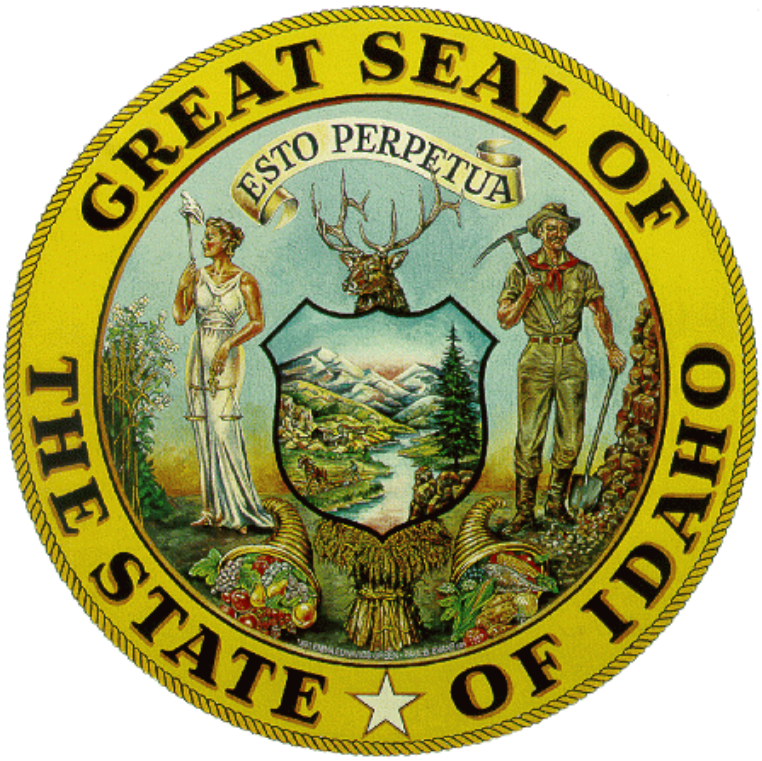
DIVISION OF BUILDING SAFETY

IDAHO BUILDING CODE BOARD
VIDEOCONFERENCE MEETING

FEBRUARY 19, 2019



IDAHO BUILDING CODE BOARD

Agenda Item No. 01 **Agenda and Minutes**

PRESENTER: Andrew Bick, Chairman

OBJECTIVE: Approval of the February 19, 2019 Agenda, and Board Meeting Minutes for October 16, 2018, November 13, 2018 (Special), December 11, 2018 (Special), January 15, 2018 (Special) and January 29, 2019 (Special)

ACTION: Consent

BACKGROUND:

PROCEDURAL HISTORY:

ATTACHMENTS: Tentative Agenda and Draft Minutes

TENTATIVE AGENDA

NOTICE OF PUBLIC MEETING

IDAHO BUILDING CODE BOARD
VIDEOCONFERENCE MEETING

Division of Building Safety
1090 East Watertower Street, Suite 150, Meridian
1250 Ironwood Drive, Suite 220, Coeur d'Alene
2055 Garrett Way, Building 1, Suite 4, Pocatello
Teleconference – 877-820-7831--529619
dbs.idaho.gov – (208) 332-7137

Tuesday, February 19, 2019

9:30 a.m. – 11:30 a.m. (MST)
8:30 a.m. – 10:30 a.m. (PST)

9:30 a.m. **CALL TO ORDER** – Andrew Bick, Chairman

- Roll Call & Introductions
- Open Forum

CONSENT AGENDA

1. Approval of the February 19, 2019 Agenda, and Board Meeting Minutes for October 16, 2018, November 13, 2018 (Special), December 11, 2018 (Special), January 15, 2018 (Special) and January 29, 2019 (Special) – Andrew Bick

INFORMATIONAL AGENDA

2. Discuss and Review 2018 Codes
   a. International Energy Conservation Code (Residential)
   b. International Energy Conservation Code (Commercial)
   c. International Building Code and International Existing Building Code
   d. International Residential Code

3. Program Manager Report – Jeff Egan, Building Program Manager

4. Administrator Report – Chris L. Jensen, Administrator
   a. Financial Report

11:30 a.m. **ADJOURN**

For additional agenda information, refer to the packet, available one week prior to this meeting, at the DBS's central and regional offices and https://dbs.idaho.gov/boards/bcboard/bcmeetings.html. All times, other than beginning, are approximate and scheduled in accordance to Mountain Standard Time (MST), unless otherwise noted. Agenda items may shift depending on the Idaho Building Code Board preference. 02/12/2019r

IDAHO BUILDING CODE BOARD
VIDEOCONFERENCE MEETING

Tuesday – October 16, 2018 – 9:30 a.m. (MDT)

Division of Building Safety
1090 East Watertower Street, Suite 150, Meridian
1250 Ironwood Drive, Suite 220, Coeur d'Alene
2055 Garrett Way, Building 1, Suite 4, Pocatello

*DRAFT MINUTES OF THE OCTOBER 16, 2018 MEETING

NOTE: The following report is not intended to be a verbatim transcript of the discussions at the meeting, but to record the significant features of those discussions.

Chairman Andrew Bick called the meeting to order at 9:36 a.m. (MDT)

Board Members Present:
Andrew Bick, Chairman
Jason Blais
Mike Tracy
Kent Soelberg
Allen Jensen
Nick Guho
John Cotner
Stan Browning
Chuck Bleth-Teleconference

DBS Staff Members Present:
Chris L. Jensen, Administrator
Ron Whitney, Deputy Administrator
Spencer Holm, Deputy Attorney General
Larry Jeffres, Regional Manager, Region 1
Patrick J. Grace, Regional Manager, Region 2
Adam Bowcutt, Regional Supervisor, Region 3
Renee Bryant, Administrative Assistant 2

- **Open Forum**

Videoconference – Deputy Administrator Ron Whitney explained the features of the Division's newly upgraded videoconference system.

Amend IRC Section 202, Abbreviations, and Chapter 6 to provide for Extended Plate Walls and Foam Plastic Insulating Sheathing – When questioned, at the August 2018 meeting, the Board felt the industry had the ability to go forward with the building method and wanted to wait and see what the International Code Council's (ICC) verdict was on it. Therefore, the Board tabled this topic indefinitely.

Code Adoption and Cycle Impacts – The Chairman read an email and two attachments from Johanna Bell, Representative for the Association of Idaho Cities (AIC), regarding the adoption of IRC appendixes and the impacts of the current code adoption cycles on FEMA and NFIP compliance.

AIC will hold Energy Code Collaborative meetings for stakeholder education and review of the 2018 International Energy Conservation Code (commercial) at its office, 3100 South Vista Avenue, on October 31, 2018, 8:30 AM to 12:30 PM (mountain), and December 4, 2018, 12:30 PM to 2:30 PM (mountain).

In reference to the "Conclusion" on page two of Ms. Bell's document regarding Appendix Q (tiny homes); the Board reviewed Appendix Q for incorporation into the 2018 code; however, the code has yet to be adopted by the legislature. In the interim, the Board recommended the legislature adopt Appendix R for tiny homes; which is the same language as Appendix Q. For clarity, appendixes are optional should the Authority Having Jurisdiction (AHJ) want to adopt them. To avoid confusion, Board Member Allen Jensen recommended a disclaimer "These appendixes do not apply unless adopted by the AHJ" be included in the code book published by ICC.

Board Member Jensen stated, if adopted, the 2015 or 2018 IRC has provisions for the one-foot free-board above the base flood elevations. Therefore, anyone currently above the base flood elevation, would now be below the design flood elevation, and may pay higher insurance rates.

ICC Website – The Chairman questioned whether ICC's website was down since several individuals were unable to access the Idaho Residential Code. The Deputy Administrator offered to check into this issue.

- **Approval of the October 16, 2018 Agenda and August 21, 2018 Board Meeting Minutes**
  MOTION: Mike Tracy made a motion to accept the agenda and minutes as presented. Kent Soelberg seconded. All in favor, motion carried.

- **Schedule 2019 Board Meetings**
  At the August 2018 meeting, the Board approved February 19 as the first regularly scheduled meeting of 2019. The remaining 2019 Idaho Building Code Board meeting dates are as follows: April 16, June 18, and October 15.

  MOTION: John Cotner made a motion to approve the remaining 2019 Board meeting dates. Mike Tracy seconded. All in favor, motion carried.

- **Program Manager Report**
  In the absence of the Program Manager, the Deputy Administrator presented the report.

  City of Meridian – Since the August meeting, DBS has concluded its building contract with the city of Meridian; shifting individuals involved in that program into other areas within the Division.

  Mechanical Program – In January 1, 2019, the Division will implement a new statewide mechanical program to require, in its jurisdiction, Manual J and Manual D submittals.

- **Administrator Report**
  Financial Report – With the recent changes, the Board's finances are in good shape.

  Interest Rates – The recent rise in interest rates will dramatically affect the cost to builders, specifically in commercial construction.

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Eastern Idaho Construction – In Burley, McCain Foods is investing in a large expansion that will cost more than $200 million dollars, and Basic American Foods will spend $131 million dollars on its expansion in Rexburg.

- **Adjournment**

MOTION: Mike Tracy made a motion to adjourn the meeting. Nick Guho seconded. All in favor, motion carried.

The meeting adjourned at 10:17 a.m. (MDT)

ANDREW BICK, CHAIRMAN IDAHO BUILDING CODE BOARD	CHRIS L. JENSEN, ADMINISTRATOR DIVISION OF BUILDING SAFETY
DATE	DATE

***These DRAFT minutes are subject to possible correction and final approval by the Idaho Building Code Board. 12/04/2018rb**

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IDAHO BUILDING CODE BOARD
SPECIAL VIDEOCONFERENCE MEETING

Tuesday – November 13, 2018 – 9:30 a.m. (MST)

Division of Building Safety
1090 East Watertower Street, Suite 150, Meridian
1250 Ironwood Drive, Suite 220, Coeur d'Alene
2055 Garrett Way, Building 1, Suite 4, Pocatello

*DRAFT MINUTES OF THE NOVEMBER 13, 2018 MEETING

NOTE: The following report is not intended to be a verbatim transcript of the discussions at the meeting, but to record the significant features of those discussions.

Chairman Andrew Bick called the meeting to order at 9:36 a.m. (MST)

Board Members Present:	**DBS Staff Members Present:**
Andrew Bick, Chairman	Chris L. Jensen, Administrator
Jason Blais	Ron Whitney, Deputy Administrator
Phil Roberts	Spencer Holm, Deputy Attorney General (Teleconference)
Stan Browning	Jeff Egan, Building Program Manager
Nick Guho	Larry Jeffres, Regional Manager, Region 1
Allen Jensen	Shelly Farris, Regional Supervisor, Region 3
John Cotner	Renee Bryant, Administrative Assistant 2

- **2018 International Building Code (IBC) for Commercial Buildings**

At the August 21, 2018 meeting, the Board voted to hold four "special" meetings, beginning in November 2018, to compare the 2015 codes with the 2018 codes for possible adoption.

This meeting is to discuss and review the 2018 IBC for commercial buildings, as well as the International Existing Building Code (IEBC). Board Member Jason Blais provided documentation summarizing the changes between the two code cycles of each code.

When asked, modifications to Section 420.7 *Corridor Protection in Assisted Living Units* are compliant with the Americans Disability Act. The International Code Council (ICC) has been, and continues to, review changes to the 2021 code for better accessibility.

Section 407.5 (Modification) -- *Maximum Smoke Compartment Size* – This section allows for larger smoke compartments in hospitals and other Group 1-2, condition 2 occupancies; i.e., compartments containing single-patient sleeping rooms/suites, as well as compartments without patient sleeping rooms.

302.1 (Clarification) -- *Classification of Outdoor Areas* – This pertains to occupied roofs. There is a provision, which is in the 2015 code, to allow Type I and II open storage garages below and an assembly area above. This section recognizes there must be some type of protected area to allow individuals to exit safely.

Chairman Bick suggested reviewing the document *2018 IBC Summary of Changes* in its entirety.

Chapter 2: Definitions
There were no questions or concerns with the additions and modification in Chapter 2.

Chapter 3: Use and Occupancy
311.1.1 (Modification) -- *Classification of Accessory Storage Spaces* – Originally, this section required 100 square feet per storage, however, there is no longer a limitation. The Chairman expressed this might be worthy of more conversation and possible clarification if the Board moves forward with the 2018 codes.

ACTION: Chapter 3, Section 311.11, to be brought back for further review at a future board meeting.

Chapter 4: Special Requirements for Use and Occupancy
Except for the previous discussion (see above), there did not seem to be a great deal of significance in this chapter.

Chapter 5: Height and Areas
There were no questions or concerns with the addition/modification in Chapter 5.

Chapter 6: Type of Construction
There were no questions or concerns with the modification in Chapter 6.

Due to time, the Chairman recommended only addressing sections that are glaringly in opposition of what the Board's intent is for the state of Idaho. In addition, if there are issues currently in the 2015, that has not been modified in the 2018 code, the Board may want to address and correct those before considering the adoption of the code.

Chapter 7: Fire and Smoke Protection Features
704.2, 704.4.1 (Modification) -- *Column Protection in Light-Framed Construction* – In the past, the Authority Having Jurisdiction would work on this topic outside of the code as alternate method. Board Member Blais and Chairman Bick feel this is a good modification where you can now go through the fire wall or party wall if you have easements and agreements addressing maintenance of all fire systems for both buildings.

716.2.6.5 (Addition) -- *Delayed-Action Self-Closing Doors* – There is an error in the description. The language is written, "…are not permitted…" however, should read, "…are now permitted…".

705 -- *Combustible Balconies, Projections, and Bay Windows* – Board Member Blais noted Section 705 is not in the *2018 IRC Summary of Changes*; however, there is a combustible projection in the change, and balconies and projections have been moved from Chapter 14 to Chapter 7.

Chapter 8: Interior Finishes
There were no questions or concerns with the addition in Chapter 8.

Chapter 9: Fire Protection System
903.2.1 (Clarification) -- *Sprinklers Required in Group A Occupancies* – Board Member Allen Jensen believes this goes with Section 913.2.1.5.1, which is spaces under grandstands and bleachers. Anything greater than 1100 square feet that is enclosed underneath is now required to be sprinkled.

907.2.10 (Deletion) -- *Group R-4 Fire Alarm Systems* – Board Member Phil Roberts stated the difficulty with deleting this section is there are problems with ambulatory issues; i.e., physical limitations of individuals, and an R-4 does not really restrict basements. Referring to the Significant Changes booklet by ICC, it states although deleted from section 907.2.10, single and multiple smoke alarms continue to be required in group R-4 occupancies as set forth in Section 907.2.10.2. Recommendation was to take a closer look at how the changes were modified in the 2018 code, whether the Board needs to address this topic further in its own state codes and/or compare the state codes when the Board reviews the International Residential Code.

ACTION: Chapter 9, Section 907.2.10, to be brought back for further review at a future board meeting.

903.3.1.2.3 (Addition) -- *Protection for Attics in Group R Occupancies* – Mid-rise buildings with a roof 55 feet or more will require a sprinkler system or acceptable alternative methods for protection. The new scoping provision is consistent with Section 6.6.6.1 of the 2016 NFPA, 13R, in requiring a sprinkler be installed only over the equipment.

Chapter 10: Means of Egress
1004.8, T1004.5 (Modification) -- *Occupant Load Calculation in Business Use Areas* – The calculation of occupant loads in business areas, based on gross square footage, has changed from 100 to 150. In addition, a concentrated occupant load factor of 50; i.e., call centers, has been added. This will help reduce requirements on plumbing, fixtures, etc. Chairman Bick stated this section would be worthwhile for board members to reach out to constituents to see if there is any major issue. The Chairman will contact architects for their input.

ACTION: Chapter 10, Section 1004.8, T1004.5, to be brought back for further review at a future board meeting.

1010.1.4.4 (Addition) -- *Locking Arrangements in Educational Occupancies* AND 1010.1.9.8 (Modification) -- *Use of Delayed Egress Locking Systems in Group E Classrooms and Courtrooms* – Both sections pertain to security and classroom settings. The addition to 1010.1.4.4 takes into account the blocking of an entrance for educational occupancies and how to deal with that so it doesn't affect egress and doors. Board Member Roberts recommended tabling the two sections to see what discussion comes from law enforcement and fire agencies.

Upon reading the "Description of Change" for 1010.1.4.4, Deputy Administrator Ron Whitney had the impression it is not an actual code specific item; offering for the Office of School Safety and Security to review the language for its thoughts as well.

ACTION: Chapter 10, Sections 1010.1.4.4 and 1010.1.9.8, to be brought back for further review at a future board meeting.

Chapter 11: Accessibility
There were no questions or concerns with the modification in Chapter 11.

Chapter 15: Roof Assembles and Rooftop Structures
1507.18 (Addition) -- *Building-Integrated Photovoltaic Roof Panels* – Clarification on specific language is needed on Photovoltaic Panel Systems.

ACTION: Chapter 15, Section 1507.18, to be brought back for further review at a future board meeting.

Chapter 16: Structural Design
There were no questions or concerns with the additions/modifications in Chapter 16.

Chapter 17: Special Inspections
1704.6 (Modification) -- *Structural Observation*, 1705.2.2 (Modification) -- *Meta-plate-connected Wood Trusses*, AND 1705.12.6 Item 6 (Addition) -- *Designated Seismic Systems/Fire Sprinklers* – These sections will require a third party or engineer to get involved for additional special inspections. Further detail on "Special Inspections" is in Chapter 7. It was agreed to further review the three sections as it is a concern this will incur additional costs to property owners.

ACTION: Chapter 17, Sections 1704.6, 1705.2.2, and 1705.12.6 Item 6, to be brought back for further review at a future board meeting.

Chapter 18: Soils and Foundations
There were no questions or concerns with the modification in Chapter 18.

Chapter 23: Wood
There were no questions or concerns with the additions/modifications in Chapter 23.

Chapter 29: Plumbing Fixtures
Table 2902.2 (Addition) -- *Footnote F* – Board Member Blais stated the addition of Footnote F to the table is a little questionable as you must go to the International Pool and Spa Code to determine the number of fixtures for an outside pool. The Chairman agreed this topic should be brought to a future meeting for further discussion.

ACTION: Chapter 29, Section 2902.2, to be brought back for further review at a future board meeting.

Chapter 30: Elevators and Conveying Systems
3001.2 (Addition) -- *Emergency Elevator Communication Systems* – The current code allows a radio system instead of a hardline copper line in elevators. Board Member Nick Guho questioned if a copper line is still mandated since many facilities literally must bring in one copper line for the elevator only. Board Member Roberts would like communication back from state elevator inspectors on what is the driving force behind this change. Chairman suggested discussing, more in depth, this section, as well as consult with elevator suppliers and state elevator inspectors.

ACTION: Chapter 30, Section 3001.2, to be brought back for further review at a future board meeting.

3006.2.1 (Addition) -- *Rated Corridors* – This is one of the things in code that has been going back and forth. The 2018 code is back to protecting hoistway openings. The reference to Section 3006.3 is not a change and is still in the code.

Chapter 31: Special Construction
3113 (Addition) -- *Relocatable Building* – Lisa Stover, Building Program Supervisor, asked for the opportunity to review this section after the meeting to ensure the code intent is in line with statute and rules. Chairman Bick will contact the Factory Built Structures Advisory Board Chairman Markus Alley for his input, and Deputy Administrator Whitney offered to canvas the industry.

ACTION: Chapter 31, Section 3113, to be brought back for further review at a future board meeting.

Chapter 33: Safeguards During Construction
3314 Addition (2018) -- *Fire Watch During Construction* – The Board agreed additional language, defining where this really lays out, would be required to make this section more applicable for the state of Idaho.

ACTION: Chapter 33, Section 3114, to be brought back for further review at a future board meeting.

Several board members left the meeting at noon. No longer a quorum of the Board, reviewed was *Robert's Rules of Order*. No action was required, except to adjourn; therefore, the meeting continued.

- **2018 International Existing Building Code (IEBC)**
Chairman Bick suggested reviewing the two-page summary titled *2018 International Existing Building Code (IEBC) Summary of Changes from 2015 IEBC.* Almost every section in the document has to do with a reference to standard or changes in a number; making it better to correlate with the IBC.

Section 502.7, 503.15, 805, 1105 (Addition) – Board Member Blais stated the Board should probably look at the IBC as well. An amendment was added as an exception for electrical in the

2015 code; however, it is not in the 2018. It was questioned whether the Board needed to match the amendment to the exception.

Section 506.4 (Modification) – This section considers buildings undergoing a change of occupancy; having live, snow, wind and seismic loads checked. Design loads are based on IBC-level forces. The question broached was would it create a scenario where suddenly structural engineers must come in and approve what is already existing is covered. The biggest issue is where there are no structural changes, only occupancy changes. In the past, structural was grandfathered in. As long as no one does not change major structural walls, it should be fine.

Board Member Jensen requested to hear from contractors and others on any current issues with the 2015 IBC code. If there is something mandated by law and is forcing anyone to do that which they would normally not do or do not feel comfortable doing, Mr. Jensen would like to know what those items are as well.

ACTION: Section 506.4 to be brought back for further review at a future board meeting.

Jeremy Jeffers, Architect, would like Chairman Bick and Building Program Manager Jeff Egan to attend one of the American Institute of Architects (AIA) meetings in January 2019. On February 13, 2019, the Associated General Contractors, AIA, American Council of Engineering Companies and Idaho Building Contractors Association are hosting a legislative reception.

Board Member Jensen will teach a class for the IBC on December 11, 2018 in Idaho Falls. When asked, Mr. Jensen will send an invite to the Mr. Egan.

The Idaho Building Code Board will hold a special meeting to discuss the 2018 International Residential Code on December 11, 2018, as well.

- **Adjournment**

MOTION: Allen Jensen made a motion to adjourn the meeting. Nick Guho seconded. All in favor, motion carried.

The meeting adjourned at 12:42 p.m. (MST)

ANDREW BICK, CHAIRMAN IDAHO BUILDING CODE BOARD	CHRIS L. JENSEN, ADMINISTRATOR DIVISION OF BUILDING SAFETY
DATE	DATE

***These DRAFT minutes are subject to possible correction and final approval by the Idaho Building Code Board. 02/13/2019rb**

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IDAHO BUILDING CODE BOARD
SPECIAL VIDEOCONFERENCE MEETING

Tuesday – January 15, 2019 – 9:30 a.m. (MST)

Division of Building Safety
1090 East Watertower Street, Suite 150, Meridian
1250 Ironwood Drive, Suite 220, Coeur d'Alene
2055 Garrett Way, Building 1, Suite 4, Pocatello

*DRAFT MINUTES OF THE JANUARY 15, 2019 MEETING

NOTE: The following report is not intended to be a verbatim transcript of the discussions at the meeting, but to record the significant features of those discussions.

Chairman Andrew Bick called the meeting to order at 9:40 a.m. (MST)

Board Members Present:
Andrew Bick, Chairman
Jason Blais, Vice-Chairman
Allen Jensen
Phil Roberts
Mike Tracy
Nick Guho
Stan Browning
John Cotner
Kent Soelberg
Chuck Bleth (Teleconference)

DBS Staff Members Present:
Chris L. Jensen, Administrator
Ron Whitney, Deputy Administrator
Jeff Egan, Building Program Manager
Spencer Holm, Deputy Attorney General
Jerry Peterson, Energy Program Manager
Larry Jeffres, Regional Manager, Region 1
Patrick L. Grace, Regional Manager, Region 2
Adam Bowcutt, Regional Manager, Region 3
Lisa Stover, Building Program Supervisor
Renee Bryant, Administrative Assistant 2

- **Open Forum**

  Idaho Code § 39-4108 Certification – Vice-Chairman Jason Blais provided a handout on proposed legislation by the Idaho Association of Building Officials (IDABO) regarding Idaho Code § 39-4108 Certification. The proposal will be presented at the 2019 legislature by Representative Jarom Wagner. The changes would be to remove language pertaining to the International Conference of Building Officials, new language allowing a new inspector six months to receive a valid International Code Council (ICC) residential building inspector certification, and new language that a new inspector be under the supervision of an ICC certified building inspector until certified.

- **2018 International Energy Conservation Code (Residential)**

  This meeting is to discuss and review, for possible adoption, the 2018 International Energy Conservation Code (IECC) on residential housing in Idaho.

  Upon providing supporting documentation, Jerry Peterson, Energy Program Manager, explained the vetting for this specific code began in September 2017, shortly after being published. Preliminary meetings have indicated if specific items are addressed then

stakeholders are interested in moving forward to the 2018 code. The intent today is to simply identify certain items and discuss any options. Any additional issues/items that may be introduced by the Board or stakeholders would be added to the list and Mr. Peterson would continue to work on those.

Presented in the document titled *2018 IECC Changes*, there are several changes to chapters 1, 2 and 4; however, only the new requirements are as follows: 1) Chapter 2 *Definition*--New definition of Air Impermeable Insulation, 2) Chapter 4 *Residential Energy Efficiency*--New section R403.3.6 Ducts buried with ceiling insulation, 3) Chapter 4 *Residential Energy Efficiency*--New section R403.3.7 Ducts located in conditioned space, and 4) New Chapter 5 *Existing Buildings*.

Items identified as potential concerns, in document titled *Potential Code Changes--2018 Residential IECC*, are: 1) Provide an exception for reducing attic insulation from R-49 to R-38 in Climate Zone (CZ) 5, 2) Blower door test--2018 requirement is three air changes per hour (ACH), 3) Discuss possible adjustment for the Energy Rating Index or Home Energy Rating System option, 4) Discuss clarification for "cost effective" piping insulation, and 5) Buried ducts in attics.

The predominant changes to the Prescriptive Table are U-factor for windows and lighting. The Energy Program Manager has comparisons on continuous insulation versus cavity insulation. Charts are available on diminishing returns on insulation. Charlie Allen, IDABO and city of Ammon, offered to share his information on ResChecks and air sealing with Energy Program Manager Peterson.

Dave Freelove, Idaho Energy Code Circuit Rider, provided an update on averages in the state of Idaho; specifically, CZs 5 and 6. An Idaho Residential Energy Code Field Study, completed last year, was based on the following major points: 1) Envelope tightness (ACH), 2) Windows (U-factor & Solar Heat Gain Coefficient), 3) Wall insulation, 4) Attic Insulation, 5) Crawl Walls, 6) Lighting, and 7) Duct Testing.

In 2019, Mr. Freelove will offer DET certification classes four times a year in the five different chapter regions in the state of Idaho. In addition, Mr. Freelove is working as the liaison with IDABO, who is open to listening to the concerns of the builders. To date, Mr. Freelove has not heard of any major resistance; stating everyone seems amicable to moving forward and making the necessary adjustments to the 2018 IECC, as needed.

Dave Yorgason, Building Contractors Association of Southwestern Idaho, commented the building community has stated multiple times it is looking for a consistent standard energy code across the state. The Building Contractors Association sent a statewide survey to its builder membership. An average of 25% to 35% of its members in each area of the state completed the survey. Mr. Yorgason agreed with the Energy Program Manager's five major items of concern. Upon further discussion, Mr. Yorgason asked, and Mr. Freelove agreed, to compare and review the Idaho Residential Energy Code Field Study when finalized.

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The remainder of the meeting pertained to discussion on blower door testing, ResCheck versus prescriptive, air change, insurance and training.

- **Adjournment**

MOTION: Mike Tracy made a motion to adjourn the meeting. John Cotner seconded. All in favor, motion carried.

The meeting adjourned at 11:14 a.m. (MST)

ANDREW BICK, CHAIRMAN IDAHO BUILDING CODE BOARD	CHRIS L. JENSEN, ADMINISTRATOR DIVISION OF BUILDING SAFETY
DATE	DATE

***These DRAFT minutes are subject to possible correction and final approval by the Idaho Building Code Board. 01/31/2019rb**

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IDAHO BUILDING CODE BOARD
SPECIAL VIDEOCONFERENCE MEETING

Tuesday – January 29, 2019 – 9:30 a.m. (MST)

Division of Building Safety
1090 East Watertower Street, Suite 150, Meridian
1250 Ironwood Drive, Suite 220, Coeur d'Alene
2055 Garrett Way, Building 1, Suite 4, Pocatello

*DRAFT MINUTES OF THE JANUARY 29, 2019 MEETING

NOTE: The following report is not intended to be a verbatim transcript of the discussions at the meeting, but to record the significant features of those discussions.

Chairman Andrew Bick called the meeting to order at 9:32 a.m. (MST)

Board Members Present:	**DBS Staff Members Present:**
Andrew Bick, Chairman	Ron Whitney, Deputy Administrator
Jason Blais, Vice-Chairman	Jeff Egan, Building Program Manager
Phil Roberts	Spencer Holm, Deputy Attorney General (Teleconference)
Mike Tracy	Jerry Peterson, Energy Program Manager
Nick Guho	Larry Jeffres, Regional Manager, Region 1
Stan Browning	Adam Bowcutt, Regional Manager, Region 3
Kent Soelberg	Lisa Stover, Building Program Supervisor
Chuck Bleth (Teleconference)	Renee Bryant, Administrative Assistant 2

- **Open Forum**
  There were no new issues to discuss under open forum.

- **2018 International Energy Conservation Code (Commercial)**
  This meeting is to discuss and review, for possible adoption, the 2018 International Energy Conservation Code (IECC) on commercial structures in the state of Idaho.

  Provided by Johanna Bell, Association of Idaho Cities, were three documents; *Significant Changes to the 2015 IECC and 2018 IECC Commercial*, *Proposed Modification to the 2018 IECC Commercial*, and *Code Correlation Between the International Mechanical Code (IMC) and the International Energy Conversation Code (IECC).*

  Erik Makela, New Buildings Institute (NBI), explained the process in which the document *Significant Changes to the 2015 IECC and 2018 IECC Commercial* was created. Chairman Bick specified the handouts by Ms. Bell are on the Division's website. Mr. Makela summarized the key changes in the document.

  In the 2018 code there is a new exception to C402.5 Air leakage–thermal envelope (Mandatory), as well as a Commission Report Checklist. In addition, there has been major reconstruction of the mechanical section.

Regarding LLC Option Path in the document *Significant Changes to the 2015 IECC and 2018 IECC Commercial*, Mr. Makela stated for prescriptive requirements in the code, an individual complies prescriptively then selects an efficiency option package. Two additional options have been added to the code, for a total of eight. The new options are *Reduced Air Infiltration* and *Enhanced Envelope Performance*.

When asked if there would be major changes in future codes, Mr. Makela stated one major change on the commercial side is option packages. Upon doing an analysis and finding not all options are equal in efficiency, Pacific Northwest National Laboratory developed a points-based approach. NBI is a co-sponsor to a proposal that replaces the options with a points-based method to equalize everything.

The document *Proposed Modification to the 2018 IECC Commercial* is a proposed amendment that adds a new exception to the testing requirement; providing consistency with the similar provision in ASHRAE 90.1 with no energy penalty. If the Board moves forward with the 2018 IECC commercial, Mr. Makela would propose adding the amendment to the code.

Chairman Bick briefly explained the negotiated rulemaking process; stating the Board's next regularly scheduled meeting is in February 2019.

- **Adjournment**

MOTION: Mike Tracy made a motion to adjourn the meeting. Nick Guho seconded. All in favor, motion carried.

The meeting adjourned at 10:26 a.m. (MST)

ANDREW BICK, CHAIRMAN IDAHO BUILDING CODE BOARD	RON WHITNEY, DEPUTY ADMINISTRATOR DIVISION OF BUILDING SAFETY
DATE	DATE

***These DRAFT minutes are subject to possible correction and final approval by the Idaho Building Code Board. 02/01/2019rb**

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IDAHO BUILDING CODE BOARD

Agenda Item No. 02a International Energy Conservation Code (Residential)

PRESENTER: Andrew Bick, Chairman

OBJECTIVE: Discuss and Review the 2015 versus 2018 IECC for residential.

ACTION: Informational

BACKGROUND: This topic was addressed at a special meeting of the Board on January 15, 2019.

PROCEDURAL HISTORY:

ATTACHMENTS: 2018 IECC Changes

2018 IECC Changes – (new requirements are in red)

Chapter 1 Scope and Administration

R102.1 Changes to wording requires "application" for alternative material or method and "written response" from code official if not approved.

Chapter 2 Definition – 12 items

Additions: added the words "number of stories"
Air Barriers: reworded for clarification
Air Impermeable Insulation: new definition
Alteration" remove "that requires a permit"
Approved: reworded for clarification
Approved Agency: added "or furnishing product certification"
Building Thermal Envelope: reworded for clarification and italicized to indicate definitions
Demand Recirculation Water System: reworded for clarification
Fenestration: the "vertical fenestration" definition was moved to a sub definition of "fenestration"
High Efficacy Lights: reworded for clarification
Labeled: change "inspection" agency to "approved" agency
Roof Assembly: remove "interior finishes" and add "thermal barrier and "ignition barrier"

Chapter 4 Residential Energy Efficiency – 18 items

R401.3 changed permanent certificate completed by builder or "design profession" to builder or other "approved" party.
R402 added exception for log homes designed with ICC 400
Table R402.1.2 Insulation and Fenestration Table: Window U-factors change from 0.32 to 0.30
R402.2.2 Ceilings without attic spaces: added additional language "Insulation shall extend over the top of the wall plate to the outer edge of such plate and shall not be compressed.
R402.2.5 Mass Walls: reworded for clarification
Table R402.2.6 Steel Framing Insulation table: remove R19 + 2.1 option (five options remain)
R402.4.2 Fireplaces: added italics to indicate definitions and clarified language
Table R402.4.1.1 Air Barrier and Insulation Installation Table;
clarify language on recessed lighting form "drywall" to "finished surface"
clarify language on tubs and showers from "them" to "the wall"
add HVAC register boots to be sealed to "wall covering" and "ceiling"
R403.3 Ducts: add sections 403.3.6 (buried ducts) and 403.3.7 (ducts in conditioned space)
R403.3.3 Duct testing: (exception) not required on HRV and ERV that are not integrated in HVAC system
New Section R403.3.6 Ducts buried with ceiling insulation.
New Section R403.3.7 Ducts located in conditioned space.

R403.5.2 Demand circulation water systems: language clarified and italicized for definition.
R403.6.1 Whole house mechanical ventilation: efficacy requirements and clarification on when ECM motors are required.
R403.10.3 Pool Covers. Change in exception from 70% to 75% (relative to renewables)
R404.1 Lighting equipment: changes requirement from 75% low efficacy to 90% *
R405.1 Scope: adds "mechanical ventilation" to simulated performance analysis
R405.3 Performance based compliance: change to State Energy Price "name of report"
R405.4.2 Compliance Report: adds verbiage for multi-family batch sampling
Table R405.5.2(1)

Air exchange rate: language clarification
Mechanical Ventilation fan efficacy formula (need info from proposal)
Thermal Distribution systems: adds exception for nonducted systems without a fan

R406.3 Energy Rating Index:

Reference to Resnet/ICC 301
ERI Reference Design Ventilation rate
Electric vehicles not included in ERI design

Table R406.4 ERI (HERS) scores raised to 61 for climate zones 5 & 6
R406.6.1 Compliance tools referenced to Resnet/ICC 301
R406.6.4 specific approval (referenced to R406.6.1)
R406.6.5 reference to Resnet/ICC 301

New Chapter 5 Existing Buildings – 4 items

R501.4 Compliance: adds International Existing Building Code
R502.1.1.2 clarifying language refers to single section R403
R503.1.1.1 Replacement fenestration (windows): adds new language that allows for area-weighted average as alternate for showing compliance.
R503.1.2 clarifying language refers to single section R403

Potential code changes

2018 Residential IECC

Provide an exception for reducing attic insulation from R-49 to R-38 in CZ 5.

ResCheck or ERI/HERS.
By heating degree days (ASHRAE or Wrightsoft).
By physical boundaries or elevation.
Need to do additional modeling.

Blower Door Test (2018 requirement is 3ACH)

Provide an exception to target (possibly 5ACH) with corrective action if test fails.
Verify air-seal check list items (ceiling penetrations, exterior wall outlets).
Allow sampling or testing of 20% of constructed homes.
Provide an exception for rural builders that build less than 5 homes per year.
Provide "responsive" free training and access to test equipment.
Need to do additional modeling.

Discuss possible adjustment for ERI (HERS) option.

Tiered approach for entry level homes.
Adjust score from 61 to 65. (Average score in Idaho is 64)

Discuss clarification for "cost effective" piping insulation.

Insulation not required for piping installed in the conditioned area.

Buried Ducts in Attics

Possible language to limit 3 feet from exterior walls and 1 foot from roof decks.
Technical reports and free training is available.

DRAFT

DRRCB078

LEGISLATURE OF THE STATE OF IDAHO

Sixty-fifth Legislature First Regular Session - 2019

This bill draft contains confidential and privileged information exempt from disclosure under Section 74-109(1), Idaho Code. If you have received this message by mistake, please notify us immediately by replying to this message or telephoning the Legislative Services Office at (208) 334-2475.

AN ACT

RELATING TO THE IDAHO BUILDING CODE ACT; AMENDING SECTION 39-4108, IDAHO CODE, TO PROVIDE FOR BUILDING PLANS EXAMINERS, TO REMOVE REFERENCE TO THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS, AND TO REVISE A PROVISION REGARDING INSPECTOR CERTIFICATION.

Be It Enacted by the Legislature of the State of Idaho:

SECTION 1. That Section 39-4108, Idaho Code, be, and the same is hereby amended to read as follows:

39-4108. CERTIFICATION. After July 1, 2002, state and local government building inspectors, including state safety advisors, shall hold a valid certification as a building inspector or building plans examiner issued by the International Code Council (ICC) ~~or the International Conference of Building Officials (ICBO)~~, except that a building inspector with a valid ICC ~~or ICBO~~ residential building inspector certification may only inspect structures regulated by the International Residential Code (IRC). A building inspector with a valid ICC ~~or ICBO~~ residential building inspector certification working under the supervision of an ICC ~~or ICBO~~ certified building inspector or building plans examiner may inspect all occupancy classifications for a period not to exceed three (3) years. ~~Any building inspector or plans examiner possessing state certification as of June 30, 2002, may continue to serve as a building inspector, without renewal, until July 1, 2005, at which time certification as an ICC or ICBO building inspector or plans examiner shall be necessary to retain inspection authority~~ An inspector may be hired without a valid ICC residential building inspector certification but must obtain such certification within a period of up to six (6) months after hire and must be under the supervision of an ICC certified building inspector or building plans examiner until such certification is obtained.

IDAHO BUILDING CODE BOARD

Agenda Item No. 02b International Energy Conservation Code (Commercial)

PRESENTER: Andrew Bick, Chairman

OBJECTIVE: Discuss and Review the 2015 versus 2018 IECC for commercial.

ACTION: Informational

BACKGROUND: This topic was addressed at a special meeting of the Board on January 29, 2019.

PROCEDURAL HISTORY:

ATTACHMENTS: Code Correlation between the International Mechanical Code and International Energy Conservation Code; Proposed Modification to the 2018 IECC Commercial; and Significant Changes to the 2015 IECC and 2018 IECC Commercial

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Significant Changes to the 2015 IECC and 2018 IECC Commercial

December 5, 2018

There is not a significant change in efficiency over the 2015 IECC, but preliminary estimates are for 5% +/- energy savings. There are minor changes to language and some measures. *This is not intended to replace reading the actual code language, but to summarize key changes.*

Significant Changes Between the Commercial Provisions of the 2015 IECC and 2018 IECC				
Topic	**2015 IECC**		**2018 IECC**	
Scope (e.g. references and definitions)				
ASHRAE Reference	References ASHRAE 90.1-2013		References ASHRAE 90.1-2016	
Language change	"Capable of"		"Capable of and configured to" or "Configured to". Note applies to HVAC and lighting control requirements.	
Language change	Vertical glazing		Sidelite	
Language change	Skylights		Toplite	
Climate Zones	N/A		Climate zones were updated per ASHRAE (doesn't affect Idaho)	
Building Envelope				
Slab-on-grade insulation	Requires slab edge insulation in Climate Zones 5 and 6 for heated slabs		Requires slab edge insulation and R-5 under slab under slab insulation in Climate Zones 5 and 6 for heated slabs	
SHGC	Climate Zone 5		Climate Zone 5	
	SEW	N	SEW	N
PF < 0.2	0.40	0.53	0.38	0.51
0.2 ≤PF < 0.5	0.48	0.58	0.46	0.56
≥ 0.5	0.64	0.64	0.61	0.61
Skylight area	Maximum 5% with automatic daylighting controls		Maximum 6% with automatic daylighting controls	
Maximum air leakage for fenestration assemblies Power-operated sliding doors and power operated folding doors	None		1.0 CFM	
Mechanical Systems				
Section reorganization	None		Reorganized Mechanical Chapter based on topics e.g. C403.1: General (Loads) C403.2: System Design C403.3: Equipment Efficiencies & Specs C403.4: HVAC Controls, etc.	

HVAC Equipment Efficiency Requirements	None	Updated a portion of the HVAC equipment efficiency tables based on updated ASHRAE 90.1-2016 equipment efficiency requirements
Vestibule space conditioning	No requirement	Heating systems for vestibules required to shut off with outdoor air temperature is > 45°F Heating systems configured to limit heating to < 60°F Cooling systems configured to limit cooling to > 85°F
Hydronic system part load controls	Systems ≥ 500,000 Btu/h heating must include part load controls	Systems ≥ 300,000 Btu/h heating must include part load controls Systems ≥ 500,000 Btu/h heating must include part load controls
Economizers serving dwelling units	Systems that serve *residential* spaces where the system capacity is less than five times the requirement listed in Table C403.3(1).	Individual fan systems with cooling capacity greater than or equal to 270,000 Btu/h (79.1 kW) in buildings having a *Group R* occupancy. The total supply capacity of all fan cooling units not provided with economizers shall not exceed 20 percent of the total supply capacity of all fan cooling units in the building or 1,500,000 Btu/h (440 kW), whichever is greater.
Automatic control of HVAC systems serving guest rooms	No requirements	In Group R-1 buildings with > 50 guestrooms, each guestroom will be provided with controls that: • Automatically raise cooling setpoint and lower heating setpoint by not less than 4ºF from occupant setpoint within 30 minutes after occupants leave (vacant) • Automatically raise cooling setpoint to not lower than 80ºF and lower heating setpoint to not higher than 60ºF when guestroom is unrented and is unoccupied more than 30 minutes (unrented). • Automatically turn off ventilation and exhaust fans within 30 minutes of occupants leaving OR • Isolation devices provided to each guestroom capable of automatically shutting off supply of outdoor air to and exhaust air from guestroom
Commissioning Report Checklist	None	Commissioning requirement checklist required

Commented [SG1]: Should this say "when" not "with"? The way this reads is a little unclear

Lighting Systems				
Allowed Lighting Power Density	No Change		Approximately 10% reduction in ALPD from 2015 IECC LPD levels	
Additional Retail Light Power	500 Watts +		1,000 Watts +	
	Retail Type	LPD	Retail Type	LPD
	1	0.6	1	0.45
	2	0.6	2	0.45
	3	1.4	3	1.05
	4	2.5	4	1.87
Occupancy sensors required	Required spaces where lights are typically left on after the occupant leaves.		Adds breakrooms, enclosed offices and open plan offices	
Occupancy sensor controls for open office plans	No requirement		Requires open plan office spaces to control general lighting in zones no greater than 600 square feet. General lighting in each zone required to be reduced by at least 80% after occupant leaves. Daylighting controls can only activate light after occupant is in the space.	
Exterior Lighting Power Allowance	No Change		Overall reduction in lighting due to LED base lighting assumptions	
LLLC Option Path???				
Options Packages				
Additional efficiency option packages	Included 6 options to select from		Add two options: Enhanced envelope performance • Reduce UA by 15% from prescriptive requirements Reduced air infiltration • 0.30 cfm / ft^2	

Commented [SG2]: Should this be added? If so, can you populate the details?

If you have questions about these changes, please contact the Idaho Circuit Rider, David Freelove, at energy@idabo.org.

Code Correlation between the International Mechanical Code (IMC) and the International Energy Conservation Code (IECC)

During the 2018 IECC Stakeholder meeting held in December, 2018 one of the attendees raised a potential issue that both the IMC and IECC require continuous under slab insulation for all heated slab on grade floors i.e. all slab floors that have radiant floor heating systems. This could create a conflict of both codes contained the same requirement.

A review of the 2018 IECC and IMC found the following:

- Table C402.1.3 of the 2018 IECC requires an R-5 insulation to be installed under the full slab. This was not a requirement in the 2015 IECC.

- A change was made to the 2018 IECC to remove the requirement for R-5 under slab insulation and reference the IECC (see below).

  1209.5 Thermal barrier required. Radiant floor heating systems shall be provided with a thermal barrier in accordance with Sections 1209.5.1 and 1209.5.2. Insulation *R*-values for slab-on-grade and suspended floor installation shall be in accordance with the *International Energy Conservation Code*.

Proposed Modification to the 2018 IECC Commercial

Modify the following provision as follows:

C402.5 Air leakage—thermal envelope (Mandatory). The *thermal envelope* of buildings shall comply with Sections C402.5.1 through C402.5.8, or the building *thermal envelope* shall be tested in accordance with ASTM E 779 at a pressure differential of 0.3 inch water gauge (75 Pa) or an equivalent method approved by the code official and deemed to comply with the provisions of this section when the tested air leakage rate of the building thermal envelope is not greater than 0.40 cfm/ft^2 (2.0 L/s • m^2). Where compliance is based on such testing, the building shall also comply with Sections C402.5.5, C402.5.6 and C402.5.7.

> **Exception:** For *buildings* having over 50,000 ft^2 of *conditioned floor area*, air leakage testing shall be permitted to be conducted on less than the whole *building*, provided the following portions of the *building* are tested and their measured air leakage is area-weighted by the surface areas of the *building envelope*:
>
> 1. The entire floor area of all stories that have any spaces directly under a *roof.*
> 2. The entire floor area of all stories that have a *building entrance* or loading dock.
> 3. Representative *above-grade wall* sections of the *building* totaling at least 25% of the *above-grade wall* area enclosing the remaining *conditioned space*; floor area tested per (1) and (2) shall not be included in the 25%.

Reason Statement

The proposed change to Section C402.5 of the 2018 IECC will provide consistency with the continuous envelope air barrier testing requirement of ASHRAE Standard 90.1 Section 5.4.3.1.3 Exception (a). This exception allows the commercial building builder to perform an envelope air leakage test on a representative sample of the building envelope for buildings having a conditioned floor area of over 50,000 ft^2. The exception specifies the portions of the building that should be included in the sampling, requiring those areas with the highest potential of air leakage to be tested e.g. spaces directly under roofs and spaces that contain building entrances and loading docks. Building entrances are required to have vestibules which, if not installed properly, will increase the air leakage in the building.

Adding this exception to the testing requirements will provide consistency with the similar provision in ASHRAE 90.1 with no energy penalty. This exception may encourage more testing under the 2018 IECC versus complying with the materials and assemblies option in the code.

IDAHO BUILDING CODE BOARD

Agenda Item No. 02c International Building Code and International Existing Building Code

PRESENTER: Andrew Bick, Chairman

OBJECTIVE: Discuss and Review the 2015 versus 2018 IBC and IEBC.

ACTION: Informational

BACKGROUND: This topic was addressed at a special meeting of the Board on November 13, 2018.

PROCEDURAL HISTORY:

ATTACHMENTS: 2018 IBC Summary of Changes; and 2018 International Existing Building Code® (IEBC®) Summary of Changes from 2015 IEBC

2018 IBC Summary of Changes

	Chapter 2: Definitions			
	Code Section		Section Title	Description of Change
	2018	2015		
1	202	202	**Definitions**	New definitions include “Greenhouse” and “Repair Garage” The definition for “Sleeping unit has been clarified while “Ambulatory care facility” and “Clinic, outpatient” have been relocated to chapter 2 with all definitions. Sleeping Unit: A room or space in which people sleep, which can also include single unit providing rooms or spaces for one or more persons that includes permanent provisions for sleeping, and can include provisions for living, eating and either sanitation or kitchen facilities but not both. Such rooms and spaces that are also part of a dwelling unit are not sleeping units.
	Chapter 3: Use and Occupancy			
	Code Section		Section Title	Description of Change
	2018	2015		
2	302.1 Clarifications	302.1	**Classification of Outdoor Areas**	It has been clarified that occupied roofs are to be assigned one or more occupancy classification in a manner consistent with the classification of uses inside the building, based upon the fire and life safety hazard posed by the rooftop activities.
3	310.4.2 Modification	310.4.2	**Owner-Occupied Lodging Houses**	The criteria permitting compliance with the IRC for the design and construciton of owner-occupied lodging houses has been expanded by now also requiring the the total number of lodging house occupants be limited to 10.
4	311.1.1 Modifications	31131.1	**Classification of Accessory Storage**	Regardless of sie, storage rooms and spaces that are accessory to other uses are to be classified as part of the occupacny to which they are accessory.
	Chapter 4: Special Requirements for Use and Occupancy			
	Code Section		Section Title	Description of Change
	2018	2015		
5	407.5 Modification	407.5	**Maximum Smoke Compartment Size**	The allowance for larger smoke compartments in hospitals and other Group I-2, Condition 2 occupancies has now been modified to only include compartments containing single-patient sleeping rooms and suites, as well as those compartments without patient sleeping rooms.
6	407.5.4 Modification	407.5.4	**Required Egress from Smoke Compartments**	In Group I-2 occupancies, any smoke compartment that does not have an exit from the compartment must now provide direct access to a minimum of two adjacent smoke compartments.
7	420.7 Modification	420.7	**Corridor Protection in Assisted Living Units**	Shared living spaces, group meeting spaces and multipurpose therapeutic spaces are now permitted to be open to fire-rated corridors in I-1 assisted living housing facilities provided specific conditions are met.

	Chapter 4: Special Requirements for Use and Occupancy Cont.			
	Code Section		Section Title	Description of Change
	2018	2015		
8	427 Addition		**Medical Gas Systems**	In order to provide a more comprehensive and efficient compilation of construction regulation, those IFC medical gas system requirements related directly to building construction have now been replicated in the IBC.
9	428 Addition		**Higher Education Laboratories**	Higher education laboratories using hazardous materials can now be considered Group B occupancies provided sub laboratories comply with the new Section 428 which provides an alternative approach to the existing control area provisions.
	Chapter 5: Height and Areas			
	Code Section		Section Title	Description of Change
	2018	2015		
10	503.1, 706.1 Modification	503.1, 706.1	**Scope of Fire Wall Use**	The use of fire walls is now strictly limited to only the determination of permissible types of construction, based upon allowable building area and height.
11	503.1.4 Addition		**Allowable Height and Area of Occupied Roofs.**	New criteria is now provided establishing the appropriate methodology in the regulation of building height in stories above grade plane where one or more occupancies is located on the roof.
	Chapter 6: Type of Construction			
	Code Section		Section Title	Description of Change
	2018	2015		
12	Table 601, Note b Modification	Table 601, Note b	**Fire Protection of Structural Roof Members**	All portions of the roof construction, including primary structural frame members such as girders and beams, are now selectively exempted from fire-resistance requirements based on Table 601 where every portion of the roof construction is at least 20 feet above any floor below. Footnote 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 an decking where every part of the roof construction is 20 feet or more above any floor immediately below.
	Chapter 7: Fire and Smoke Protection Features			
	Code Section		Section Title	Description of Change
	2018	2015		
13	704.2, 704.1 Modification	704.2, 704.4.1	**Column Protection in Light-Framed Construction**	In walls of light-frame construction where primary structural frame members require fire-restive protection, columns extending only between the bottom and top plates do not need to be provided with individual encasement protection.

	Chapter 7: Fire and Smoke Protection Features Cont.			
	Code Section		Section Title	Description of Change
	2018	2015		
14	706.1.1 Modification	7061.1	**Party Walls Not Constructed as Fire Walls**	New Exception #2- Construction as a fire wall is no longer required for a party wall provided the aggregate height and area of the buildings on each side of the party wall are compliant with Chapter 5 and applicable easements and agreements are established addressing the maintenance of all fire and life safety systems of both buildings.
15	713.8.1 Modification	713.8.1	**Membrane Penetration of Shaft Enclosures**	Membrane penetrations not related to the purpose of a shaft enclosure are no longer prohibited from penetrating the outside of the enclosure.
16	716.2.6.5 Addition		**Delayed-Action Self-Closing Doors**	Self-closing doors that are not also required to be automatic-closing are not permitted to be equipped with delayed-action closers.
	Chapter 8: Interior Finishes			
	Code Section		Section Title	Description of Change
	2018	2015		
17	803.11, 803.12, Addition		**Flame Spread Testing of Laminates and Veneers**	Specific flame-spread testing provisions have been added to the IBC to address the use of factory-produced laminated products with a wood substrate as well as facings and wood veneer applied over a wood substrate on site.
	Chapter 9: Fire Protection Systems			
	Code Section		Section Title	Description of Change
	2018	2015		
18	902.8 Addition		**Fire Pump and Fire Sprinkler Riser Rooms**	A number of prescriptive requirements have been added regulating the design and construction of automatic sprinkler system riser rooms and fire pump rooms. Access/Marking on access door/Environment/Lighting.
19	903.2.1 Clarification	9.3.2.1	**Sprinkler Requirements in Group A Occupancies**	The extent to which automatic sprinkler system are required in multi-story Group A occupancies has been clarified. Each A occupancy now specifically indicates the portions of the buildings required to be sprinklered.
20	903.2.3 Modification	903.2.3	**Sprinklers in Group E Occupancies**	Criteria for occupant load threshold and location within the building have been added as conditions that could require sprinkler protections in an Group E education occupancy.
21	903.3.1.2.1 Modification	903.3.1.2.1	**Sprinkler Protection at Balconies and Decks**	Where nonrated balconies and similar combustible projections of dwelling and sleeping units are permitted in Type IIIA and VA buildings, it has been clarified that the sprinkler protection is to be extended to the area of the projections.
22	903.3.1.2.3 Addition		**Protection for Attics in Group R Occupancies**	Sprinkler protection or acceptable alternative methods for protection of attics are now addressed for mid-rise building housing multi-family occupancies and equipped with an NFPA13R sprinkler system.

	Chapter 9: Fire Protection Systems Cont.			
	Code Section		Section Title	Description of Change
	2018	2015		
23	907.2.10 Deletion	907.2.10	**Group R-4 Fire Alarm Systems**	The installation of a manual fire alarm system and an automatic smoke detection system are no longer required in Group R-4 occupancies.
	Chapter 10: Means of Egress			
	Code Section		Section Title	Description of Change
	2018	2015		
24	1004.8, T1004.5 Modification	1004.8, Table 1004.5	**Occupant Load Calculation in Business Use Areas**	The method of calculating occupant load in business areas has been revised which will typically result in reduced design occupant loads. However, higher design occupant loads can be assigned to concentrated business areas such as telephone call centers and similar uses. Business OLF 150 gross (formerly 100) Concentrated OLF 50 gross, call centers.
25	1008.2.3 Clarification	1008.2.3	**Illumination of the Exit Discharge**	Illumination shall be provided along the path of travel from the exit discharge from the exit to the public way.
26	1010.1.4.4 Addition		**Locking Arrangements in Educational Occupancies**	Guidance has been provided to allow for enhanced security measures on educational classroom egress doors and yet still continue to comply with applicable means of egress requirements.
27	1010.1.9.8 Modification	1010.1.9.8	**Use of Delayed Egress Locking Systems in Group E Classrooms and Courtrooms**	The allowance for the use of delayed egress locking systems has been expanded to also include egress doors serving Group E classrooms with an occupant load of less than 50, as well as secondary exits or exit access doors serving courtrooms.
28	1010.3.2 Addition		**Security Access Turnstiles**	New conditions of use are now provided to the building official with criteria to evaluate security access turnstiles that are located in a manner to obstruct a means of egress.
29	1013.2 Modification	1013.2	**Floor Level Exit Sign Location**	The permitted location for low-level exit signs selectively required in Group R-1 occupancies has been expanded to now allow the bottom of such sign to be mounted up to 18 inches above the floor.
30	1023.3.1 Modification	1023.3.1	**Stairway Extensions**	Fire-resistance-rated separation is not required between an interior exit stairway and its exit passageway extension where both the stair enclosure and exit passageway are pressurized.
31	1030.1 Clarification	1030.1	**Required Emergency Escape and Rescue Openings**	The occupancies where emergency openings are required have been clarified and the minimum number of required openings in a residence has been revised.

	Chapter 11: Accessibility			
	Code Section		Section Title	Description of Change
	2018	2015		
32	1109.2.1.2 Modification	1109.2.1.2	**Fixtures in Family or Assisted-Use Toilet Rooms**	Family or assisted-use toilet rooms may now also contain a child height water closet and lavatory in order to provide a higher level of accommodation.
	Chapter 15: Roof Assemblies and Rooftop Structures			
	Code Section		Section Title	Description of Change
	2018	2015		
33	1507.1 Clarification	1507.1	**Underlayment/ Ice Barriers**	Reorganization: Underlayment and ice barrier requirements have been relocated from sections describing each type of roofing material and placed into one new section describing the type, attachment and application of underlayment.
34	1507.18 Addition		**Building-Intergrated Photovoltaic Roof Panels**	Building-integrated photovoltaic panel systems have specific requirements as a roof-covering material in the IBC.
	Chapter 16: Structural Design			
	Code Section		Section Title	Description of Change
	2018	2015		
35	1603.1 Modification	1603.1	**Construction Documents**	The construction document requirements for environmental and special loads have been updated for rain, snow and wind forces and their components.
36	Table 1607.1 Modification	Table 1607.1	**Deck Live Load**	Table 1607.1 is now consistent with the provisions in the 2010 and 2016 editions of the ASCE 7 for minimum uniformly distributed live loads on decks and balconies by increasing the deck live load to 1.5 times the live load, not to exceed 100, of the area served. (2015 IBC-same as occupant served)
37	1607.15.2 Addition		**Minimum Fire Load**	The minimum lateral load that fire walls are required to resist has been established at 5 pounds per square foot.
38	1609 Modification	1609	**Wind Loads**	Section 1609 now has updated wind speed maps. Terminology for describing wind speeds has been changed again with ultimate design wind speeds now called basic design wind speeds.
39	1613 Modification	1613	**Seismic Loads**	Section 1613 the site coefficients containted in the IBC have been brought into alignment with the newest generation of ground motion attenuation equations. Table 1613.2.3(1) and Table 1613.2.3(2) have been updated.

	Chapter 17: Special Inspections			
	Code Section		Section Title	Description of Change
	2018	2015		
40	1704.6 Modification	1704.6	**Structural Observation**	Section 1704.6.1 has been added requiring structural observation of buildings that are considered a high-rise or assigned to Risk Category IV.
41	1705.2.2 Modification	1705.2.2	**Meta-plate-connected Wood Trusses**	Five-foot tall wood trusses requiring permanent bracing now requires a periodic special inspection to verify that the required bracing has been installed.
42	1705.12.6 Item 6 Addition		**Designated Seismic Systems/ Fire Sprinklers**	Section 1705.12.6 adds a provision for special inspection for minimum clearance of fire sprinkler components considered as a designated seismic system.
	Chapter 18: Soils and Foundations			
	Code Section		Section Title	Description of Change
	2018	2015		
43	1807.2 Modification	1807.2	**Retaining Walls**	The requirement for consideration of a keyway in the sliding analysis of retaining walls has been deleted from Section 1807.2.1.
	Chapter 23: Wood			
	Code Section		Section Title	Description of Change
	2018	2015		
44	2303.6 Modification	2303.6	**Nails and Staples**	Nails and staples are required to conform to the standard ASTM F 1667 including Supplement 1. Minimum average bending moment values are added for staples.
45	Table 2304.9.3.2 Addition		**Mechanically Laminated Decking**	A new alternative fastener schedule for construction of mechanically laminated decking is added to the 2018 IBC giving equivalent power-driven fasteners for the 20 penny nail.
46	Table 2304.10.1 Modification	Table 2304.10.1	**Ring Shank Nails**	The 2018 IBC and IRC are now aligned by requiring an 8-penny common or ring shank nails when nailing 6:12 on center for roofing.
	Chapter 29: Plumbing Fixtures			
	Code Section		Section Title	Description of Change
	2018	2015		
47	Table 2902.1	Table 2902.1	**Min Number of Required Plumbing Fixtures**	The table has been reformatted and no longer includes occupancy classifications.

	Chapter 29: Plumbing Fixtures Cont.			
	Code Section		Section Title	Description of Change
	2018	2015		
48	Table 2902.2 Addition	Table 2902.2	**Footnote F**	Foot note F has been added to the table. The required number and type of plumbing fixtures for outdoor swimming pools shall be in accordance with Section 609 of the International Pool and Spa Code.
49	2902.2 Addition	2902	**Separate Facilities**	Exception #4 added -Separate facilities shall not be required in business occupancies in which the maximum occupant load is 25 or fewer. This would only apply to B occupancies.
	Chapter 30: Elevators and Conveying Systems			
	Code Section		Section Title	Description of Change
	2018	2015		
50	3001.2 Addition		**Emergency Elevator Communication Systems**	Additional communication capabilities are now required in accessible elevators to enhance the usability of the two-way communication system by individuals with varying degrees of hearing or speech impairments.
51	3006.2.1 Addition		**Rated Corridors**	Where corridors are required to be fire-resistance rated in accordance with Section 1020.0, elevator hoistway openings shall be protected in accordance with Section 3006.3.
	Chapter 31: Special Construction			
	Code Section		Section Title	Description of Change
	2018	2015		
52	3111.1 Addition		**Solar Energy Systems**	Solar Energy System section has been extensively added to address many code and life safety issues.
53	3113 Addition		**Relocatable Building**	A process of acceptance for relocatable modular building has been established in order to provide clear and consistent direction in the relocation, reuse and/or repurposing of such buildings.
	Chapter 33: Safeguards During Construction			
	Code Section		Section Title	Description of Change
	2018	2015		
54	3314 Addition		**Fire Watch During Construction**	In order to protect adjacent properties from fire in a building of considerable height when under construction, new provisions have been established to give authority to the fire code official to require a fire watch during those hours where no construction work is being done.

2018 International Existing Building Code® (IEBC®) Summary of Changes from 2015 IEBC

1. Section 303-(Organizational Change) Requirements for live loads from Chapters 4 and 8 have been combined and placed in Chapter 3 as they apply for all compliance methods.

2. Section 303.3.2 – (Deletion) In order to clarify and simplify concrete evaluation and retrofit, ASCE 41 continues to be directly referenced. Appendix Chapter A5 Earthquake Hazard Reduction in Existing Concrete Buildings is deleted from the 2018 IEBC.th in Section 303.3.2 to ASCE 41.

3. Section 305- (Organizational Change) Section 410 Accessibility has been relocated to a new Section 305. Chapters 4, 5, 6, 13 and 14 have been relocated, resulting in a reorganization of the provisions and new chapter numbering.

4. Section 405.2.1.1 – (Addition) Structural components damaged by snow events must be repaired assuming snow loads for new buildings from the IBC. Updated snow loads have been provided in the ASCE7-16 to include Idaho snow loads.

5. Section 502.4 – (Modification) A new exception is added for loading of existing structural elements next to an addition in buildings designed using the IRC. Exemption provided for Buildings containing not more than 5 dwelling or sleeping units used solely for residential purpose where existing building and the addition together comply with Light framed construction methods.

6. Section 502.7, 503.15, 804, 1105 - (Addition) Carbon monoxide provisions have been added in Prescriptive Method Additions, Alterations, Level 2 Additions, and Additions for Group I-1, I-2, I-4 and R occupancies.

7. Section 503.7 – (Addition) Anchorage for concrete and reinforced masonry walls. When a work area includes more than half the building floor area in an alteration, wall anchors must be installed at the roof line along reinforced concrete and reinforced masonry walls. Seismic Design Category C, D, E or F.

8. Section 503.10 – (Addition) Anchorage for unreinforced masonry partition in major alterations. A mitigation trigger has been added to the 2018 IEBC to address a common nonstructural falling hazard. When a work area includes more than half the building floor area in an alteration, unreinforced masonry partitions and nonstructural walls within the work area and adjacent to egress paths from the work area shall be anchored, removed, or altered to resist out-of-plane seismic forces, unless an evaluation demonstrates compliance of such items. Seismic Design Category C, D, E or F.

9. Section 505.4 and 701.4 – (Addition) Emergency Escape and Rescue Opening provisions related to being operational have been added to Prescriptive Compliance Method and Alterations Level 1.

10. Section 506.4 – (Modification) Buildings undergoing a change of occupancy shall have live, snow, wind and seismic loads checked. Design loads are based on IBC-level forces. Exceptions: Structural elements whose demand-capacity ratio considering the change of occupancy is not more than 5% greater than the demand-capacity ratio based on previously approved live loads needed to comply with this section.

11. Section 506.4.3 – (Modification) When a change of occupancy occurs placing a building in a higher risk category, the seismic loads on the building must be evaluated using IBC-level forces.

12. Section 507.4 – (Addition) Historic buildings shall comply with the applicable structural provisions in this chapter. Exceptions: 1. The code official shall be authorized to accept existing floors and existing live loads and to approve operational controls that limit the live load on any floor. 2. Repair of substantial structural damage is not required to comply with section 405.2.3 and 4.5.2.4. Substantial structural damage shall be repaired in accordance with section 405.2.1.

13. Section 805.3.1.1 – (Modification) Single exit buildings and spaces under Alteration Levels 2 and 3 have been modified to be more consistent with the IBC.

14. Section 904.1.4 – (Modification) The Alterations Level 2 requirement that water for automatic fire sprinkler system be available at the floor of alteration without the need for a fire pump has been moved to Chapter 9 for Alterations Level 3 and the fire pump criterion was deleted.

15. Section 906.7 – (Addition) The 2018 IEBC adds a mitigation trigger to address a common nonstructural falling hazard: unreinforced masonry partitions, parapet.

IDAHO BUILDING CODE BOARD

Agenda Item No. 02d **International Residential Code**

PRESENTER: Andrew Bick, Chairman

OBJECTIVE: Discuss and Review the 2015 versus 2018 IRC.

ACTION: Informational

BACKGROUND: This topic was addressed at a special meeting of the Board on December 11, 2018.

PROCEDURAL HISTORY:

ATTACHMENTS: Summary: How Idaho Residential Code Adoption May Impact National Flood Insurance Program Participation and Community Insurance Rates or FEMA Disaster Funding; Local Government Building Code Adoption Review: 2012 International Residential Building Code Appendixes; and 2018 IRC Significant Code Changes

Legend:

- **Blue Text = Recommended action with little impact to the current 2012 IRC. Code.**
- **Red Text = Greater impact to the 2012 IRC as adopted by Idaho. Action item for further discussion and coordination with IDAPA Rules and/or other codes.**
- **Recommend as amendments to the current Idaho Residential Code.**

Chapters 1 and 2:

IRC Section R101.2. Scope:

2018 IRC Modifications: Clarified scope of code application, clarified the exceptions, added 3 exceptions for a total of 5 exceptions. –

2015 IRC Modifications: Increased maximum structure height from 2 to 3 stories, removed area and height restrictions on accessory structures.

Comments:

- **Recommended, a positive change for accessory structures.**
- **This will need to go through the amendment process if we want to change it to be consistent with 2012 IDAPA.**
- **Do we want to exempt from sprinklers?**
- **Recommend as amendment to the current Idaho Residential Code.**

IRC Section R104.11 Alternative Materials and Methods of Construction:

2018 IRC Modification: Clarified alternative methods section and criteria for approval by Building Official.

2015 IRC Modifications: Added text "Where the alternative material, design or method of construction is not approved, the building official shall respond in writing, stating the reasons why the alternative was not approved." – Recommended

Comments:

- **Recommended: Positive in that it requires a formal request and action of approval if equivalent.**

- **Requires an application and criteria for equivalency by requestor. Building Official must approve if equivalent.**

IRC Section R105.1, R110.1, R202 Change of occupancy:

2018 IRC Modifications: Section R105.1 Change of wording for issuance of certificate of occupancy, Section R110.1 changes to wording for use and occupancy; and R202 Modification of Definition of Occupancy. No Modifications in 2015.

Comments:

- **Recommended: Positive clarifies change of use.**

Section R105.3.1.1 Determination of Substantially Improved or Substantially Damaged Existing Buildings in Flood Hazard Areas:

2015 IRC Modification: Revised text to better define determination of Substantially Improved or Substantially Damaged Existing Buildings in Flood Hazard Areas.

Comments:

- **Recommended: Positive clarifies definitions and code section.**

Section R106.1.4 Information for Construction in Flood Hazard Areas:

2015 IRC Modification: Clarification of requirements for elevation requirements for Costal A Zones.

Comments:

- **Recommended: Positive clarifies code section.**

Section R202: Definitions:

2018 IRC Modifications: Definitions changed from Accessible to Access (To), from Accessible, Readily to Ready Access (To), and revision to Clean out to match the above term changes.

- Changes made to definitions of Carbon Monoxide Alarm and Carbon Monoxide Detector clarifying the differences to the two.
- Changes made to definition of Fenestration.
- New definitions were added to related solar energy systems.

Comments:

- **Recommended: Clarifies definitions for all items above.**

Chapter 3

IRC Table R301.2 (1) Climatic and Geographic Design Criteria:

2018 IRC Table R301.2 (1) Climatic and Geographic Design Criteria. Modification added Manual J design criteria to include variables for Manual J assessments with other climatic and geographic design criteria.

2015 IRC Modification: Ultimate design wind speed values replace basic wind speed values for 3-sec gust wind speeds in Section R301.2.1. A wind speed conversion table has been added for conversion from ultimate design to nominal design wind speeds.

Comments:

- **Recommended: Clarifies all items above.**

Section R301.2.2.1 Seismic Design Category:

2018 IRC Section R301.2.2.1 Seismic Design Category. Modification of a new alternative seismic map allows potentially a lower seismic design category based on determination of soil type. No code Modifications in 2015.

Comments:

- **Recommended: Very Positive. Many jurisdictions are in a D - category that this could benefit from lower design standards for this category.**

Section R301.2.1.2 Protection of Openings:

2015 Modification: This change replaces 2-story limit on use of wood structural panels for wind-borne debris protection with limit based on 33-foot mean roof height. (RB41) –

Comments:

- **Not Applicable to our geographical area.**

Section R301.2.1.4 Wind Exposure Category:

2015 Modifications: Wind Exposure Category A is deleted. In the 2012 IRC, Wind Exposure Category D applied to regions adjacent to open water in non-hurricane prone regions. Wind Exposure Category D now applies to open water, mud and salt flats, and unbroken ice fields. Exposure Category D also applies in hurricane-prone regions to residences on or near the ocean shore.

Comments:

- **Positive change in our geographical area.**

Section R301.2.2.6 Irregular Buildings:

2018 IRC Section R301.2.2.6 Irregular Buildings. Modification. Has been rearranged to avoid confusing language in 2015 IRC. No code modification between 2012 – 2015.

Comments:

- **Recommended: Positive change clarifies confusing language.**

Section R301.3 Story Height:

2015 Modifications: Story height of wood and steel wall framing, insulated concrete, and SIP walls may not exceed 11 feet, 7 inches. Masonry wall height is limited to 13 feet, 7 inches.

Comments:

- **Recommended: Positive Change.**

Section R302.1 Exterior Walls:

2018 IRC Section R302.1 Exterior Walls. Modification. References to the IBC offer additional options and provide flexibility in determining the fire-resistance rating of exterior wall assemblies.

2015 Modification: Unprotected eave ≥ 2 ft. FSD with fire-blocking ß Unprotected penetrations ≥3 ft. FSD .

Comments:

- **Recommended: Positive change adds more clarification and options for fire resistive rating.**
- **Requires coordination with current IDAPA building separation table.**

IRC Section R302.2 Townhouse Separation:

2018 IRC Section R302.2 Townhouse Separation. Modification. Two pathways for achieving the fire-resistance separation between Townhouse dwelling units.

Code Modification 2012 – 2015: Removes reference to R302.1. Mandates a common wall for separating townhouses. Allows 2-hour rated common wall without sprinklers and 1-hour rated wall with sprinklers. Structural independence does not apply

Comments:

- **Recommended: Positive change but requires coordination with current IDAPA building separation table.**

IRC Section R302.3 Modification to Two-Family Dwelling Separation:

2018 IRC Section R302.3 Modification to Two-Family Dwelling Separation. New reference to section 703.3 of the IBC provides alternatives for determining the fire-resistance rating of wall and floor/ceiling assemblies for separation of dwelling units. No code Modification between 2012 – 2015.

Comments:

- **Recommended: Positive change with more options for rated wall assembly.**

IRC Section R302.4.2 Membrane Penetrations:

2018 IRC Section R302.4.2 Membrane Penetrations. Modification. Exception for UL listed luminaires that have been test for the application are specifically permitted for fire-resistant-rated ceiling membrane penetrations. No code modifications in 2015 IRC.

Comments:

- **Recommended: Positive change with more options for rated lighting fixtures.**

Section R302.5 Dwelling-Garage Opening Protection:
2018 Modification. An automatic-closing device is now permitted as an alternate to a self-closing device for the door between the garage and dwelling. No code modifications in 2015 IRC.

Comments:

- **Recommended: Positive change with additional option for door closer.**

Section R302.10 Insulation Flame Spread:
- 2018 Code Modification: The testing of insulating materials for flame spread and smoke-developed ratings applies to facings including vapor retarders and other coverings. This clarifies the old language. No code modification in 2015 IRC.

Comments:

- **Recommended: Positive change gives clarification on placement of the vapor retarder and allows it to be intact with insulation and still meet ratings.**

Section R302.13 Fire Protection of Floors above Crawl Spaces:

2018 Modification: Fire resistant membrane protection is now required for the applicable floor framing materials above crawl spaces containing fuel-fired or electric-powered heating appliances. Includes use of 5/8" Gyp Bd. or structural panel.

2015 Clarification: Relocated section from Chapter 5. Clarifies that penetrations or openings that are not regulated.

Comments:

- **Amend out of 2018 Code Adoption.**

Sections R303.7, R303.8 Stairway Illumination Clarification:
2015 Clarification: Interior and exterior in separate sections. Interior to illuminate treads and landings. Exterior light source at top landing. Bottom landing accessing basement.

Comments:

- **Recommended: Positive change.**

R304.1 Minimum Habitable Room Area:
2015 Deletion: Deletes 120 square feet minimum room area.

Comments:
- **Recommended: Positive change by removing minimum standard.**
- **Recommend as amendment to the current Idaho Residential Code.**

R305 Ceiling Height:

2015 Modifications: 6 feet 8 inches minimum ceiling height for Bathrooms, Toilet rooms, and Laundry rooms. 6 feet 4 inch minimum ceiling height in all basements at Beams, Girders, Ducts, and Other obstructions.

Comments:

- **Recommended: Positive change by reducing required ceiling height.**
- **Recommend as amendment to the current Idaho Residential Code.**

Section R308.4.2 Glazing Adjacent to Doors:

2018 Modifications: Glazing within 24 inches of the hinge side of an in-swinging door now requires safety glazing where the glazing is at an angle less than 180 degrees from the plane of the door.

2015 Modifications: Glazing installed perpendicular to a door, < 24 inches from door, safety glazing if on hinge side of an in-swinging door.

Comments:

- **Recommended: Positive change adds clarification.**

IRC Section R308.4.4 Glazing in Guards and Railings:

2018 IRC Modification: Glazing in Guards and Railings. Unless laminated glass is used, structural glass baluster panels in guards now require an attached top rail or handrail. No code Modification between 2012 – 2015.

Comments:

- **Recommended: Positive change adds factor of safety for use on non-laminated glass.**

R308.4.5 Glazing and Wet Surfaces:

2015 modification: No safety glazing required when located ≥ 60 in. from edge of Shower, Sauna, Steam room, Bathtub, Hot tub, Spa, Whirlpool, Swimming pool.

Comments:

- **Recommended: Positive change.**

IRC Section R308.4.7 Glazing Adjacent to the Bottom Stair Landing:

2018 Landing Clarification: Figure R308.4.7 has been replaced with a new figure and modified caption to more accurately reflect the related code provisions.

2015 IRC Clarification: This change limits the requirement for glazing at the bottom of a landing by excluding windows greater than 180 degrees from the bottom face of the landing. (RB115)

Comments:

- **Recommended: Positive change.**

IRC Section R310.1 Emergence Escape and Rescue Openings:

2018 IRC Modification: Emergency escape and rescue openings are no longer required for bedrooms in basement when the dwelling unit is protected with an automatic fire sprinkler system and other conditions are met.

2015 Section R310 Clarification. Reorganization and separate section for windows and doors.

Comments:

- **Recommended: Positive change, more flexibility if fire sprinklered.**

IRC Section R310.3 Area Wells for Emergency Escape and Rescue Doors:

2018 IRC Modification: A change in terminology. No code change between in 2015 IRC.

Comments:

- **Recommended: Positive change, clarifies terminology.**

Sections R310.5, R310.6 Emergency Escape and Rescue Openings for Additions, Alterations and Repairs:

2015 IRC Modifications: No additional emergency escape and rescue openings required in a Basement addition with access to an emergency escape and rescue opening or remodeling of an existing basement unless new bedroom.

Comments:

- **Recommended: Positive change, clarifies requirements during remodel.**

IRC Section R311.7.1, R311.7.8 Handrail Projection:

2018 IRC Modification: A new exception to the handrail projection limitation provides for adequate clearance behind the handrail when it passes a projection of a floor, landing or tread return. 2015 No code modifications in 2015 IRC.

Comments:

- **Recommended: Positive change, clarifies handrail requirements.**

IRC Section R311.7.3 Maximum Stair Rise between Landings:

2018 IRC Modification: The maximum rise of a flight of stairs has increased by 4 inches, from 147 to 151 inches. 2015 Code Modification: Increase from 144 inches to 147 inches.

Comments:

- **Recommended: Positive change.**

IRC Section R311.7.5.3 Stair Nosing:
2018 IRC Modification: The revised text clarifies that stair nosings must be consistent throughout the stairway. No code modifications in 2015 IRC.

Comments:

- **Recommended: Positive change adds clarification.**

IRC Section R311.7.11, R311.7.12 Alternating Tread Devices and Ships Ladders:
2018 Code Modification: Alternating tread devices and ships ladders are now permitted as a means of egress for serving lofts and mezzanines that do not exceed 200 square feet in area.

2015 Code Modifications: Alternating tread devices and ship ladders have been added to the stair provisions. Neither device is approved for use as a means of egress.

Comments:

- **Recommended: Positive change for tiny houses and bonus rooms.**
- **Recommend as amendment to the current Idaho Residential Code.**

IRC Section R311.7.8.2

2018 IRC: Handrail Projection Change. Clarifies the projection of handrails into stairway to 4.5 inches, with a 6.5 inch projection width at landings, floors, and passing flights of stairs.

Comments:

- **Recommended**

IRC Section R311.7.8.3

2018 IRC change: Handrail clearance between handrail and wall set at 1.5 inces.

Comments:

- **Recommended**

IRC Section R311.7.8.4

2018 IRC change: Handrail continuity wording change to clarify the requirement.

Comments:

- **Recommended**

R311.8 Ramps:

2015 IRC Modification: Max. 1:8 slope for ramps that do not serve required egress door. Max. 1:12 for ramps serving required egress door.

Comments:

- **Recommended**

Section R312.1 Guards:

2018 Code Clarification. The guard requirements only apply to the specific portion of a walking surface that exceeds 30 inches above grade. No Code Modifications in 2015 IRC.

Comments:

- **Recommended, clarification, no change of standard.**

Section R314 Smoke Alarms:

2018 Code Modification: The exemptions for hard wired interconnection of alarms during alterations based on feasibility has been removed from the code and replaced with wireless option for interconnection.

2015 Code Modification: Battery-operated permitted for alterations, repairs, and additions. Addresses alarms installed near bathrooms and cooking appliances. Household fire alarm systems no longer require monitoring by an approved supervising station.

Comments:

- **Recommended.**
- Coordinate 2015 and 2018 revisions with earlier IDAPA amendments and with Fire and Electrical Codes.
- **Recommend as amendment to the current Idaho Residential Code.**

IRC Section R315 Carbon Monoxide Alarms:

2018 Code Modification: Interconnection is now required where multiple carbon monoxide alarms are required in a dwelling unit

2015 Code Modification: Connection to house wiring with battery backup. Exterior work no longer triggers CO alarm provisions for existing buildings. Attached garage only considered if communicating with dwelling. CO alarm in bedroom with fuel-fired appliance in the bedroom or adjoining bathroom. CO detection systems only require detectors in locations prescribed by the code (not NFPA 720). Carbon Monoxide alarms now required connection to the house wiring system with battery backup.

Comments:

- **Recommended.**
- There is an exemption in section 315.2.2 for wireless devices that sound all alarms.
- Coordinate section 315.3 to add IDAPA exemptions with Electrical Permit.
- **Recommend as amendment to the current Idaho Residential Code.**

IRC Section R316.4 Thermal Barrier:

2015 IRC Modification: This change adds 23/32 wood structural panels as an acceptable alternative for thermal barrier protection. (RB172)

Comments:

- **Recommended.**

Section R317.3 Fasteners in Treated Wood:

2018 Code Modification: Staples in preservative-treated wood and fire retardant-treated wood are now required to be made of stainless steel. OK, a good requirement. May increase costs however.

2015 No Code Modifications.

Comments:

- **Recommended.**
- **Now that staples are allowed the stainless finish type of staple will be more costly.**

Section R322.3 Coastal High-Hazard Flood Zones:
2018 Code Modification: In high-hazard areas the IRC now provides specific guidance for the design and construction of concrete slabs, stairs, guards, decks and porches to reduce damage to the dwelling in a flood event.

2015 Code Modification: Coastal A Zones are defined and an exception for foundation types in Coastal A Zones is added.

Comments:

- **Not Applicable.**

Section R324.4 Rooftop-Mounted Photovoltaic Systems:
2018 Code Modification. Structural requirements for rooftop-mounted Photovoltaic panel systems have been revised and consolidated in Section R324.4. No code modifications in 2015 IRC.

Comments:

- **Recommended to ensure that the dead load of the panels will not reduce the safety factor of an existing or new truss system.**
- **Amend to require structural calculations for existing hand stacked rafters that do not meet current rafter span tables.**

Section R324.6 Roof Access for Photovoltaic Solar Energy Systems:

- 2018 Code Addition: Requirements for roof access and pathways for firefighters have been introduced into the IRC provisions for rooftop-mounted photovoltaic solar energy systems. 2015 No Code Modifications.

Comments:

- **Recommended. This brings in the requirement from the International Fire Code which already applied to residential construction.**
- **Recommend as amendment to the current Idaho Residential Code.**

Section R324.6.2.2 Solar Panels near Emergency Escape and Rescue Openings:
2018 Code Modification: Panels are not permitted to be installed directly below emergency escape and rescue openings. 2015 No Code Modifications.

Comments:

- **Recommended. This brings in the requirement from the International Fire Code which already applied to residential construction.**

Section R325.3 Mezzanine Area Limitation:

2018 Code Modification: Increase from one-third to one-half of the area of the room containing the mezzanine under certain conditions. 2015 No Code Modifications.

Comments:

- **Recommended. More flexibility, allows larger mezzanine areas.**

Sections R325.6, R202 Habitable Attics:

2018 Code Addition: The definition of habitable attic has been revised and the technical requirements have been placed in a new section R325.6. 2015 No Code Modifications.

Comments:

- **Recommended. Clarifies the requirements of a habitable attic.**

Chapter 4 and 5:

R403.1.1 Minimum Footing Size:

2015 Code Modifications: Expanded tables. Includes Type of structure, Light frame, Veneer, Concrete, Slab on grade, Crawl space, and Basement.

Comments:

- **The table adds more choices for building situations.**
- **Could result in larger footing sizes; however this may be ok if larger footings are necessary on larger buildings.**
- **Do we need to keep the 2012 IRC Table?**
- **Need vetting with structural engineer.**

R403.1.6 Foundation Anchorage

2015 Code Modification: Anchor bolts are now required to be placed in the middle third of the sill plate.

Comments:

- **Recommended. Clarifies the requirements, a good change.**

Table 403.3 (1) Frost Protected Footings:

2018 IRC Modification. Clarified the insulation requirements for shallow foundations. 2015 No Code Modifications.

Comments:

- **Rarely used in Idaho.**
- **Recommended.**

Table 403.4. Crushed Stone footings:

2018 Code Modification: Added Note b and c and Clarified the requirements to compact crushed stone footings, and defined soil classification per Table 404.5.1.

2015 Code Modification: Note added allowing linear interpolation of stone depth for calculating stone footing depth.

Comments:

- **Rarely used.**
- **Recommended.**

Section 408.3. Unvented Crawl Spaces:

2018 Code Modification: Ventilation of the under-floorspace is not required when and adequately sized dehumidifier is provided. 2015, No Code Modifications.

Comments:

- **Recommended. Gives an alternate means of removing humidity and moisture from unvented crawl space.**

Tables R502.3.1(1), R502.3.1(2) Floor Joist Spans for Common Lumber Species:

2015 Code Modifications: Span lengths decreased for Southern Pine and Increased for DFL and HF.

Comments:

- **Recommended.**

Table 505.3.2. Steel Joist Spans:

2018 Code Modification: Steel stud joist span length modifications.

2015 Code Modification: Note "e" added, title changed, and table simplified.

Comments:

- **Recommended. Rarely used.**

Section 507 Decks:

2018 Code Modification: Reorganization of this section and additional provisions for prescriptive construction of decks is provided.

2015 Code Modification: New Section in 2012, renamed to Exterior Decks in 2015.

Comments:

- **Recommended. Positive change with more clarification.**

Section 507.2 Deck Material:

2018 Code Modification: Section 507.2 and sub sections reorganized. Added the following sections: 507.2.1. Wood materials; 507.2.1.1 Engineered wood products; 507.2.3 Fasteners and connectors; 507.2.4 Flashing; 507.2.5 Alternated Materials; and Table 507.2.3. The following sections have been designated with new section numbers: 507.2.2 Plastic Composite Deck Stairs Guards Handrails, 507.2.2.1 Labeling, 507.2.2.2 Flame Spread Index, 507.2.2.3 Decay resistant, 507.2.2.4 Termite Resistant, 507.2.2.5 Installation of Plastic Composites.

2015 Code Modification: Section 507.2 Deck Ledger Connection to Band Joist modified. 507.2.1 Placement of Lad screws deleted. 507.2.1 Ledger Details added. 507.2.2 Alternate Deck Ledger Connections deleted. 507.2.2 Band Joist Details Added. 507.2.3 Ledger to Band Joist Fastener Detail added. Table 5-7.2 Modified.

Comments:

- **Recommended. Positive change with more clarification.**
- **Are 3x epoxy coated fasteners for plastic wood products compatible for treated lumber.**

R507.2.4 Alternative Deck Lateral Load Connection:
2015 Code Modification: Optional Connections 1) shown in Figure 507.2.3(1): Include two hold-down devices ≤ 2 ft. of the ends of the deck. 2)Shown in Figure 507.2.3(1): Includes four hold-downs installed below the deck structure.

Comments:

- **Recommended. Positive change with more options.**

Section 507.3 Deck Footings:

2018 Code Addition. This section defines the size and depth of deck footings, with exceptions. This new section also references new Table 507.3.1, Minimum Footing Size for Decks.

2015 Code Modification: New section 507.3 Wood/Plastic Composites found in a new section in 2015.

Comments:

- **Recommended. Positive change with more clarification and information.**

Section 507.4 Deck Posts:

2018 IRC Modification: Section re-designed to add non-engineered prescriptive method. 507.4 Deck Posts.

Comments:
- **Recommended. Positive with more flexibility.**

Section 507.5 Deck Beams:

2018 Code Modification: Section 507.5 Deck Beams has been modified. Section 507.7 was renumbered 507.5.1, modified, and renamed Deck Beam Bearing. Section 507.7.1 re designated 507.5.2, modified and renamed Deck Beam Connection to Supports. Table 507.6 re-designated 507.5 Deck Beam Span Lengths, and modified.

2015 Code Addition: The following are New Sections in the 2015 IRC: 507.5 Deck Joists; 507.1 Lateral Restraints at Supports; 507.6 Deck Beams; 507.7 Deck Joist and Deck Beam Bearing; 507.7.7.1 Deck Post to Deck Beam. The following are New Tables in the 2015 IRC: T507.5 Deck Joist Spans; T507.6 Deck Beam Span Lengths.
Comments:
- **Recommended. Positive change with more clarification and information.**

Section 507.6 Deck Joists:

2018 IRC Modification: 507.5 re-designated 507.6 Deck Joists, and modified. 507.7 re- designated 507.6.1, renamed Deck Joist and modified. Table 507.5 re-designated 507.6 Deck Joist Spans, and reorganized.

Comments:

- **Recommended. Positive change with more clarification and information. Easier to read.**

Section 507.7 Decking:

2018 Modification: Section 507.7 Decking was modified.

2015 IRC Modification: Deck Joist and Deck Beam Bearing new section in the 2015.

Comments:

- **Recommended. Positive change with more clarification and information. Easier to read.**

Section 507.8 Vertical and lateral supports:

2018 IRC Modification. Section 507.1 Decks, renamed 507.8 Vertical and Lateral Supports.

2015 IRC Addition. This code section and its sub sections were new to the 2015 code. Table 507.8 Deck Posts prescribes minimum sizes of wood posts supporting wood decks.

Comments:

- **Recommended. Positive change with more clarification and information. Easier to read.**

Section 507.9 Vertical and Lateral Supports at Band Joist:

2018 IRC New Sections. The following subsections of this section are new: 507.9.1 Vertical Supports; 507.9.1.4 Alternate Ledger Details. The following Sections have been re-designated: 507.2.1 has been re-designated to 507.9.1.1 Ledger Details; 507.2.2 has been re-designated 507.9.1.2 Band Joist Details; 507.2.3 has been re-designated 507.9.1.3 Ledger to Band Joist Details; 507.2.4 has been re-designated 507.9.2 and has been modified and renamed Lateral Connection. 2015 No Code Modifications.

Comments:

- **Recommended. Positive change with more clarification and information.**

IRC Table 507.9.1.3.1:

2018 Table 507.9.1.3.1. Table 507.2 re-designated to this new Table. No change in values.

2015 IRC: Added Table 507.2.; this is a new table to the 2015 Code.

Comments:

- **Recommended. Positive change with more clarification and information.**

IRC Table 507.9.1.3.2:

2018 IRC Table re-designated and Table 507.2.1 incorporated to this new Table.

2015 IRC Code Modification: No Change.

Comments:

- **Recommended. Positive change with more clarification and information.**

Table R602.3(1) Fastening Schedule:

2015 Code Revision: Table R602.3 revised to give nail size options.

Comments:

- **Recommended. Positive change with more options.**

Table R602.3(6) Alternate Stud Height:

2015 Code Modification: Table R602.3 (6) added to provide data for stud heights above 10'. revised to give nail size options.

Comments:

- **Recommended. Positive change with clarification.**

Tables R602.7 (1) and R602.7 (2) Girder and Header Spans:

2018 IRC Modification: Header table has been redesigned to update from No. 1 Southern pine to No. 2 southern Pine; keynotes added; and further reduction in span is taken for 2 x 8 and larger headers. OK, Southern Pine isn't used here.

2015 IRC Modification: Combined tables in Ch. 6 to include Multi-ply and single headers and Rim board headers. New open porch header table. New table for full-height studs at each end of header.
Comments: Recommended. Positive change with clarification.

Table R602.7 (5) Lateral Support for Headers:

2018 IRC Modification: Revised table to increase king studs in high wind areas and decrease number of king studs in wind areas below 115 mph.

Comments:

- **Recommended. Positive change with clarification.**
- **Positive, this is a major reduction in king studs from 2012 and 2015 IRC.**

Table R602.10.3(4) Seismic Adjustment Factors:

2018 IRC Modification: Revised table to clarify loads and revision of bracing methods.

Comments:

- **Recommended. Positive change with clarification.**
- **Positive change, allows brick veneer in second story with WSP or CS-WSP methods**

R602.10.4.1 Mixed Bracing Methods:

2018 IRC Modification: Allows mixing of bracing methods.

Comments:

- **Recommended. Positive change with more options.**

Table R602.10.5 Contributing Length of Method CS-PF Braced Wall Panels:

2015 Added Table: R602.10.5 Contributing Length of Method CS-PF Braced Wall Panels.

Comments:

- **Recommended. Positive change with more clarification.**

R602.10.6.2 Method PFH Portal Frame with Hold-Downs:

2015 Portal Frame with Hold-Downs added: Per recent testing: Minimum hold-down capacity lowered to 3500 lbs and two sill plates are sufficient (3 were required in 2012 IRC).

Comments:

- **Recommended. Positive change.**

R602.10.6.4 Method CS-PF – Continuously Sheathed Portal Frame:

2018 IRC Modification: Modified sheathing requirements of continuously sheathed portal frame.

Comments:

- **Recommended. Clarifies that you must have additional sheathing beyond post at portal frame.**

R602.10.6.5 Method BV-WSP:

2018 Modification: Clarification of Method BV-WSP bracing method.

Comments:

- **Recommended. Clarifies bracing method.**

R602.12 Simplified Wall Bracing:

2015 Modification: 3-story buildings (previously 2); Wind Exposure B and C. Wind speed (Vult) 130 mph.

Comments:

- **Recommended. Adds design flexibility.**

Tables R603.3.1 and R603.1.1(2) Cold Formed Steel Wall Construction:

2018 IRC Modification: Connections tables are modified for wind speeds less than 140 mph. matching AISI S230.

Comments:

- **Recommended. Adds clarification.**

Section R610 Structural Insulated Panels:

2018 Modification: Section on Structural Insulated Panels has been reorganized.

Comments:

- **Recommended. Adds clarification.**

Section R703.2 Water Resistive Barrier:

2018 IRC Modification: Water resistive barriers other than #15 felt must be installed per manufacturer's installation instructions.

Comments:

- **Recommended. Adds clarification.**

Section R703.3.1 Soffit Installation:

2018 IRC Modification: Requirements for wood structural panel soffits are added and vinyl soffit requirements clarified.

Comments:

- **Recommended. Adds clarification and flexibility.**

Section R703.8.4 Veneer Anchorage Through Insulation:

2018 IRC Modification: Masonry veneer is explicitly allowed to attach through insulation into underlying structural panel. Attachment must follow Table 703.8.4(2)

Comments:

- **Recommended. Adds clarification and flexibility.**

Table R703.8.4 (1) Airspace Requirements:

2018 IRC Modification: New keynote c allows drainage air space to contain some mortar spills.

Comments:

- **Recommended. Adds clarification and flexibility.**

Section R802 Roof Framing:

2018 IRC Modification: Design and construction of roof framing has been clarified and re organized.

Comments:

- **Recommended. Adds clarification.**

Section R802.1.5.4 Labeling:

2018 IRC Modification: Label requirements added for fire retardant treated (FRT) lumber.

Comments:

- **Recommended. Adds clarification.**

Section R806.2 Minimum Vent Area:

2018 IRC Modification: Minimum Vent Area exception is clarified.

Comments:

- **Recommended. Adds clarification.**

Section R806.5 Unvented Attics:

2018 IRC Modification: Minimum Vent Area exception is clarified.

Comments:

- **Recommended. Adds clarification.**

Tables R905.1.1(1) and R905.1.1(2) Underlayment Requirements for Photovoltaic Shingles:

2018 IRC Modification: Underlayment requirements for Photovoltaic Shingles are revised and moved to tables R905.1.1(1) and R905.1.1(2).

Comments:

- **Recommended. Adds clarification.**

Section R905.17 Building Integrated Photovoltaic Panels:

2018 IRC Addition: New section added to address installation and attachment for Building Integrated Photovoltaic Panels.

Comments:

- **Recommended. Adds clarification.**

Section R1005.8 Chimney Insulation Shield:

2018 IRC Addition: Added insulation shield for factory built chimneys.

Comments:

- **Recommended. Added fire protection.**
- **Added cost.**

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Remove Chapter 11 from discussion:

N1101.14 Permanent Energy Certificate:

- 2015 Code Modification: The code now requires the permanent energy certificate to be placed on a wall in proximity to the furnace, in a utility room, or in another approved location inside the building. Positive

N1102.1.3 R- Value Computation:

- Insulated Siding N1102.1.3 R-Value Computation—Insulated Siding Change Type: Modification: The code now allows insulated siding to be used in the calculation for satisfying the wall insulation R-value. The labeled R-value for the siding must be reduced by R-0.6 for calculation purposes.

N1102.2.4 Access Hatches and Doors:

- Vertical doors that access unconditioned attics and crawl spaces do not require an R-value to match the required wall insulation. Such doors must comply with the fenestration U-factor requirements of Table N1102.1.2. OK

Refer Chapters 12-24 to Mech Board:

M1502.4.4, M1502.4.5 Dryer Exhaust Duct Power Ventilators:

- Code Addition: The code now recognizes the use of dryer exhaust duct power ventilators (DEDPVs) to increase the allowable exhaust duct length for clothes dryers. Positive addition

M2301 Solar Thermal Energy System.

- Recommend adoption by mechanical board.

G2404.11 Condensate Pumps Change Type:

- Code Addition: Condensate pumps located in uninhabitable spaces must be connected to the appliance to shut down the equipment in the event of pump failure. A good change
-

G2426.7.1 Door Clearance to Vent Terminals:

- An appliance vent terminal is not permitted in a location within 12 inches of the arc of a swinging door. A good change

Association of Idaho Cities
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Summary: How Idaho Residential Code Adoption May Impact National Flood Insurance Program Participation and Community Insurance Rates or FEMA Disaster Funding
October 4, 2018

AIC Contact: Johanna Bell & Nancy Stricklin
IDWR Contact: Maureen O'Shea

National Flood Insurance Program Participation

- local governments must adopt an ordinance that is consistent with the FEMA-approved statewide template
- the 2012 IRC R322 matches the current NFIP regulations (currently in place for Idaho)
- the IBC Appendix G has all the flood codes that match the NFIP (currently in place for Idaho)
- NFIP 2015 I-Codes and ASCE 24 Checklist (2016): https://www.fema.gov/media-library/assets/documents/100537

Code Adoption Cycle - Flood Insurance Rates

- 19 Idaho local jurisdictions participate in a flood prevention "community rating system," administered by the Idaho Insurance Services Office
- the degree of impact to a community's insurance rates (for both the entity and residents) are dependent upon the number of years it has been since IRC or IBC has been adopted by Idaho, coupled with the insurance renewal/assessment schedule - typically once every 5 years
- the relevant codes and appendixes are in place as of now; however, a 6- to 10-year code adoption cycle may create NFIP issues in the future

FEMA Disaster Funding

- the State Hazard Mitigation Plan, & the local Hazard Mitigation Plans are what must be updated for disaster relief funding requirements (i.e., does not seem to be related to code adoption, according to Maureen)
- the SHMP is required to be updated every 3 years, the most recent published SHMP is from 2013
- the site indicates that the next update is under development:
- https://ioem.idaho.gov/Pages/Plans/Mitigation/SHMP.aspx
- chapter on flooding: https://ioem.idaho.gov/Pages/Plans/Mitigation/Documents/plan/State%20of%20Idaho%20Hazard%20Mitigation%20Plan%202013_Chapter%203.3.pdf

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Local Government Building Code Adoption Review:
2012 International Residential Building Code Appendixes
October 16, 2018

AIC Contact: Johanna Bell & Nancy Stricklin

Summary:

- It is important to look at the plain language of the statutes and read Idaho Code (I.C.) 39-4109 and 39-4116 together. I.C. 39-4109 establish which parts of the International Residential Code are to be adopted, and leaves it up to the Idaho building code board to determine which version of the IRC is adopted.
- Part IX includes the Appendixes of the International Residential Code.[1]
- The Idaho building code board adopted the 2012 IRC, therefore Part IX of the 2012 IRC (which contains the Appendixes) should have been included in the "2017 Idaho Residential Code" published by the International Code Council (ICC).
- The Idaho Legislature has authorized local jurisdictions to adopt and amend Part IX. That is, local jurisdictions can include the Appendices included in the 2012 IRC in their ordinance and can also make amendments to those Appendices. It is not prohibited by HB547 and the current statutes.
- DBS intends to ensure the International Code Council include Part IX when they publish the 2018 Idaho Residential Code.
- The 2017 Idaho Residential Energy Conservation Code has not been revised, and will not need to be re-published in 2018.

Background

Idaho Code 39-4109 (a) establishes that the 2006 International Building Code will be in effect until such time as a subsequent version is adopted by the Idaho building code board and includes any amendments made by the board. It goes further to state that the code shall include appendices pertaining to building accessibility; excludes the incorporated electrical codes, mechanical code, fuel gas code, plumbing codes and fire codes or property maintenance codes; and includes the incorporated Idaho Residential Code, parts I, II, III and IX (Part IX contains the appendices).

Idaho Code 39-4109(b) provides that the version of the International Residential Code adopted by the Idaho building code board, together with amendments, revisions or modifications, except for parts IV, V, VI, VII and VIII shall collectively constitute the ***Idaho Residential Code***. Part IX of the International Residential Code contains the appendices. Since the Legislature by statute did not exempt the International Residential Code Part IX, it is part of the 2017 Idaho Residential Code. Further,

[1] https://codes.iccsafe.org/public/document/IRC2018, accessed 10/3/2018.

consistent with this interpretation, the legislature, in HB 547, expressly authorized local jurisdictions to amend Part IX.

Although ICC inadvertently failed to include Part IX in the ***published*** 2017 Idaho Residential Code, this omission does not void the statute that includes the 2012 Appendixes previously adopted. Idaho Code 39-4116 authorizes local jurisdictions to amend Part IX of the Idaho Residential Code, including the Appendixes in place in 2012. It is important to look at the plain language of the statute and read both code sections together. DBS will ask ICC to correct that error when they draft the next version of the Idaho Residential Code.

In 2017 the Idaho building code board adopted the 2015 IBC with some amendments. None of those amendments eliminated Part IX.

In 2012 the Idaho building code board adopted the 2012 IRC with amendments. None of those amendments eliminated Part IX that was included by the Legislature.

Conclusion

The Idaho Building Code Board has not modified Part IX or eliminated it; therefore, the Part IX Appendixes listed in the 2012 IRC are available for adoption by local jurisdictions. Part IX of the IRC consists of Appendices A-Q. An additional appendix was adopted by the building code board and available for statewide implementation was The Tiny Homes appendix, Appendix Q. By adding an additional appendix, it is clear that the Board's intent was to add to Part IX and not delete it.

Although Part IX is still part of the provisions required by I.C. 39-4109, it is important to remember that appendices are typically guidelines. Section 102.5 of the 2012 IRC adopted by the Board states that provisions in the appendices do not apply unless they are specifically referenced in the adopting ordinance by the local jurisdiction. Local jurisdictions can include the appendices in their ordinance and can also make amendments to those appendices. It is not prohibited by HB547.

Patrick Sullivan, Director of Building Safety and Facilities
City of Nampa

Of the 91 attached changes between the 2018 and the current 2012 IRC adopted by the State, there are 5 items that are not recommended unless they are amended and one item that can be adopted without my note.

These include:

Section R302.13;

Section R301.7.1.2;

Section R311.7.5.3;

Sections 314 and 315 require coordination with current IDAPA language;

Section 324 - ignore my note and approve as is.

403.1.1

The Energy Code items in the 2018 IRC will need to be reconciled with the 21018 IECC Residential provisions.

The HVAC Chapters 12-24 will need to be referred to the HVAC Mechanical Board for inclusion in the Mechanical Code. These items can be found on the last page of the comparison document that I sent you.

- Consolidated the information
More clear

* 322.2.1 NEEDS TO BE AMENDED OUT PER ALLEN JENSEN PER FLOOD PLAIN.

IDAHO BUILDING CODE BOARD

Agenda Item No. 03 **Program Manager Report**

PRESENTER: Jeff Egan, Building Program Manager

OBJECTIVE: Provide the Board with an overview of the Program's current activities.

ACTION: Informational

BACKGROUND: This topic is addressed at all regularly scheduled Idaho Building Code Board meetings.

PROCEDURAL HISTORY:

ATTACHMENTS: No Documentation

IDAHO BUILDING CODE BOARD

Agenda Item No. 04 **Administrator Report**

PRESENTER: Chris L. Jensen, Administrator

OBJECTIVE: Provide the Board with an overview of the Division's current activities.

ACTION: Informational

BACKGROUND: This topic is addressed at all regularly scheduled Idaho Building Code Board meetings.

PROCEDURAL HISTORY:

ATTACHMENTS: No Documentation

IDAHO BUILDING CODE BOARD

Agenda Item No. 04a **Financial Report**

PRESENTER: Chris L. Jensen, Administrator

OBJECTIVE: Review the Idaho Building Code Board's financial report.

ACTION: Informational

BACKGROUND: This topic is addressed at all regularly scheduled Idaho Building Code Board meetings.

PROCEDURAL HISTORY:

ATTACHMENTS: Financial Report

Division of Building Safety

IDAHO BUILDING CODE FUND 0229-02
Fiscal Year 2019 Financial Statements
As of 01/31/2019

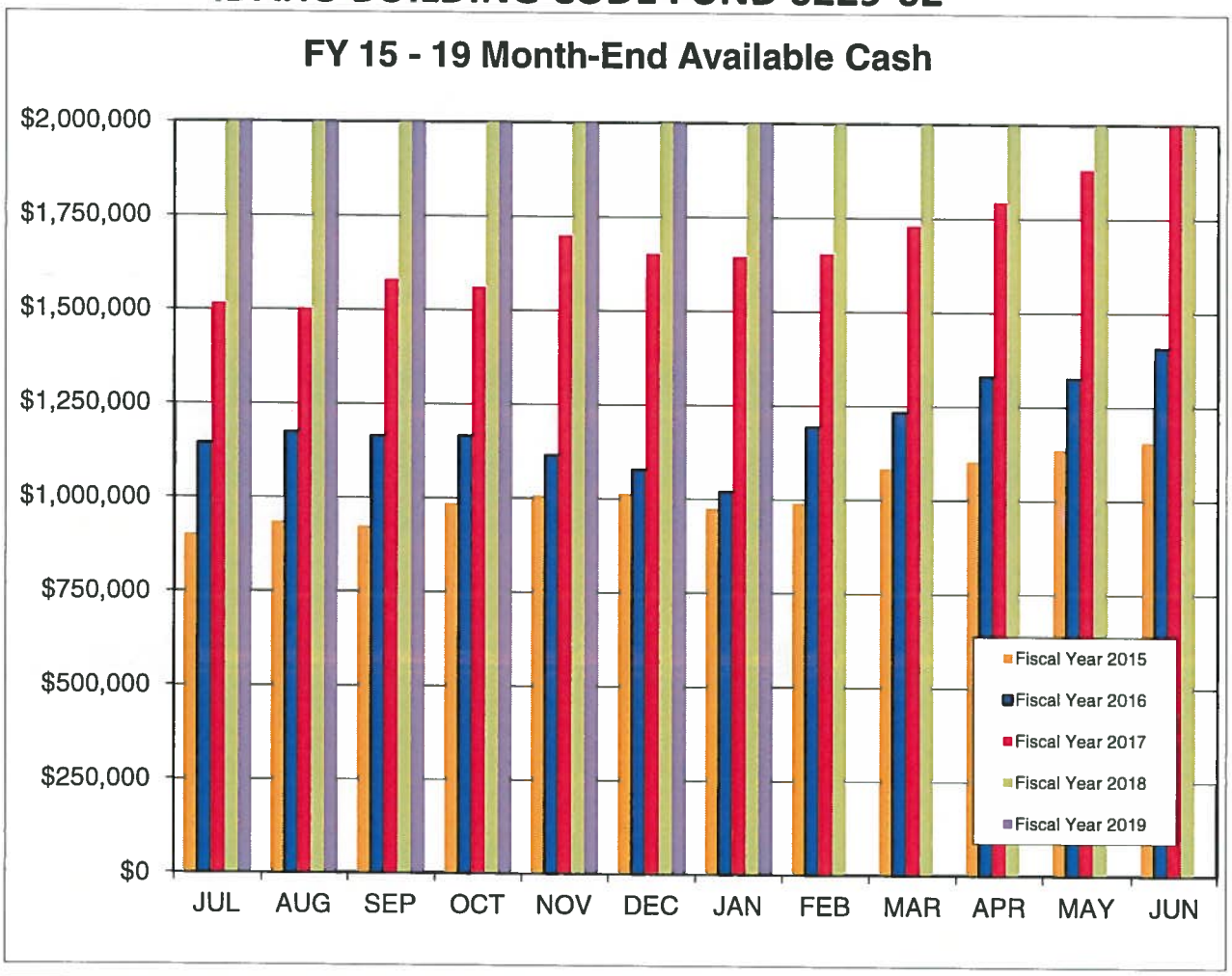
Statement of Revenues and Expenditures

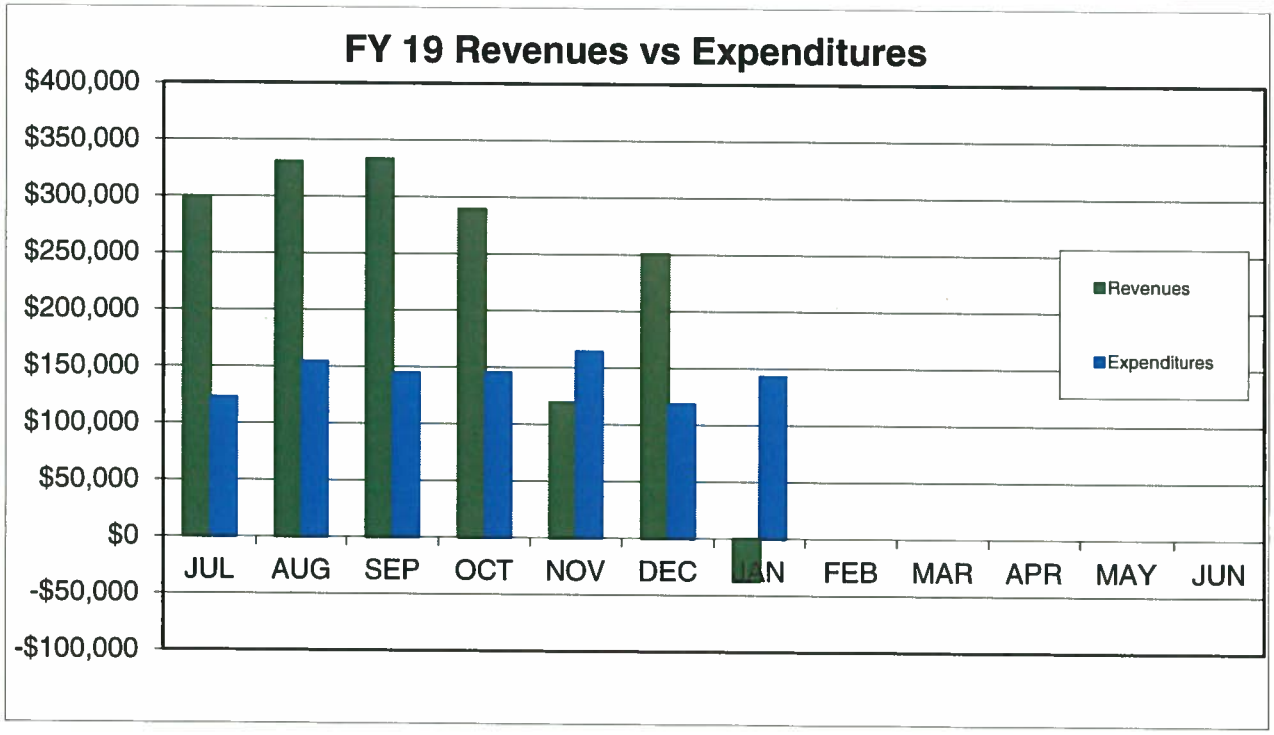
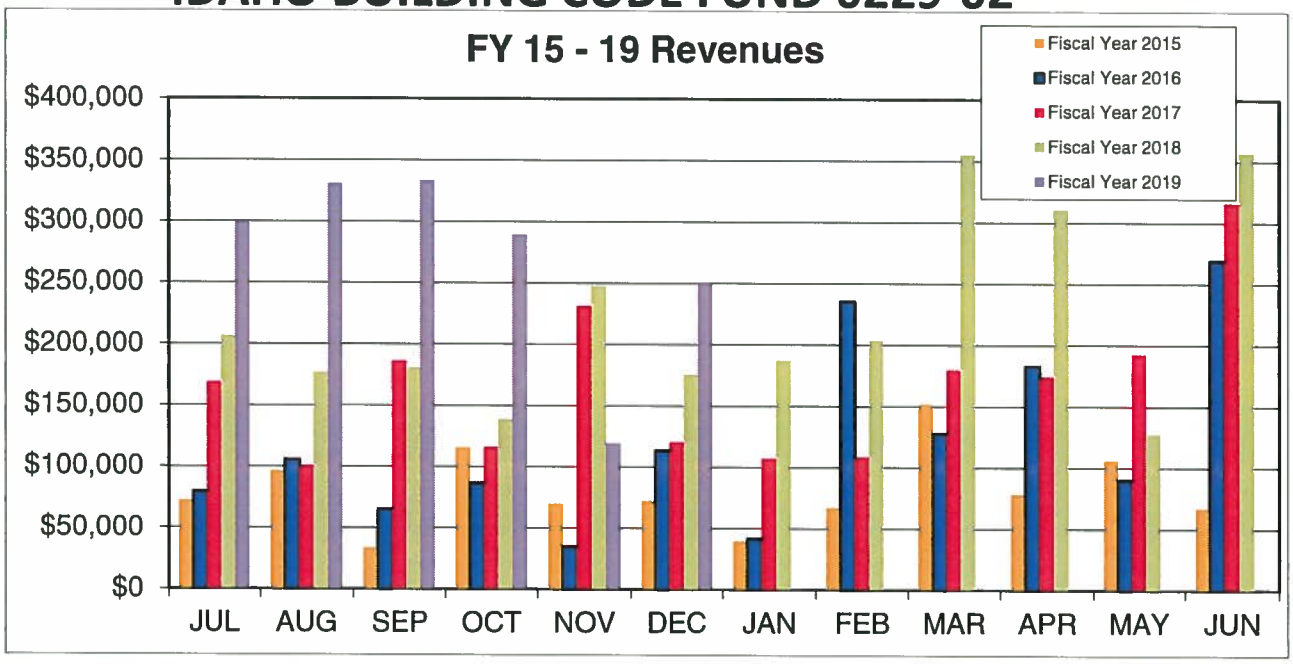
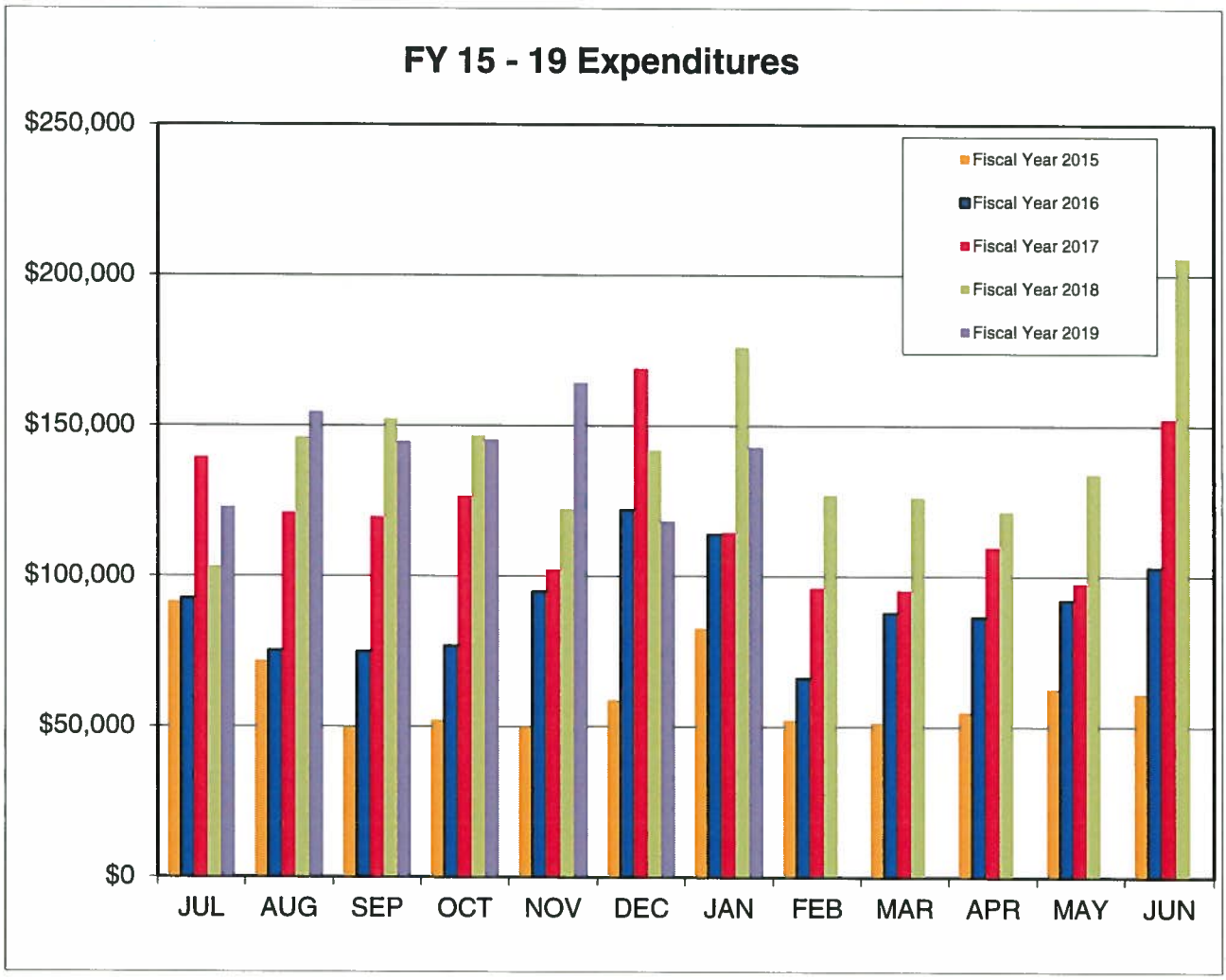
Class	Budget	Fiscal Year To Date	YTD as a % of Budget	Remaining Budget	Projected for Remainder of Year	Projected Year End Totals	Projected Total as a % of Budget
Revenues:	1,855,797	1,584,267	85.4%	271,531	1,604,746	3,189,013	171.8%
Expenditures							
Personnel:	1,398,900	819,500	58.6%	579,400	600,966	1,420,466	101.5%
Operating:	300,100	162,912	54.3%	137,188	90,733	253,645	84.5%
Capital:	156,797	9,990	6.4%	146,807	146,807	156,797	100.0%
Total Expenditures	1,855,797	992,402	53.5%	863,395	838,506	1,830,908	98.7%
Net for FY 2019	-	591,865			766,240	1,358,104	

Statement of Cash Balance

July 1, 2018 Beginning Cash Available	Fiscal Year to Date Revenues	Fiscal Year to Date Expenditures and Encumbrances	Other Changes in Cash	Available Cash as of January 31, 2019	Projected Change in Cash for Remainder of Year	Projected Year End Available Cash
2,957,999	1,584,267	(992,402)	28,322	3,578,185	766,240	4,344,425

IDAHO BUILDING CODE FUND 0229-02

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