission Appr/Deny for Hearing	PUBLIC HEARING	BUSINESS & LABOR INTERIM	Effective Date
IPC 605.2 IRC 2905.2	Murray City Gilbert Gonzales	5-1-14 denied	6-11-14 denied			
312	Jeff Park	5-1-14 approved	6-11-14 approved	9-10-14	10-15-14	
307.5		8-7-14 committee approved the deletion of new section				
403.1		9-4-14 modify				
412.5		9-4-14 modify				
502.4		9-4-14 modify				
608.1.2 & 608.1.3	Michael Moss	12-4-14 approved				
314.2.4.1 and .2	Ray Moore	Tabled No changes recommended 5- 7-15				
1002.1, .3 and .4 15A-3-314	Plumb-Tech Design	1-8-15 tabled 2-5-15 denied	7-8-15 no action taken			
705.11.2	Kevin Bell	5-7-15 denied Stay with current wording	7-8-15 no action taken			
802.1.1	Committee	4-2-15 approved				
608.16.7	Ron Lord	Denied 5-7-15	7-8-15 no action taken			
IBC Table [P] 2902.1	Alithia Zamantakis	denied	7-18-15 no action taken			

IEBC AMENDMENT STATUS LOG
PENDING

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

**FY July 1, 2014 - June 30, 2015 UBC
COMBINED BALANCE SHEET & INCOME STATEMENT
For May 1-31, 2015**

REVENUE	BUDGET	RECEIVED	ACTUAL YTD	
Surcharge Fees Projected (estimated only)	\$372,484.50	\$18,362.11	\$402,850.05	
Carryover Credit from Previous Years (after all payments)	\$975,909.00			
Total	\$1,348,393.50	\$18,362.11	\$402,850.05	
ADMINISTRATIVE ENCUMBRANCES	BUDGET	PAID	ACTUAL YTD	BALANCE
Salary and Benefits	\$ 63,705.86	\$ 4,518.78	\$ 53,189.08	\$ 10,516.78
Communication Services	\$ 500.00	\$ 37.64	\$ 411.91	\$ 88.09
Miscellaneous/Office Supplies & Printing/Library	\$ 50.00	\$ -	\$ -	\$ 50.00
Total	\$ 64,255.86	\$ 4,556.42	\$ 53,600.99	\$ 10,654.87
EDUCATIONAL GRANTS TO SCHOOLS		PAID	ACTUAL YTD	BALANCE
Bridgerland Applied Tech College	\$ 25,400.00	\$ 1,164.38	\$ 14,092.06	\$ 11,307.94
Davis Applied Tech College	\$ -	\$ -	\$ -	\$ -
Dixie State College (Dixie Applied Tech College)	\$ 10,380.00	\$ -	\$ 10,179.74	\$ 200.26
Salt Lake Community College	\$ -	\$ -	\$ -	\$ -
Southwest Applied Technology College	\$ 6,720.00	\$ 2,214.99	\$ 4,614.99	\$ 2,105.01
Uintah Basin ATC	\$ 7,200.00	\$ -	\$ 4,115.26	\$ 3,084.74
Utah Electrical JATC/IBEW	\$ -	\$ -	\$ -	\$ -
TOTAL	\$ 49,700.00	\$ 3,379.37	\$ 33,002.05	\$ 16,697.95
ASSOCIATION FUNDING GRANTS		PAID	ACTUAL YTD	
ACI Intermountain Chapter	\$ 3,732.00	\$ -	\$ -	\$ 3,732.00
AIA Utah Chapter	\$ -	\$ -	\$ -	\$ -
ASHRAE	\$ 13,975.00	\$ 7,807.55	\$ 7,807.55	\$ 6,167.45
Associated General Contractors - Utah / AGC-Utah	\$ -	\$ -	\$ -	\$ -
Associated Builders & Contractors of Utah	\$ -	\$ -	\$ -	\$ -
Beehive Chapter ICC	\$ 23,500.00	\$ -	\$ 15,120.00	\$ 8,380.00
Bonneville Chapter ICC	\$ 48,296.69	\$ -	\$ 32,067.73	\$ 16,228.96
Construction Specifications Institute Inc / CSI	\$ -	\$ -	\$ -	\$ -
Fire Marshal's Association of Utah	\$ 5,600.00	\$ -	\$ -	\$ 5,600.00
IEC of Utah (Independent Electrical Contractors)	\$ 29,140.00	\$ 1,440.00	\$ 19,662.80	\$ 9,477.20
Iron County Home Builders Association	\$ 8,300.00	\$ -	\$ 3,338.82	\$ 4,961.18
Northern Utah Building Inspectors	\$ -	\$ -	\$ -	\$ -
Park City Area Home Builders Association/PCAHBA	\$ -	\$ -	\$ -	\$ -
Rocky Mountain Gas Association	\$ 43,825.00	\$ -	\$ 10,873.35	\$ 32,951.65
Salt Lake Home Builders Association / SLHBA	\$ -	\$ -	\$ -	\$ -
SEAU (Structural Engineers Association)	\$ 21,000.00	\$ -	\$ -	\$ 21,000.00
Southern Utah Home Builders Association / SUHBA	\$ 24,000.00	\$ -	\$ 15,110.57	\$ 8,889.43
Southern Utah Division IAEI	\$ 5,900.00	\$ -	\$ 5,874.14	\$ 25.86
UAPMO	\$ 27,650.00	\$ 652.00	\$ 12,529.52	\$ 15,120.48
Utah Chapter IAEI	\$ 24,500.00	\$ 1,410.00	\$ 6,651.00	\$ 17,849.00
Utah Chapter ICC	\$ 106,596.00	\$ -	\$ 74,377.00	\$ 32,219.00
Utah Construction Suppliers Association	\$ 7,500.00	\$ -	\$ -	\$ 7,500.00
Utah Plumbing & Heating Contractors Association	\$ 12,020.00	\$ -	\$ -	\$ 12,020.00
Utah Homebuilders Association	\$ -	\$ -	\$ -	\$ -
Utah Division of Occupational and Professional Licensing	\$ -	\$ -	\$ -	\$ -
Utah Valley Homebuilders Association	\$ -	\$ -	\$ -	\$ -
TOTAL	\$ 405,534.69	\$ 11,309.55	\$ 203,412.48	\$ 202,122.21
TOTAL ENCUMBRANCES	\$ 519,490.55	\$ 19,245.34	\$ 290,015.52	\$ 229,475.03
REVENUES (LESS ACTUAL EXPENDITURES)		PAID	ACTUAL YTD	
Total Revenue (Surcharges plus carryovers)			\$ 1,378,759.05	
Less Actual Expenditures			\$ 290,015.52	
Less Approved Unpaid Encumbrances			\$ 229,475.03	
TOTAL RESERVES			\$ 859,268.50	

RESCheck Result (% above code)	REMRate Result (HERS Index)	Modeling details (all include 75% efficient lighting and proposed air leakage and duct tightness)
1.8%	74	R19 walls, R49 attic, R10 basement, .35 windows, 80 AFUE
9.8%	69	R13 walls, R38 attic, R10 basement, .35 windows, 95 AFUE, 13 SEER
10.0%	69	R13 walls, R38 attic, R11 basement, .34 windows, 95 AFUE, 13 SEER
8.7%	66	R15 walls, R11 basement, R38 attic, .32 windows, 92 AFUE, 13 SEER
11.5%	63	R15 walls, R38 attic, R13 basement, .29 windows, 96 AFUE, 13 SEER