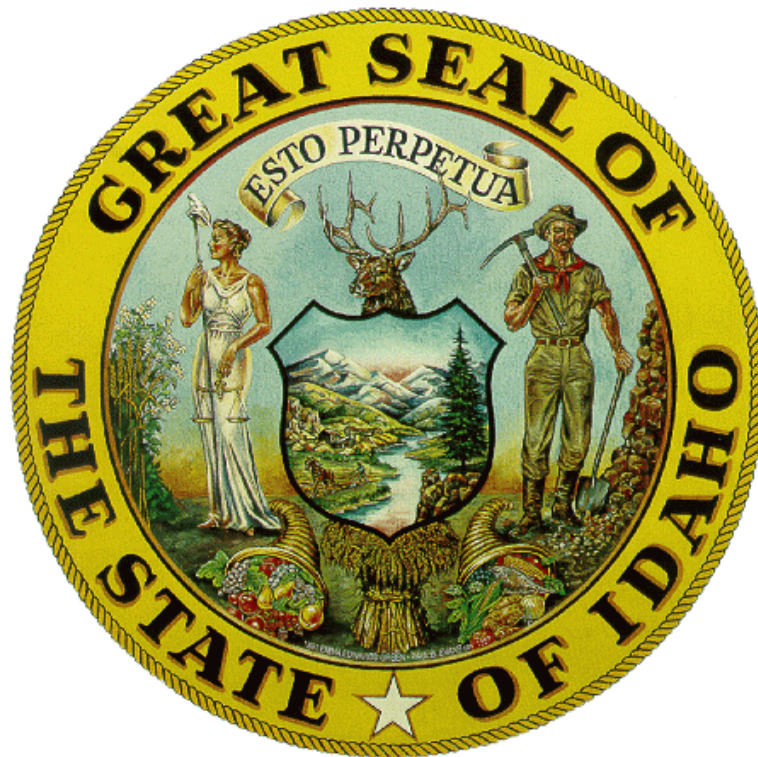


DIVISION OF BUILDING SAFETY

IDAHO BUILDING CODE BOARD  
VIDEOCONFERENCE MEETING

APRIL 14, 2015



# IDAHO BUILDING CODE BOARD

## Agenda Item No. 01

## Agenda

**PRESENTER:** Andrew Bick, Chairman

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**OBJECTIVE:** Approve agenda for the April 14, 2015 Idaho Building Code Board meeting.

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**ACTION:** Consent

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**BACKGROUND:**

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**PROCEDURAL  
HISTORY:**

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**ATTACHMENTS:** Tentative Agenda

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## **TENTATIVE AGENDA**

### **NOTICE OF PUBLIC MEETING/PUBLIC HEARING**

#### **IDAHO BUILDING CODE BOARD VIDEOCONFERENCE MEETING**

**Division of Building Safety  
1090 E. Watertower St., Ste. 150, Meridian  
1250 Ironwood Dr., Ste. 220, Coeur d'Alene  
2055 Garrett Wy., Bldg. 1, Ste. 4, Pocatello  
1118 F St., Lewiston (DEQ)  
650 Addison Ave. W., Ste. 102, Twin Falls (DVR)  
900 N. Skyline, Suite B, Idaho Falls (DEQ)**

**dbs.idaho.gov – (208) 332-7137**

***Tuesday, April 14, 2015  
9:30 a.m.–12:30 p.m. (MT)***

*(Note: North Idaho - Meeting Commences @ 8:30 a.m. PT)*

- 
- 9:30 a.m.**     **CALL TO ORDER** – Andrew Bick, Chairman
- Roll Call & Introductions
  - Open Forum
- CONSENT AGENDA**
1. Approval of the April 14, 2015 Agenda
  2. Approval of the February 24, 2015 Board Meeting Minutes
- PUBLIC HEARING**
3. Negotiated Rulemaking (Review proposed amendments to the current building and energy codes.) – Andrew Bick
- INFORMATIONAL AGENDA**
4. Legislative Update – Steve Keys
  5. Program Manager Report – Arlan Smith
  6. Operational Report – Steve Keys
  7. Administrator Report – C. Kelly Pearce
    - a. Financial Report – Fred Sisneros
- 12:30 p.m.**     **ADJOURN**

# IDAHO BUILDING CODE BOARD

## Agenda Item No. 02

## Minutes

**PRESENTER:** Andrew Bick, Chairman

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**OBJECTIVE:** Approve minutes from the February 24, 2015 Idaho Building Code Board meeting.

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**ACTION:** Consent

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**BACKGROUND:**

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**PROCEDURAL  
HISTORY:**

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**ATTACHMENTS:** Draft Minutes

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**IDAHO BUILDING CODE BOARD  
VIDEOCONFERENCE MEETING**

**Tuesday – February 24, 2015 – 9:30 a.m. (MT)**

**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 FEBRUARY 24, 2015 MEETING**

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

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

**Board Members Present:**

Andrew Bick, Chairman  
Jason Blais  
Scott Buck  
Mike Tracy  
Jan Welch, P.E.  
Chuck Bleth  
Dan Hunter  
Dennis Schaffner

**Board Members Absent:**

Michael Arrington  
Travis Beck

**DBS Staff Members Present:**

C. Kelly Pearce, Administrator  
Steve Keys, Deputy Administrator-Operations  
Ron Whitney, Deputy Administrator-Administration  
Patrick Grace, Deputy Attorney General  
Fred Sisneros, Financial Manager  
Arlan Smith, Program Manager  
Bill Hatch, Public Information Officer  
Terry Blessing, Regional Manager, Region 1  
Chris Jensen, Regional Manager, Region 3  
Adam Bowcutt, Regional Supervisor, Region 3  
Renee Bryant, Administrative Assistant 2/Board Secretary

◆ **Introduction**

Fred Sisneros was introduced as the Division's newly appointed Fiscal Manager.

◆ **Open Forum**

Uniform Mechanical Code (UMC) vs. International Mechanical Code (IMC) – Board Member Hunter provided a handout, originally presented at the February 2015 HVAC Board meeting, of potential modifications to Title 54 *Professions, Vocations, and Businesses*, Chapter 50 *Installation of Heating, Ventilation and Air Conditioning Systems*.

The items of concern are: 1) Change the language from the 2003 to the 2012 edition of the IMC, International Fuel Gas Code (IFGC) and parts V and VI only of the International Residential Code (IRC), published by the International Code Council (ICC), OR change the name of the International Mechanical Code to the Idaho Mechanical Code, 2) Delete the verbiage "The 2003 IFGC, and parts V and VI of the 2003 IRC", and 3) Change to the UMC, published by the International Association of Plumbing and Mechanical Officials (IAPMO).

As explained by the Deputy Administrator-Operations, a draft proposal was provided at the February 2015 HVAC Board meeting in an attempt to address everything relative as expressed by the HVAC Board and/or legislators.

It was suggested, and DBS offered, to address the Building Code Board's concerns with the HVAC Board.

**ACTION:** At the May HVAC Board meeting, the Division will address the Building Code Board's concerns with regard to proposed changes to Title 54 Professions, Vocations, and Businesses, Chapter 50 Installation of Heating, Ventilation and Air Conditioning Systems.

International Code Council (ICC) – Kraig Stevenson, ICC Representative, provided brochures on ICC's new cloud-based system, cdpACCESS, for the code development process (cdp).

One minor change in the cdpACCESS pamphlet is on page 13. The second sentence in section 3.3.5.6 "Cost Impact" should read, "The proponent shall submit information ..." rather than "The proponent should submit information..."

DBS is authorized 12 delegates to vote on ICC's online code process and final action hearings. To vote, the Division will need to update its new delegates with ICC no later than March 20th.

Also distributed was information on ICC's current code development cycle and public access to ICC's legacy codes and 2015 codes.

◆ **Approval of the February 24, 2015 Agenda**

**MOTION:** Mike Tracy made a motion to approve the agenda as presented. Dan Hunter seconded. All in favor, motion carried.

◆ **Approval of the October 21, 2014 Board Meeting Minutes**

**MOTION:** Scott Buck made a motion to approve the minutes as written. Jan Welch seconded. All in favor, motion carried.

◆ **Board Meeting Dates**

Idaho Code 39-4109(5) states in part: "...the board shall conduct a minimum of two (2) public hearings, not less than sixty (60) days apart." To be in compliance, the Board agreed to move the April meeting from the 28th to the 14th.

**MOTION:** Jan Welch made a motion to change the April Board meeting from the 28th to the 14th. Jason Blais seconded. All in favor, motion carried.

**ACTION:** The Division's website and board calendar will be changed to reflect the new meeting date.

◆ **IECC 2012**

Rod Stucker, Passive House Design - Zero Net Energy Homes, requested the topic *IECC 2012* be placed on the agenda as an informational item. Mr. Stucker was not in attendance at this meeting; therefore, the topic was not addressed.

◆ **Negotiated Rulemaking**

Negotiated rulemaking is a consensus-based process to negotiate the text of a proposed rule. This process gives all stakeholders a chance to try to reach agreement about the main features of a rule before the Board approves, and the Agency submits, a proposal to the legislature in final form.

The Chairman asked the Administrative Assistant 2/Board Secretary to place the topic *Negotiated Rulemaking Submittal Dates* on the October 27, 2015 Board meeting agenda.

**ACTION:** The topic *Negotiated Rulemaking Submittal Dates* will be placed on the October 2015 Board meeting agenda as an informational item.

It was determined the deadline to submit proposed rule changes to DBS, for the Board's review, would be April 14, 2015. The Division will post a notice with the pertinent information for negotiated rulemaking in the April Administrative Bulletin.

**ACTION:** DBS will publish a notice in the April Administrative Bulletin with regard to negotiated rulemaking.

Jason Blais, Building Code Collaborative Representative, stated the following proposals will be submitted as part of the negotiated rulemaking process: 1) Amend the fire alarm "E" occupancy section, 2) Delete the fireplace amendment in the IRC and IECC; 3) Clarify townhouse wall language/ratings, and 4) Identify references in code sections with "C" for commercial and "R" for residential.

Suggestions by Board Members Hunter and Welch were: 1) Have the Board vote at the April 2015 meeting for the Collaborative to begin the review process of the 2015 codes for proposed changes, 2) At the June 23<sup>rd</sup> meeting, establish a meeting schedule for the Collaborative to begin discussion on the 2015 codes and publication dates of board meetings in the Administrative Bulletin.

The Deputy Attorney General proposed at the October 2015 meeting, when setting the 2016 Board meeting dates, possibly have a standing order for DBS to place the April and June meeting dates in the first published Administrative Bulletin of the following year.

◆ **Legislative Update**

The Board's rule dockets have been reviewed and approved by the House Business and Senate Commerce and Human Resources Committees. They are: 1) Mechanical ventilation requirements with less than five air changes an hour, 2) Exemption of fence heights up to seven feet, and 3) Correction of the lodging house provisions back to five guest rooms for fire sprinkler exemption.

S1001 “Workplace Safety” – This bill relates to workplace safety. Should it pass the 2015 legislature, the authority for school safety and building safety inspections will transfer to DBS from the Industrial Commission.

♦ **Program Manager Report**

Rule Change – DBS will present one proposed rule change to the Board. The proposal will only affect the Division and will allow large institutions; i.e., universities, capitol mall, etc. to purchase an annual permit to perform minor work. As part of the proposal, the organizations will not have to submit plans or purchase separate permits.

♦ **Operational Report**

Tiny Homes and Park Model RVs – DBS has ongoing concerns relative to requirements for tiny homes and park model RVs. Local jurisdictions are asked to provide any ideas on how that process could be improved. In many circumstances tiny homes and park model RVs, over 8’ 6” in width, fall under the modular requirements.

Mobile Home Rehabilitation – The Deputy Administrator-Operations asked local jurisdictions’ for their input in setting limits on mobile home rehabs being brought into Idaho. Currently, the homes are 40-plus years old. The state of Idaho does not restrict individuals from bringing mobile homes into Idaho from other states; however, adjoining states have deemed it illegal to relocate pre-HUD homes in their states.

♦ **Administrator Report**

Financial Manager – Fred Sisneros, the Division’s newly hired Fiscal Manager, provided a summary of his career.

Financial Report – The Idaho Building Code fund, FY 2015 financial statement as of December 31, 2014, was reviewed.

Statewide Compliance Program – Effective March 15, 2015, DBS will focus on a statewide compliance program. The vision is for compliance to be the responsibility of one compliance manager, not the program managers.

Videoconferencing – Currently, regularly scheduled board meetings are held via videoconference between the Division’s Meridian, Coeur d’Alene, and Pocatello offices. For negotiated rulemaking purposes, the two meetings/hearings will be broadcast from three additional locations in Lewiston, Twin Falls, and Idaho Falls.

**ACTION:** Moving forward, DBS will videoconference the two statutorily required board meetings/hearings for negotiated rulemaking between the Division’s Meridian, Pocatello, and Coeur d’Alene offices, as well as three additional locations in Lewiston, Twin Falls, and Idaho Falls.



Construction – Following are new or existing construction projects throughout the state of Idaho: 1) 5-star/5-story hotel, Hailey; 2) Magnida Fertilizer Plant, American Falls; and 3) Fort Hall Casino, Fort Hall.

◆ **Adjournment**

**MOTION:** Mike Tracy made a motion to adjourn the meeting. Dennis Schaffner seconded. All in favor, motion carried.

The meeting adjourned at 10:52 a.m. (MT).

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ANDREW BICK, CHAIRMAN  
IDAHO BUILDING CODE BOARD

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C. KELLY PEARCE, ADMINISTRATOR  
DIVISION OF BUILDING SAFETY

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DATE

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DATE

\*These DRAFT minutes are subject to possible correction and final approval by the Idaho Building Code Board. 03/11/2015rb

# IDAHO BUILDING CODE BOARD

**Agenda Item No. 03**

**Negotiated Rulemaking**

**PRESENTER:** Andrew Bick, Chairman

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**OBJECTIVE:** Review proposed amendments to the current building and energy codes.

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**ACTION:** Informational

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**BACKGROUND:**

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**PROCEDURAL  
HISTORY:**

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**ATTACHMENTS:**

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**DIVISION OF BUILDING SAFETY  
APPLICATION FOR REVIEW OF A PROPOSED STATEWIDE AMENDMENT  
TO STATE ADOPTED CODES  
2012 Code Adoption Cycle**

Log# \_\_\_\_\_  
(Office Use Only)

**PLEASE FOLLOW INSTRUCTIONS ON PAGE FIVE**

**1. State Building Code to be Amended:**


<input checked="" type="checkbox"/> International Building Code	<input type="checkbox"/> International Energy Conservation Code
<input type="checkbox"/> International Residential Code	<input type="checkbox"/> International Mechanical Code
<input type="checkbox"/> International Fuel Gas Code	<input type="checkbox"/> National Electrical Code
<input type="checkbox"/> International Existing Building Code	<input type="checkbox"/>
<input type="checkbox"/> Idaho State Plumbing Code	<input type="checkbox"/>

Section 907.2.3 Page 217

**2. Applicant Name (Specific local government, organization or individual):**

Code Collaborative Subcommittee

**3. Signed:**

 City of Boise Building Official 2-18-15  
Proponent Title Date

**4. Designated Contact Person:**

Jason Blais City of Boise Building Official  
Name Title

Address: City of Boise – Planning & Development Services (PDS)  
P.O. Box 500  
Boise, ID 83701

384-3807 384-3814  
Office Phone Cell Fax

E-mail address: jblais@cityofboise.org

**5. Proposed Code Amendment.** Use 'legislative format' including both old and new language. See instructions on page five for specific details. Please attach a separate sheet for each separate proposal.

IBC	907.2.3	217
<b>Code</b>	<b>Section</b>	<b>Page</b>

**Please note number of additional pages: 2**

**[F] 907.2.3 Group E.** A manual fire alarm system that initiates the occupant notification signal utilizing an emergency voice/alarm communication system meeting the requirements of Section 907.5.2.2 and installed in accordance with Section 907.6 shall be installed in Group E occupancies. When *automatic sprinkler systems* or smoke detectors are installed, such systems or detectors shall be connected to the building fire alarm system.

**Exceptions:**

1. A manual fire alarm system is not required in Group E occupancies with an *occupant load* of 30 50 or less.
2. Emergency voice/alarm communication systems meeting the requirements of Section 907.5.2.2 and installed in accordance with Section 907.6 shall not be required in Group E occupancies with occupant loads of 100 or less, provided that activation of the manual fire alarm system initiates an approved occupant notification signal in accordance with Section 907.5.
2. 3. Manual fire alarm boxes are not required in Group E occupancies where all of the following apply:
  - ~~2.1.~~ 3.1. Interior *corridors* are protected by smoke detectors.
  - ~~2.2.~~ 3.2. Auditoriums, cafeterias, gymnasiums and similar areas are protected by *heat detectors* or other *approved* detection devices.
  - ~~2.3.~~ 3.3. Shops and laboratories involving dusts or vapors are protected by *heat detectors* or other *approved* detection devices.
- ~~3.~~ 4. Manual fire alarm boxes shall not be required in Group E occupancies where ~~the building is equipped throughout with an approved automatic sprinkler system installed in accordance with Section 903.3.1.1, the emergency voice/alarm communication system will activate on sprinkler water flow and manual activation is provided from a normally occupied location.~~ all of the following apply:
  - 4.1. The building is equipped throughout with an approved automatic sprinkler system installed in accordance with Section 903.3.1.1.
  - 4.2. The emergency voice/alarm communication system will activate on sprinkler waterflow.
  - 4.3. Manual activation is provided from a normally occupied location.

**Supporting Data for Statewide Amendment Proposals.** This information is required for all statewide amendment proposals. **Attach supporting documentation, as necessary; incomplete proposals will not be accepted.**

The governing boards require supporting data on any amendment proposal to show:

1. That it meets basic criteria – See Part I to specify how this proposal meets the criteria for code amendment.
2. The intended effect – See Part II to describe the purpose of the proposed amendment, including the benefits and the problems addressed.
3. The potential impacts or benefits to business – See Part III/Types of Construction, to explain how methods in construction businesses, industries and services would be affected.
4. The potential impacts on enforcement procedures, See Part III/Types of Services Required, to provide some analysis of the impacts on code enforcement in local jurisdictions.
5. Economic costs and benefits – Use the Table in Part IV of this form to estimate the costs and benefits of the proposal on construction practices, users and/or the public, the enforcement community, and operation and maintenance.

### **Part I ♦ Background information on amendment.**

Code references: Section 907.2.3

Title: Group E

Related Codes: Yes – Fire Code needs to be amended as well for consistency.

(Does this amendment change other related codes?)

Proponent: Jason Blais

Phone: 384-3807

Date: 2/18/15

**NOTE:** Amendments to the state building code must be based on one of the following criteria; please indicate the pertinent rationale for the proposed amendment by selecting from the list below:

- ☐ (1) The amendment is needed to address a critical life/safety need.
- ☐ (2) The amendment is needed to address a specific state policy or statute.
- ☐ (3) The amendment is needed for consistency with state or federal regulations.
- ☐ (4) The amendment is needed to address a unique character of the state.
- ☒ (5) The amendment corrects errors and omissions.

### **Part II ♦ Amendment Benefit:**

**PROBLEM(S) ADDRESSED** (Describe the intended effect of the proposed code amendment):

In the 2009 IBC the occupant load threshold for requiring a manual fire alarm system in an E occupancy was over 50 occupants. In the 2012 IBC the threshold has been lowered to over 30 occupants and a voice/alarm communication system is required in addition to the manual fire alarm system. This new requirement is excessive especially in small school buildings or daycares where there is no need to have a voice notification system. Installing these systems can also be costly for small operations.

Fortunately this excessive requirement was noticed and has been corrected to a more reasonable approach published in the 2015 IBC, which is currently not adopted. This proposal reflects the corrected language in the 2015 IBC and the Code Collaborative Subcommittee agreed to recommend this code amendment as resolution to the applicable section in the current adopted 2012 IBC. To correlate the requirements with Fire Officials, it is recommended that the Fire Code be amended as well.

**PRIMARY REASON FOR AMENDMENT:** (Describe how the amendment meets one of the criteria listed above)

The explanation of the change from the 2009 code to the 2012 code was not backed up with any apparent major incidents or loss history. The occupant load number was lowered to match a rated corridor threshold instead of staying with the threshold of when two exits are required. This seems to have been an error in judgment.

This change has been considered excessive and was properly corrected in the development of the 2015 version of the code. The 2015 code language is what is being proposed here for the currently adopted 2012 IBC.

This tiered approach for fire alarm requirements in the E occupancy is much more reasonable and is summarized as follows:

- 50 or less occupant load – fire alarm system is not required (for small schools/daycares)
- 51-100 occupant load – manual fire alarm system is required (for mid-size schools/daycares)
- 101 or more occupant load – manual fire alarm system with emergency voice/alarm communication system (for larger schools/daycares)

There is no cost associated with this amendment proposal. In fact, this amendment will reduce costs to these educational occupancy buildings when compared to the current 2012 IBC language on this section.

There is agreement and a recommendation of approval from the Code Collaborative Subcommittee on this amendment proposal.

**TYPE OF BENEFITS PROJECTED:**

**Part III ♦ Amendment Impacts or Benefits:**

**TYPES OF CONSTRUCTION:** ☒ New Construction ☒ Alteration/Tenant Improvement/Repair  
☐ Residential-Single Family ☐ Residential-Multi Family ☒ Commercial ☐ Industrial

**List businesses/industries affected by amendment:**

Manufacturers: \_\_\_\_\_  
 Specific Construction Contractors & Trades: Commercial Contractors  
 Construction Supply Industry: \_\_\_\_\_  
 Specialty Trades: Fire Alarm Designers/Contractors  
 Types of Buildings: Schools, Daycares  
 Fire Protection Industry: Fire Alarm Designers/Contractors

**Types of Services Required:**

- ☐ **Reporting:** Brief Description \_\_\_\_\_  
☐ **Record Keeping:** Brief Description \_\_\_\_\_  
☐ **Other:** Brief Description \_\_\_\_\_  
☐ **Indirect Cost to Industry:** Indicate whether there are multiple sources to obtain the equipment, material or service required by this proposal. If not, provide a justification of the benefit versus small business impact.

**Part IV ♦ Amendment Costs and Benefits**

Building Type		Construction <sup>1</sup>			Enforcement <sup>2</sup>			Operations & Maintenance <sup>3</sup>		
		Co sts	% impact <sup>4</sup>	Benefits <sup>5</sup>	Costs	% impact	Benefits	Costs	% impact	Benefits
Residential										
Single family										
Multi-family										
Commercial/Retail		Ø	Ø	Contractors	Ø	Ø	more reasonable enforcement	Ø	Ø	Schools Daycares } reduces costs
Industrial										
Institutional										

<sup>1</sup> \$ / square foot of floor area or other cost. Attach data. Construction costs are costs prior to occupancy, and include both design and direct construction costs that impact the total cost of the construction to the owner/consumer.

<sup>2</sup> Cost per project plan. Attach data. Enforcement costs include governmental review of plans, field inspection, and mediated litigation required for enforcement.

<sup>3</sup> Cost to building owner/tenants over the life of the project.

<sup>4</sup> Cost differential over a specific size project or range of projects as determined by the proponent. Provide sufficient cost and benefit detail to clarify the impact to the Council. All data should be created and referenced to third party reputable sources for verification.

<sup>5</sup> Note sectors with measurable benefit from Part II, including benefits to a) the user, b) the public, c) the industry, and/or d) the economy; use e) for all of the above.



using an emergency voice/alarm communications system in accordance with Section 907.5.2.2.

**Exception:** Where *approved*, the prerecorded announcement is allowed to be manually deactivated for a period of time, not to exceed 3 minutes, for the sole purpose of allowing a live voice announcement from an *approved, constantly attended location*.

**[F] 907.2.1.2 Emergency voice/alarm communication captions.** Stadiums, arenas and grandstands required to caption audible public announcements shall be in accordance with Section 907.5.2.2.4.

**[F] 907.2.2 Group B.** A manual fire alarm system shall be installed in Group B occupancies where one of the following conditions exists:

1. The combined Group B *occupant load* of all floors is 500 or more.
2. The Group B *occupant load* is more than 100 persons above or below the lowest level of exit discharge.
3. The *fire area* contains an ambulatory care facility.

**Exception:** Manual fire alarm boxes are not required where the building is equipped throughout with an *automatic sprinkler system* installed in accordance with Section 903.3.1.1 and the occupant notification appliances will activate throughout the notification zones upon sprinkler water flow.

**[F] 907.2.2.1 Ambulatory care facilities.** *Fire areas* containing ambulatory care facilities shall be provided with an electronically supervised automatic smoke detection system installed within the ambulatory care facility and in public use areas outside of tenant spaces, including public *corridors* and elevator lobbies.

**Exception:** Buildings equipped throughout with an *automatic sprinkler system* in accordance with Section 903.3.1.1, provided the occupant notification appliances will activate throughout the notification zones upon sprinkler waterflow.

**[F] 907.2.3 Group E.** A manual fire alarm system that initiates the occupant notification signal utilizing an emergency voice/alarm communication system meeting the requirements of Section 907.5.2.2 and installed in accordance with Section 907.6 shall be installed in Group E occupancies. When *automatic sprinkler systems* or smoke detectors are installed, such systems or detectors shall be connected to the building fire alarm system.

**Exceptions:**

1. A manual fire alarm system is not required in Group E occupancies with an *occupant load* of 50 or less.
2. Emergency voice/alarm communication systems meeting the requirements of Section 907.5.2.2 and installed in accordance with Section 907.6 shall not be required in Group E occupancies with occupant loads of 100 or less, provided that

activation of the manual fire alarm system initiates an *approved* occupant notification signal in accordance with Section 907.5.

3. Manual fire alarm boxes are not required in Group E occupancies where all of the following apply:

- 3.1. Interior *corridors* are protected by smoke detectors.
- 3.2. Auditoriums, cafeterias, gymnasiums and similar areas are protected by *heat detectors* or other *approved* detection devices.
- 3.3. Shops and laboratories involving dusts or vapors are protected by *heat detectors* or other *approved* detection devices.

4. Manual fire alarm boxes shall not be required in Group E occupancies where all of the following apply:

- 4.1. The building is equipped throughout with an *approved automatic sprinkler system* installed in accordance with Section 903.3.1.1.
- 4.2. The emergency voice/alarm communication system will activate on sprinkler waterflow.
- 4.3. Manual activation is provided from a normally occupied location.

**[F] 907.2.4 Group F.** A manual fire alarm system that activates the occupant notification system in accordance with Section 907.5 shall be installed in Group F occupancies where both of the following conditions exist:

1. The Group F occupancy is two or more *stories* in height.
2. The Group F occupancy has a combined *occupant load* of 500 or more above or below the lowest level of exit discharge.

**Exception:** Manual fire alarm boxes are not required where the building is equipped throughout with an *automatic sprinkler system* installed in accordance with Section 903.3.1.1 and the occupant notification appliances will activate throughout the notification zones upon sprinkler water flow.

**[F] 907.2.5 Group H.** A manual fire alarm system that activates the occupant notification system in accordance with Section 907.5 shall be installed in Group H-5 occupancies and in occupancies used for the manufacture of organic coatings. An automatic smoke detection system shall be installed for highly toxic gases, organic peroxides and oxidizers in accordance with Chapters 60, 62 and 63, respectively, of the *International Fire Code*.

**[F] 907.2.6 Group I.** A manual fire alarm system that activates the occupant notification system in accordance with Section 907.5 shall be installed in Group I occupancies. An automatic smoke detection system that activates the occupant notification system in accordance with Section



**F158 – 13****907.2.3 (IBC [F] 907.2.3)**

**Proponent:** Adolf Zubia. Chairman IAFC Fire and Life Safety Section, representing ICC Fire Code Action Committee (azubiamia@yahoo.com)

**Revise as follows:**

**907.2.3 (IBC [F] 907.2.3) Group E.** A manual fire alarm system that initiates the occupant notification signal utilizing an emergency voice/alarm communication system meeting the requirements of Section 907.5.2.2 and installed in accordance with Section 907.6 shall be installed in Group E occupancies. When automatic sprinkler systems or smoke detectors are installed, such systems or detectors shall be connected to the building fire alarm system.

**Exceptions:**

1. A manual fire alarm system is not required in Group E occupancies with an occupant load of ~~30~~ 50 or less.
2. Emergency voice/ alarm communication systems meeting the requirements of Section 907.5.2.2 and installed in accordance with Section 907.6 shall not be required in Group E occupancies with occupant loads of 100 or less, provided that activation of the manual fire alarm system initiates an approved occupant notification signal in accordance with Section 907.5.
- ~~23.~~ Manual fire alarm boxes are not required in Group E occupancies where all of the following apply:
  - ~~2-1~~ 31. Interior corridors are protected by smoke detectors.
  - ~~2-2~~ 32. Auditoriums, cafeterias, gymnasiums and similar areas are protected by heat detectors or other approved detection devices.
  - ~~2-3~~ 33. Shops and laboratories involving dusts or vapors are protected by heat detectors or other approved detection devices.
- ~~34.~~ Manual fire alarm boxes shall not be required in Group E occupancies where the building is equipped throughout with an approved automatic sprinkler system installed in accordance with Section 903.3.1.1, the emergency voice/alarm communication system will activate on sprinkler water flow and manual activation.

**Reason:** Many small schools or day cares consist of one or two rooms. For such small buildings, there is no need to install a notification system to warn occupants of fires or other emergencies, as occupants are typically in close visual or audible contact with all occupied spaces and with each other. This arrangement provides for adequate means to notify all occupants of the building of potential hazardous conditions to initiate emergency actions, including evacuation.

The threshold in Exception 1 has been reduced from 50 to 30 with no apparent loss history. The testimony presented by the proponent of Code Change F107-09/10 was that the number was modified to correlate the occupant load trigger for 1-HR rated corridors. It is common that individual classrooms contain an occupant load of 30 students. It seems that a more appropriate occupant load trigger is the egress provision which requires a second exit at an occupant load of 50, not 30.

An alarm system in a single classroom, or set of small classrooms, does not appear justified. It appears that the appropriate 'occupant load trigger' is 50 since that is when a fire alarm system has been required for many years without any major incidents. Therefore, this proposal will move the trigger to an occupant load of 50 to determine when a manual fire alarm system is required.

Exception 2 is proposed to be added. This exception would require the emergency voice communication system when the occupant load exceeds 100, as buildings with larger numbers of occupants may necessitate detailed instructions regarding evacuation, relocation, or other actions to ensure safety of building occupants. Often, these buildings include multiple floors, fire areas, and egress paths, and occupants may require notification of more detailed or modified instructions on alternate courses of action other than those stated in a standard evacuation plan.

The result of this proposal is that when the occupant load is:

50 or less – fire alarm system is not required

51 to 100 – manual fire alarm system is required

101 or more – manual fire alarm system with emergency voice/alarm communication system

**DIVISION OF BUILDING SAFETY  
APPLICATION FOR REVIEW OF A PROPOSED STATEWIDE AMENDMENT  
TO STATE ADOPTED CODES  
2012 Code Adoption Cycle**

Log# \_\_\_\_\_  
(Office Use Only)

**PLEASE FOLLOW INSTRUCTIONS ON PAGE FIVE**

**1. State Building Code to be Amended:**


<input type="checkbox"/> International Building Code	<input checked="" type="checkbox"/> International Energy Conservation Code
<input checked="" type="checkbox"/> International Residential Code	<input type="checkbox"/> International Mechanical Code
<input type="checkbox"/> International Fuel Gas Code	<input type="checkbox"/> National Electrical Code
<input type="checkbox"/> International Existing Building Code	<input checked="" type="checkbox"/> IDAPA 07.03.01, 004, 02, p.
<input type="checkbox"/> Idaho State Plumbing Code	<input checked="" type="checkbox"/> IDAPA 07.03.01, 004, 04, j.

**Section:** 07.03.01, 004, 02, p. & 07.03.01, 004, 04, j. of IDAPA rules      **Page:** In IDAPA rules

**2. Applicant Name (Specific local government, organization or individual):**

Code Collaborative Subcommittee

**3. Signed:**


City of Boise Building Official
3-5-15  
**Proponent**
**Title**
**Date**

**4. Designated Contact Person:**

Jason Blais
City of Boise Building Official  
**Name**
**Title**

**Address:**
City of Boise – Planning & Development Services  
P.O. Box 500  
Boise, ID 83701

384-3807  
**Office Phone**
**Cell**
**Fax**

**E-mail address:** jblais@cityofboise.org

**5. Proposed Code Amendment.** Use ‘legislative format’ including both old and new language. See instructions on page five for specific details. Please attach a separate sheet for each separate proposal.

IRC/IECC	07.03.01, 004, 02, p. & 07.03.01, 004, 04, j. of IDAPA rules	In IDAPA
Code	Section	Page

**Please note number of additional pages: 2**

Delete IDAPA 07.03.01, 004, 02, p. that amends IRC N1102.4.3 with no replacement:

~~p. Delete section N1102.4.3 and replace with the following: Fireplaces. New wood-burning fireplaces shall have tight-fitting flue dampers and outdoor combustion air. (4-4-13)~~

Delete IDAPA 07.03.01, 004, 04, j. that amends IECC 402.4.3 with no replacement:

~~j. Delete section 402.4.3 and replace with the following: Fireplaces. New wood-burning fireplaces shall have tight-fitting flue dampers and outdoor combustion air. (4-4-13)~~

**Supporting Data for Statewide Amendment Proposals.** This information is required for all statewide amendment proposals. **Attach supporting documentation, as necessary; incomplete proposals will not be accepted.**

The governing boards require supporting data on any amendment proposal to show:

1. That it meets basic criteria – See Part I to specify how this proposal meets the criteria for code amendment.
2. The intended effect – See Part II to describe the purpose of the proposed amendment, including the benefits and the problems addressed.
3. The potential impacts or benefits to business – See Part III/Types of Construction, to explain how methods in construction businesses, industries and services would be affected.
4. The potential impacts on enforcement procedures, See Part III/Types of Services Required, to provide some analysis of the impacts on code enforcement in local jurisdictions.
5. Economic costs and benefits – Use the Table in Part IV of this form to estimate the costs and benefits of the proposal on construction practices, users and/or the public, the enforcement community, and operation and maintenance.

### **Part I ♦ Background information on amendment.**

Code references: IRC N1102.4.3/IECC 402.4.3

Title: Fireplaces/Fireplaces

Related Codes: None

(Does this amendment change other related codes?)

Proponent: Jason Blais

Phone: 384-3807

Date: 3/5/15

**NOTE:** Amendments to the state building code must be based on one of the following criteria; please indicate the pertinent rationale for the proposed amendment by selecting from the list below:

- ☐ (1) The amendment is needed to address a critical life/safety need.
- ☐ (2) The amendment is needed to address a specific state policy or statute.
- ☐ (3) The amendment is needed for consistency with state or federal regulations.
- ☐ (4) The amendment is needed to address a unique character of the state.
- ☒ (5) The amendment corrects errors and omissions.

### **Part II ♦ Amendment Benefit:**

**PROBLEM(S) ADDRESSED** (Describe the intended effect of the proposed code amendment):

The amendments in IDAPA rules for N1102.4.3 in the IRC and 402.4.3 in the IECC were added to the 2009 editions of these codes based on language from the 2012 editions before 2012 versions were adopted. Now that the 2012 editions of the IRC and IECC are adopted, these amendments are no longer needed as the language is now in the published base codes. The code section references have also changed in the 2012 editions. The Code Collaborative shortly discussed and concluded that these IDAPA rule amendments do just need to be deleted since the current 2012 codes have the language in them already.

**PRIMARY REASON FOR AMENDMENT:** (Describe how the amendment meets one of the criteria listed above)

In the process of adopting the 2012 IRC and 2012 IECC, the need to delete the IDAPA rule amendments to sections N1102.4.3 and 402.4.3 was overlooked. This amendment proposal of deleting IDAPA 07.03.01, 004, 02, p. and IDAPA 07.03.01, 004, 04, j. will correct that omission. The Code Collaborative has agreed to this proposal.

**TYPE OF BENEFITS PROJECTED:**

**Part III ♦ Amendment Impacts or Benefits:**

**TYPES OF CONSTRUCTION:** ☒ New Construction ☐ Alteration/Tenant Improvement/Repair  
☒ Residential-Single Family ☐ Residential-Multi Family ☐ Commercial ☐ Industrial

**List businesses/industries affected by amendment:**

Manufacturers: Fireplace - no affect  
 Specific Construction Contractors & Trades: \_\_\_\_\_  
 Construction Supply Industry: Fireplace - no affect  
 Specialty Trades: \_\_\_\_\_  
 Types of Buildings: \_\_\_\_\_  
 Fire Protection Industry: \_\_\_\_\_

**Types of Services Required:**

- ☐ **Reporting:** Brief Description \_\_\_\_\_  
☐ **Record Keeping:** Brief Description \_\_\_\_\_  
☐ **Other:** Brief Description \_\_\_\_\_  
☐ **Indirect Cost to Industry:** Indicate whether there are multiple sources to obtain the equipment, material or service required by this proposal. If not, provide a justification of the benefit versus small business impact.

**Part IV ♦ Amendment Costs and Benefits**

Building Type		Construction <sup>1</sup>			Enforcement <sup>2</sup>			Operations & Maintenance <sup>3</sup>		
	Co sts	% impact <sup>4</sup>	Benefits <sup>5</sup>	Costs	% impact	Benefits	Costs	% impact	Benefits	
Residential	Ø	Ø	No affect	Ø	Ø	No affect	Ø	Ø	No affect	
Single family										
Multi-family										
Commercial/ Retail										
Industrial										
Institutional										

<sup>1</sup> \$ / square foot of floor area or other cost. Attach data. Construction costs are costs prior to occupancy, and include both design and direct construction costs that impact the total cost of the construction to the owner/consumer.

<sup>2</sup> Cost per project plan. Attach data. Enforcement costs include governmental review of plans, field inspection, and mediated litigation required for enforcement.

<sup>3</sup> Cost to building owner/tenants over the life of the project.

<sup>4</sup> Cost differential over a specific size project or range of projects as determined by the proponent. Provide sufficient cost and benefit detail to clarify the impact to the Council. All data should be created and referenced to third party reputable sources for verification.

<sup>5</sup> Note sectors with measurable benefit from Part II, including benefits to a) the user, b) the public, c) the industry, and/or d) the economy; use e) for all of the above.

o. Delete IRC section R602.10 and replace with the following: Wall bracing. Buildings shall be braced in accordance with this section or, when applicable section R602.12, or the most current edition of APA System Report SR-102 as an alternate method. Where a building, or portion thereof, does not comply with one (1) or more of the bracing requirements in this section, those portions shall be designated and constructed in accordance with section R301.1. (3-20-14)

Delete → p. Delete section N1102.4.3 and replace with the following: Fireplaces. New wood-burning fireplaces shall have tight-fitting flue dampers and outdoor combustion air. (4-4-13)

q. Chapter 11 [RE] Energy Efficiency - The following sections and tables of chapter 11 shall be amended in accordance with the requirements contained below in Subsection 004.04 of these rules which correspond to the appropriate section: (3-20-14)

- i. Table N1102.1.1 (Table R402.1.1) - Insulation and Fenestration Requirements by Component; (3-20-14)
- ii. Table N1102.1.3 (Table R402.1.3 - Equivalent U-Factors; (3-20-14)
- iii. Table N1102.2.6 (Table R402.2.6) - Steel-Frame Ceiling, Wall and Floor Insulation (R-Value); (3-20-14)
- iv. Section N1102.4.1 (R402.4.1) Building Thermal Envelope; (3-20-14)
- v. Section N1102.4.1.1 (R402.4.1.1) - Insulation; (3-20-14)
- vi. Table N1102.4.1.1 (Table R402.4.1.1) - Air Barrier and Insulation Installation; (3-20-14)
- vii. Section N1102.4.1.2 (R402.4.1.2) Testing Option; (3-20-14)
- viii. Add Section N1102.4.1.3 (R402.4.1.3) - Visual Inspection Option; (3-20-14)
- ix. Add Section N1102.6 (R402.6) - Residential Log Home Thermal Envelope; (3-20-14)
- x. Add Table N1102.6 (Table R402.6) - Log Home Prescriptive Thermal Envelope Requirements by Component; and (3-20-14)
- xi. Section N1104.1 (R404.1) - Lighting Equipment. (3-20-14)

03. International Existing Building Code. 2012 Edition. (4-4-13)

04. International Energy Conservation Code. 2012 Edition with the following amendments. (3-20-14)

a. Delete the values contained in Table R402.1.1 (Table N1102.1.1) for climate zone "5 and Marine 4" and climate zone "6" and replace with the following: (3-20-14)

- iv. Exterior openings for continuous ventilation systems and heat recovery ventilators shall be closed and sealed; (3-20-14)
- v. Heating and cooling system(s) shall be turned off; (3-20-14)
- vi. HVAC ducts shall not be sealed; and (3-20-14)
- vii. Supply and return registers shall not be sealed. (3-20-14)

i. Add the following as section 402.4.1.3 (N1102.4.1.3): Visual inspection option, Building envelope tightness and insulation installation shall be considered acceptable when the items listed in Table 402.4.1.1, applicable to the method of construction, are field verified. Where required by code official an approved party independent from the installer of the insulation shall inspect the air barrier and insulation. (3-20-14)

Delete

j. Delete section 402.4.3 and replace with the following: Fireplaces. New wood-burning fireplaces shall have tight-fitting flue dampers and outdoor combustion air. (4-4-13)

k. Add the following section: R402.6 (N1102.6) Residential Log Home Thermal Envelope. Residential log home construction shall comply with sections 401 (General), 402.4 (Air Leakage), 402.5 (Maximum Fenestration U-Factor and SHGC), 403.1 (Controls), 403.2.2 (Sealing), 403.2.3 (Building Cavities), sections 403.3 through 403.9 (referred to as the mandatory provisions), Section 404 (Electrical Power and Lighting Systems), and either Subparagraph 004.04.b.i., ii., or iii. as follows: (3-20-14)

- i. Sections 402.2 through 402.3, 403.2.1, 404.1 and Table 402.6; (4-7-11)
- ii. Section 405 Simulated Performance Alternative (Performance); or (4-7-11)
- iii. REScheck (U.S. Department of Energy Building Codes Program). (4-7-11)

l. Add Table R402.6 (Table N1102.6) Log Home Prescriptive Thermal Envelope Requirements By Component to be used only in accordance with Subparagraph 004.04.b.i. above to appear as follows:

**TABLE R402.6**  
**LOG HOME PRESCRIPTIVE THERMAL ENVELOPE REQUIREMENTS BY COMPONENT**

For SI: 1 foot = 304.8 mm.

CLIMATE ZONE	FENESTRATION U-FACTOR <sup>a</sup>	SKYLIGHT U-FACTOR	GLAZED FENESTRATION SHGC	CEILING R-VALUE	Min. Average LOG Size in inches	FLOOR R-VALUE	BASEMENT WALL R-VALUE <sup>d</sup>	SLAB R-VALUE & DEPTH <sup>b</sup>	CRAWL SPACE WALL R-VALUE <sup>d</sup>
5, 6 - High efficiency equipment path <sup>c</sup>	0.32	0.60	NR	49	5	30	15/19	10, 4 ft.	10/13
5	0.32	0.60	NR	49	8	30	10/13	10, 2 ft.	10/13
6	0.30	0.60	NR	49	8	30	15/19	10, 4 ft.	10/13



**DIVISION OF BUILDING SAFETY  
APPLICATION FOR REVIEW OF A PROPOSED STATEWIDE AMENDMENT  
TO STATE ADOPTED CODES  
2012 Code Adoption Cycle**

Log# \_\_\_\_\_  
(Office Use Only)

**PLEASE FOLLOW INSTRUCTIONS ON PAGE FIVE**

**1. State Building Code to be Amended:**

<input type="checkbox"/> International Building Code	<input type="checkbox"/> International Energy Conservation Code
<input checked="" type="checkbox"/> International Residential Code	<input type="checkbox"/> International Mechanical Code
<input type="checkbox"/> International Fuel Gas Code	<input type="checkbox"/> National Electrical Code
<input type="checkbox"/> International Existing Building Code	<input checked="" type="checkbox"/> IDAPA 07.03.01 004 02 g.
<input type="checkbox"/> Idaho State Plumbing Code	<input type="checkbox"/>

Section R302.2 & IDAPA 07.03.01 004 02 g. Page 48

**2. Applicant Name (Specific local government, organization or individual):**

Code Collaborative Subcommittee

**3. Signed:**

 City of Boise Building Official 3-5-15  
**Proponent Title Date**

**4. Designated Contact Person:**

Jason Blais City of Boise Building Official  
**Name Title**

**Address:** City of Boise – Planning & Development Services (PDS)  
P.O. Box 500  
Boise, ID 83701

384-3807 384-3814  
**Office Phone Cell Fax**

**E-mail address:** jblais@cityofboise.org



**5. Proposed Code Amendment.** Use 'legislative format' including both old and new language. See instructions on page five for specific details. Please attach a separate sheet for each separate proposal.

IRC	R302.2 & IDAPA 07.03.01 004 02 g.	48
<b>Code</b>	<b>Section</b>	<b>Page</b>

**Please note number of additional pages: 1**

Amend IDAPA 07.03.01 004 02 g. that amends the Exception of IRC R302.2 as follows:

Delete the exception contained under IRC section R302.2 – Townhouses, and replace with the following two exceptions: ~~Exception: A common one-hour or two-hour fire-resistance-rated wall assembly tested in accordance with ASTM E 119 or UL 263 is permitted for townhouses if such walls do not contain plumbing or mechanical equipment, ducts or vents in the cavity of the common wall. The wall shall be rated for fire exposure from both sides and shall extend to and be tight against the exterior walls and the underside of the roof sheathing. Penetrations of electrical outlet boxes shall be in accordance with section R302.4.~~

**Exceptions:**

1. When provided with an automatic fire sprinkler system per section R313.1, a common 1-hour fire-resistance-rated wall assembly tested in accordance with ASTM E 119 or UL 263 is permitted for townhouses if such walls do not contain plumbing or mechanical equipment, ducts or vents in the cavity of the common wall. The wall shall be rated for fire exposure from both sides and shall extend to and be tight against exterior walls and the underside of the roof sheathing. Penetrations of electrical outlet boxes shall be in accordance with Section R302.4.
2. Two (2) 1-hour fire-resistance rated wall assemblies (as specified in Section R302.1) or a common 2-hour fire-resistance rated wall assembly tested in accordance with ASTM E 119 or UL 263 are permitted for townhouses. If two (2) 1-hour fire-resistance rated walls are used, plumbing and electrical installations within the wall cavity shall conform to fire-resistance penetration requirements in accordance with section R302.4 through R302.4.2 for each of the two (2) 1-hour rated walls penetrated. The 2-hour fire-resistance rated common wall shall not contain plumbing or mechanical equipment, ducts or vents within its wall cavity. The wall shall be rated for fire exposure from both sides and shall extend to and be tight against the exterior walls and the underside of the roof sheathing. Penetrations of electrical outlet boxes shall be in accordance with section R302.4.

**Supporting Data for Statewide Amendment Proposals.** This information is required for all statewide amendment proposals. **Attach supporting documentation, as necessary; incomplete proposals will not be accepted.**

The governing boards require supporting data on any amendment proposal to show:

1. That it meets basic criteria – See Part I to specify how this proposal meets the criteria for code amendment.
2. The intended effect – See Part II to describe the purpose of the proposed amendment, including the benefits and the problems addressed.
3. The potential impacts or benefits to business – See Part III/Types of Construction, to explain how methods in construction businesses, industries and services would be affected.
4. The potential impacts on enforcement procedures, See Part III/Types of Services Required, to provide some analysis of the impacts on code enforcement in local jurisdictions.
5. Economic costs and benefits – Use the Table in Part IV of this form to estimate the costs and benefits of the proposal on construction practices, users and/or the public, the enforcement community, and operation and maintenance.

### **Part I ♦ Background information on amendment.**

Code references: R302.2 & IDAPA 07.03.01 004 02 g.

Title: Townhouses

Related Codes: No

(Does this amendment change other related codes?)

Proponent: Jason Blais

Phone: 384-3807

Date: 3/5/15

**NOTE:** Amendments to the state building code must be based on one of the following criteria; please indicate the pertinent rationale for the proposed amendment by selecting from the list below:

- ☐ (1) The amendment is needed to address a critical life/safety need.
- ☐ (2) The amendment is needed to address a specific state policy or statute.
- ☐ (3) The amendment is needed for consistency with state or federal regulations.
- ☐ (4) The amendment is needed to address a unique character of the state.
- ☒ (5) The amendment corrects errors and omissions.

### **Part II ♦ Amendment Benefit:**

**PROBLEM(S) ADDRESSED** (Describe the intended effect of the proposed code amendment):

The exception to this section is currently amended in the state rules, however there has been some confusion on clarity of the language. This proposal aims to further clarify the code language by providing two exceptions that specify three acceptable options and methods to separate townhouses from each other. In summary, the options are as follows:

- 1) If chosen to sprinkler the townhouses (not mandated), the separation wall would be allowed to be reduced to a common 1-hour rated wall with no plumbing/mechanical components within the common wall. Limited electrical outlet box penetrations are allowed in the common wall.
- 2) With no sprinklers, two (2) 1-hour fire-resistance rated walls (constructed like exterior walls) with protected plumbing penetrations allowed within each wall. Limited electrical outlet box penetrations are allowed in each wall.

- 3) With no sprinklers, a common 2-hour fire-resistance rated wall with no plumbing/mechanical components within the common wall. Limited electrical outlet box penetrations are allowed in the common wall.

These options were discussed in the Code Collaborative Subcommittee meetings with agreement to amend to provide further clarity.

**PRIMARY REASON FOR AMENDMENT:** (Describe how the amendment meets one of the criteria listed above)

This amendment intends to correct omitted language in the current state amendment. This new proposal includes clarity on the two (2) 1-hour fire-resistance rated walls option and also clarifies a 1-hour fire-resistance rated common wall option if the applicant chooses to sprinkler the townhouses. The proposal also clarifies what types of penetrations are allowed depending on the type of separation wall option chosen.

There is no cost associated with this amendment proposal. There is also no real change in construction practice with this amendment, just clarification, as the options specified are currently being constructed or are already considered to be acceptable methods to separate townhouses based on code intent.

There is agreement and a recommendation of approval from the Code Collaborative Subcommittee on this amendment proposal.

**TYPE OF BENEFITS PROJECTED:**

**Part III ♦ Amendment Impacts or Benefits:**

**TYPES OF CONSTRUCTION:** ☒ New Construction ☐ Alteration/Tenant Improvement/Repair  
☒ Residential-Single Family ☐ Residential-Multi Family ☐ Commercial ☐ Industrial

**List businesses/industries affected by amendment:**

Manufacturers: \_\_\_\_\_  
 Specific Construction Contractors & Trades: Residential Builders - no affect  
 Construction Supply Industry: \_\_\_\_\_  
 Specialty Trades: \_\_\_\_\_  
 Types of Buildings: \_\_\_\_\_  
 Fire Protection Industry: \_\_\_\_\_

**Types of Services Required:**

- ☐ **Reporting:** Brief Description \_\_\_\_\_  
☐ **Record Keeping:** Brief Description \_\_\_\_\_  
☐ **Other:** Brief Description \_\_\_\_\_  
☐ **Indirect Cost to Industry:** Indicate whether there are multiple sources to obtain the equipment, material or service required by this proposal. If not, provide a justification of the benefit versus small business impact.

**Part IV ♦ Amendment Costs and Benefits**

Building Type	Construction <sup>1</sup>			Enforcement <sup>2</sup>			Operations & Maintenance <sup>3</sup>		
	Co sts	% impact <sup>4</sup>	Benefits <sup>5</sup>	Costs	% impact	Benefits	Costs	% impact	Benefits
Residential	Ø	Ø	Clarifies	Ø	Ø	Clarifies	Ø	Ø	N/A
Single family	Ø	Ø	more options	Ø	Ø	more options	Ø	Ø	N/A
Multi-family									
Commercial/Retail									
Industrial									
Institutional									

<sup>1</sup> \$ / square foot of floor area or other cost. Attach data. Construction costs are costs prior to occupancy, and include both design and direct construction costs that impact the total cost of the construction to the owner/consumer.

<sup>2</sup> Cost per project plan. Attach data. Enforcement costs include governmental review of plans, field inspection, and mediated litigation required for enforcement.

<sup>3</sup> Cost to building owner/tenants over the life of the project.

<sup>4</sup> Cost differential over a specific size project or range of projects as determined by the proponent. Provide sufficient cost and benefit detail to clarify the impact to the Council. All data should be created and referenced to third party reputable sources for verification.

<sup>5</sup> Note sectors with measurable benefit from Part II, including benefits to a) the user, b) the public, c) the industry, and/or d) the economy; use e) for all of the above.

	Not fire-resistance rated	0 hours	≥ 3 feet
Projections	Fire-resistance rated	1 hour on the underside	≥ 2 feet to < 3 feet
	Not fire-resistance rated	0 hours	≥ 3 feet
Openings in Walls	Not allowed	N/A	< 3 feet
	25% maximum of wall area	0 hours	≥ 3 feet to < 5 feet
	Unlimited	0 hours	5 feet
Penetrations	All	Comply with Section R302.4	< 3 feet
		None required	≥ 3 feet

For SI: 1 foot = 304.8 mm.

N/A = Not Applicable

(3-20-14)

**Amend** → g. Delete the exception contained under IRC section R302.2 -- Townhouses, and replace with the following: Exception: A common one-hour or two-hour fire resistance rated wall assembly tested in accordance with ASTM E 119 or UL 263 is permitted for townhouses if such walls do not contain plumbing or mechanical equipment, ducts or vents in the cavity of the common wall. The wall shall be rated for fire exposure from both sides and shall extend to and be tight against the exterior walls and the underside of the roof sheathing. Penetrations of electrical outlet boxes shall be in accordance with section R302.4. (3-29-10)

h. Delete IRC section R303.4 and replace with the following: R303.4 Mechanical Ventilation. Dwelling units shall be provided with whole-house mechanical ventilation in accordance with Section M1507.3

Exception: Where the air infiltration rate of a dwelling unit is equal to 5 air changes per hour or greater when tested with a blower door at a pressure of 0.2 inch w.c. (50 pa) in accordance with Section N1102.4.1.2.

i. Delete the exception contained under IRC section R313.1 -- Townhouse automatic fire sprinkler systems, and replace with the following: Exception: Automatic residential fire sprinkler systems shall not be required in townhouses where a two-hour fire-resistance rated wall is installed between dwelling units or when additions or alterations are made to existing townhouses that do not have an automatic residential fire sprinkler system installed. (3-29-10)

j. Delete IRC section R313.2. (3-29-10)

k. Add the following to IRC section R315.3 - Where required in existing dwellings: Exceptions: 1. Work involving the exterior surfaces of dwellings, such as, but not limited to, replacement of roofing or siding, or the addition or replacement of windows or doors, or the addition of a porch or deck or electrical permits, are exempt from the requirements of this section; and 2. Installation, alteration or repairs of noncombustion plumbing or mechanical systems are exempt from the requirements of this section. (3-20-14)

l. Delete IRC section R322.1.10. (3-29-10)

m. Delete IRC section R322.2.2 subparagraph 2.2, and replace with the following: The total net area of all openings shall be at least one (1) square inch (645 mm<sup>2</sup>) for each square foot (0.093 m<sup>2</sup>) of enclosed area, or the opening shall be designed and the construction documents shall include a statement that the design and installation of the openings will provide for equalization of hydrostatic flood forces on exterior walls by allowing the automatic entry and exit of floodwaters. (3-20-14)

n. Delete IRC section R501.3 and its exceptions. (3-20-14)

**DIVISION OF BUILDING SAFETY  
APPLICATION FOR REVIEW OF A PROPOSED STATEWIDE AMENDMENT  
TO STATE ADOPTED CODES  
2012 Code Adoption Cycle**

Log# \_\_\_\_\_  
(Office Use Only)

**PLEASE FOLLOW INSTRUCTIONS ON PAGE FIVE**

**1. State Building Code to be Amended:**

<input type="checkbox"/> International Building Code	<input type="checkbox"/> International Energy Conservation Code
<input checked="" type="checkbox"/> International Residential Code	<input type="checkbox"/> International Mechanical Code
<input type="checkbox"/> International Fuel Gas Code	<input type="checkbox"/> National Electrical Code
<input type="checkbox"/> International Existing Building Code	<input checked="" type="checkbox"/> IDAPA 07.03.01 004 02 i.
<input type="checkbox"/> Idaho State Plumbing Code	<input type="checkbox"/>

Section R313.1 & IDAPA 07.03.01 004 02 i. Page 62

**2. Applicant Name (Specific local government, organization or individual):**

Code Collaborative Subcommittee

**3. Signed:**

 City of Boise Building Official 3-10-15  
Proponent Title Date

**4. Designated Contact Person:**

Jason Blais City of Boise Building Official  
Name Title

Address: City of Boise – Planning & Development Services (PDS)  
P.O. Box 500  
Boise, ID 83701

384-3807 384-3814  
Office Phone Cell Fax

E-mail address: jblais@cityofboise.org

**5. Proposed Code Amendment.** Use ‘legislative format’ including both old and new language. See instructions on page five for specific details. Please attach a separate sheet for each separate proposal.

IRC	R313.1 & IDAPA 07.03.01 004 02 i.	62
<b>Code</b>	<b>Section</b>	<b>Page</b>

**Please note number of additional pages: 1**

Amend IDAPA 07.03.01 004 02 i. that amends the Exception of IRC R313.1 as follows:

Delete the exception contained under IRC section R313.1 – Townhouse automatic fire sprinkler systems, and replace with the following: Exception: Automatic residential fire sprinkler systems shall not be required in townhouses where either two (2) 1-hour fire-resistance rated walls or a common two-hour fire-resistance rated wall, as specified in Exception 2 of section R302.2, is installed between dwelling units or when additions or alterations are made to existing townhouses that do not have an automatic residential fire sprinkler system installed.



**Supporting Data for Statewide Amendment Proposals.** This information is required for all statewide amendment proposals. **Attach supporting documentation, as necessary; incomplete proposals will not be accepted.**

The governing boards require supporting data on any amendment proposal to show:

1. That it meets basic criteria – See Part I to specify how this proposal meets the criteria for code amendment.
2. The intended effect – See Part II to describe the purpose of the proposed amendment, including the benefits and the problems addressed.
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### **Part I ♦ Background information on amendment.**

Code references: R313.1 & IDAPA 07.03.01 004 02 i. Title: Townhouse automatic fire sprinkler system

---

Related Codes: No

---

(Does this amendment change other related codes?)

---

Proponent: Jason Blais

Phone: 384-3807

Date: 3/10/15

---

**NOTE:** Amendments to the state building code must be based on one of the following criteria; please indicate the pertinent rationale for the proposed amendment by selecting from the list below:

- ☐ (1) The amendment is needed to address a critical life/safety need.
- ☐ (2) The amendment is needed to address a specific state policy or statute.
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- ☐ (4) The amendment is needed to address a unique character of the state.
- ☒ (5) The amendment corrects errors and omissions.

### **Part II ♦ Amendment Benefit:**

**PROBLEM(S) ADDRESSED** (Describe the intended effect of the proposed code amendment):

The exception to this section is currently amended in the state rules, however there has been some confusion on clarity of the language. This proposal aims to further clarify the code language by providing two acceptable options and methods to separate townhouses from each other without having to install a fire sprinkler system. In summary, the options are as follows:

- 1) With no sprinklers, two (2) 1-hour fire-resistance rated walls (constructed like exterior walls) with protected plumbing penetrations allowed within each wall. Limited electrical outlet box penetrations are allowed in each wall.
- 2) With no sprinklers, a common 2-hour fire-resistance rated wall with no plumbing/mechanical components within the common wall. Limited electrical outlet box penetrations are allowed in the common wall.



These options were discussed in the Code Collaborative Subcommittee meetings with agreement to amend to provide further clarity.

**PRIMARY REASON FOR AMENDMENT:** (Describe how the amendment meets one of the criteria listed above)

This amendment intends to correct omitted language in the current state amendment. This new proposal includes clarity on the two (2) 1-hour fire-resistance rated walls option as also being an acceptable method to separate townhouses if the applicant chooses not to sprinkler the townhouses.

There is no cost associated with this amendment proposal. There is also no real change in construction practice with this amendment, just clarification, as the options specified are currently being constructed or are already considered to be acceptable methods to separate townhouses based on code intent.

There is agreement and a recommendation of approval from the Code Collaborative Subcommittee on this amendment proposal.

**TYPE OF BENEFITS PROJECTED:**

**Part III ♦ Amendment Impacts or Benefits:**

**TYPES OF CONSTRUCTION:** ☒ New Construction ☐ Alteration/Tenant Improvement/Repair  
☒ Residential-Single Family ☐ Residential-Multi Family ☐ Commercial ☐ Industrial

**List businesses/industries affected by amendment:**

Manufacturers: \_\_\_\_\_  
 Specific Construction Contractors & Trades: Residential Builders - no affect  
 Construction Supply Industry: \_\_\_\_\_  
 Specialty Trades: \_\_\_\_\_  
 Types of Buildings: \_\_\_\_\_  
 Fire Protection Industry: \_\_\_\_\_

**Types of Services Required:**

- ☐ **Reporting:** Brief Description \_\_\_\_\_  
☐ **Record Keeping:** Brief Description \_\_\_\_\_  
☐ **Other:** Brief Description \_\_\_\_\_  
☐ **Indirect Cost to Industry:** Indicate whether there are multiple sources to obtain the equipment, material or service required by this proposal. If not, provide a justification of the benefit versus small business impact.

**Part IV ♦ Amendment Costs and Benefits**

Building Type		Construction <sup>1</sup>			Enforcement <sup>2</sup>			Operations & Maintenance <sup>3</sup>	
	Co sts	% impact <sup>4</sup>	Benefits <sup>5</sup>	Costs	% impact	Benefits	Costs	% impact	Benefits
Residential	Ø	Ø	clarifies	Ø	Ø	clarifies	Ø	Ø	N/A
Single family	Ø	Ø	options	Ø	Ø	options	Ø	Ø	N/A
Multi-family									
Commercial/Retail									
Industrial									
Institutional									

<sup>1</sup> \$ / square foot of floor area or other cost. Attach data. Construction costs are costs prior to occupancy, and include both design and direct construction costs that impact the total cost of the construction to the owner/consumer.

<sup>2</sup> Cost per project plan. Attach data. Enforcement costs include governmental review of plans, field inspection, and mediated litigation required for enforcement.

<sup>3</sup> Cost to building owner/tenants over the life of the project.

<sup>4</sup> Cost differential over a specific size project or range of projects as determined by the proponent. Provide sufficient cost and benefit detail to clarify the impact to the Council. All data should be created and referenced to third party reputable sources for verification.

<sup>5</sup> Note sectors with measurable benefit from Part II, including benefits to a) the user, b) the public, c) the industry, and/or d) the economy; use e) for all of the above.

	Not fire-resistance rated	0 hours	≥ 3 feet
Projections	Fire-resistance rated	1 hour on the underside	≥ 2 feet to < 3 feet
	Not fire-resistance rated	0 hours	≥ 3 feet
Openings in Walls	Not allowed	N/A	< 3 feet
	25% maximum of wall area	0 hours	≥ 3 feet to < 5 feet
	Unlimited	0 hours	5 feet
Penetrations	All	Comply with Section R302.4	< 3 feet
		None required	≥ 3 feet

For SI: 1 foot = 304.8 mm.

N/A = Not Applicable

(3-20-14)

**g.** Delete the exception contained under IRC section R302.2 -- Townhouses, and replace with the following: Exception: A common one-hour or two-hour fire resistance rated wall assembly tested in accordance with ASTM E 119 or UL 263 is permitted for townhouses if such walls do not contain plumbing or mechanical equipment, ducts or vents in the cavity of the common wall. The wall shall be rated for fire exposure from both sides and shall extend to and be tight against the exterior walls and the underside of the roof sheathing. Penetrations of electrical outlet boxes shall be in accordance with section R302.4.

(3-29-10)

**h.** Delete IRC section R303.4 and replace with the following: R303.4 Mechanical Ventilation. Dwelling units shall be provided with whole-house mechanical ventilation in accordance with Section M1507.3

Exception: Where the air infiltration rate of a dwelling unit is equal to 5 air changes per hour or greater when tested with a blower door at a pressure of 0.2 inch w.c. (50 pa) in accordance with Section N1102.4.1.2.

**Amend → i.** Delete the exception contained under IRC section R313.1 -- Townhouse automatic fire sprinkler systems, and replace with the following: Exception: Automatic residential fire sprinkler systems shall not be required in townhouses where a two-hour fire-resistance rated wall is installed between dwelling units or when additions or alterations are made to existing townhouses that do not have an automatic residential fire sprinkler system installed.

(3-29-10)

**j.** Delete IRC section R313.2.

(3-29-10)

**k.** Add the following to IRC section R315.3 - Where required in existing dwellings: Exceptions: 1. Work involving the exterior surfaces of dwellings, such as, but not limited to, replacement of roofing or siding, or the addition or replacement of windows or doors, or the addition of a porch or deck or electrical permits, are exempt from the requirements of this section; and 2. Installation, alteration or repairs of noncombustion plumbing or mechanical systems are exempt from the requirements of this section.

(3-20-14)

**l.** Delete IRC section R322.1.10.

(3-29-10)

**m.** Delete IRC section R322.2.2 subparagraph 2.2, and replace with the following: The total net area of all openings shall be at least one (1) square inch (645 mm<sup>2</sup>) for each square foot (0.093 m<sup>2</sup>) of enclosed area, or the opening shall be designed and the construction documents shall include a statement that the design and installation of the openings will provide for equalization of hydrostatic flood forces on exterior walls by allowing the automatic entry and exit of floodwaters.

(3-20-14)

**n.** Delete IRC section R501.3 and its exceptions.

(3-20-14)

**DIVISION OF BUILDING SAFETY  
APPLICATION FOR REVIEW OF A PROPOSED STATEWIDE AMENDMENT  
TO STATE ADOPTED CODES  
2012 Code Adoption Cycle**

Log# \_\_\_\_\_  
(Office Use Only)

**PLEASE FOLLOW INSTRUCTIONS ON PAGE FIVE**

**1. State Building Code to be Amended:**

<input type="checkbox"/> International Building Code	<input checked="" type="checkbox"/> International Energy Conservation Code
<input type="checkbox"/> International Residential Code	<input type="checkbox"/> International Mechanical Code
<input type="checkbox"/> International Fuel Gas Code	<input type="checkbox"/> National Electrical Code
<input type="checkbox"/> International Existing Building Code	<input checked="" type="checkbox"/> IDAPA 07.03.01 004 04
<input type="checkbox"/> Idaho State Plumbing Code	<input type="checkbox"/>

Section IDAPA 07.03.01 004 04 Page \_\_\_\_\_

**2. Applicant Name (Specific local government, organization or individual):**

Code Collaborative Subcommittee

**3. Signed:**

 City of Boise Building Official 3-11-15  
**Proponent Title Date**

**4. Designated Contact Person:**

Jason Blais City of Boise Building Official  
**Name Title**

**Address:** City of Boise – Planning & Development Services (PDS)  
P.O. Box 500  
Boise, ID 83701

384-3807 384-3814  
**Office Phone Cell Fax**

**E-mail address:** jblais@cityofboise.org

**5. Proposed Code Amendment.** Use ‘legislative format’ including both old and new language. **See instructions on page five for specific details.** Please attach a separate sheet for each separate proposal.

IDAPA 07.03.01 004 04	(multiple sections)	
Code	Section	Page

**Please note number of additional pages: 4**

Please see separate attached document with underlined language amending IDAPA 07.03.01 004 04 that corrects multiple code section references.

**Supporting Data for Statewide Amendment Proposals.** This information is required for all statewide amendment proposals. **Attach supporting documentation, as necessary; incomplete proposals will not be accepted.**

The governing boards require supporting data on any amendment proposal to show:

1. That it meets basic criteria – See Part I to specify how this proposal meets the criteria for code amendment.
2. The intended effect – See Part II to describe the purpose of the proposed amendment, including the benefits and the problems addressed.
3. The potential impacts or benefits to business – See Part III/Types of Construction, to explain how methods in construction businesses, industries and services would be affected.
4. The potential impacts on enforcement procedures, See Part III/Types of Services Required, to provide some analysis of the impacts on code enforcement in local jurisdictions.
5. Economic costs and benefits – Use the Table in Part IV of this form to estimate the costs and benefits of the proposal on construction practices, users and/or the public, the enforcement community, and operation and maintenance.

**Part I ♦ Background information on amendment.**

Code references: IDAPA 07.03.01 004 04      Title: (multiple sections)

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Related Codes: No

---

(Does this amendment change other related codes?)

Proponent: Jason Blais

Phone: 384-3807

Date: 3/11/15

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**NOTE:** Amendments to the state building code must be based on one of the following criteria; please indicate the pertinent rationale for the proposed amendment by selecting from the list below:

- ☐ (1) The amendment is needed to address a critical life/safety need.
- ☐ (2) The amendment is needed to address a specific state policy or statute.
- ☐ (3) The amendment is needed for consistency with state or federal regulations.
- ☐ (4) The amendment is needed to address a unique character of the state.
- ☒ (5) The amendment corrects errors and omissions.

**Part II ♦ Amendment Benefit:**

**PROBLEM(S) ADDRESSED** (Describe the intended effect of the proposed code amendment):

In the process of adopting the 2012 International Energy Conservation Code (IECC), many amendments were added into the IDAPA rules. The 2012 edition of the IECC changed code section references by adding an “R” in front of the residential code sections and a “C” in front of the commercial sections. When adding the amendments into the IDAPA rules, the “R” in front of the section numbers was omitted. This proposal intends to correct code section references in multiple amendment sections of the IDAPA rules for IECC.

These corrections were discussed in the Code Collaborative Subcommittee meetings with agreement to amend to provide accurate code references.

**PRIMARY REASON FOR AMENDMENT:** (Describe how the amendment meets one of the criteria listed above)

See explanation under previous “Problem(s) Addressed” section of this proposal.

There is no cost associated with this amendment proposal. Proposal is just technical corrections of code section references in IDAPA rules for amendments of the IECC.

There is agreement and a recommendation of approval from the Code Collaborative Subcommittee on this amendment proposal to provide accurate code references in the IDAPA rules.

**TYPE OF BENEFITS PROJECTED:**

**Part III ♦ Amendment Impacts or Benefits:**

**TYPES OF CONSTRUCTION:** ☒ New Construction ☐ Alteration/Tenant Improvement/Repair  
☒ Residential-Single Family ☐ Residential-Multi Family ☐ Commercial ☐ Industrial

**List businesses/industries affected by amendment:**

Manufacturers: \_\_\_\_\_  
 Specific Construction Contractors & Trades: \_\_\_\_\_  
 Construction Supply Industry: \_\_\_\_\_  
 Specialty Trades: \_\_\_\_\_  
 Types of Buildings: \_\_\_\_\_  
 Fire Protection Industry: \_\_\_\_\_

**Types of Services Required:**

- ☐ **Reporting:** Brief Description \_\_\_\_\_  
☐ **Record Keeping:** Brief Description \_\_\_\_\_  
☐ **Other:** Brief Description \_\_\_\_\_  
☐ **Indirect Cost to Industry:** Indicate whether there are multiple sources to obtain the equipment, material or service required by this proposal. If not, provide a justification of the benefit versus small business impact.

**Part IV ♦ Amendment Costs and Benefits**

Building Type		Construction <sup>1</sup>			Enforcement <sup>2</sup>			Operations & Maintenance <sup>3</sup>	
	Co sts	% impact <sup>4</sup>	Benefits <sup>5</sup>	Costs	% impact	Benefits	Costs	% impact	Benefits
Residential	Ø	Ø	N/A	Ø	Ø	N/A	Ø	Ø	N/A
Single family	Ø	Ø	N/A	Ø	Ø	N/A	Ø	Ø	N/A
Multi-family									
Commercial/ Retail									
Industrial									
Institutional									

<sup>1</sup> \$ / square foot of floor area or other cost. Attach data. Construction costs are costs prior to occupancy, and include both design and direct construction costs that impact the total cost of the construction to the owner/consumer.

<sup>2</sup> Cost per project plan. Attach data. Enforcement costs include governmental review of plans, field inspection, and mediated litigation required for enforcement.

<sup>3</sup> Cost to building owner/tenants over the life of the project.

<sup>4</sup> Cost differential over a specific size project or range of projects as determined by the proponent. Provide sufficient cost and benefit detail to clarify the impact to the Council. All data should be created and referenced to third party reputable sources for verification.

<sup>5</sup> Note sectors with measurable benefit from Part II, including benefits to a) the user, b) the public, c) the industry, and/or d) the economy; use e) for all of the above.



**o.** Delete IRC section R602.10 and replace with the following: Wall bracing. Buildings shall be braced in accordance with this section or, when applicable section R602.12, or the most current edition of APA System Report SR-102 as an alternate method. Where a building, or portion thereof, does not comply with one (1) or more of the bracing requirements in this section, those portions shall be designated and constructed in accordance with section R301.1. (3-20-14)

**p.** Delete section N1102.4.3 and replace with the following: Fireplaces. New wood-burning fireplaces shall have tight-fitting flue dampers and outdoor combustion air. (4-4-13)

**q.** Chapter 11 [RE] Energy Efficiency - The following sections and tables of chapter 11 shall be amended in accordance with the requirements contained below in Subsection 004.04 of these rules which correspond to the appropriate section: (3-20-14)

- i. Table N1102.1.1 (Table R402.1.1) - Insulation and Fenestration Requirements by Component; (3-20-14)
- ii. Table N1102.1.3 (Table R402.1.3 - Equivalent U-Factors; (3-20-14)
- iii. Table N1102.2.6 (Table R402.2.6) - Steel-Frame Ceiling, Wall and Floor Insulation (R-Value); (3-20-14)
- iv. Section N1102.4.1 (R402.4.1) Building Thermal Envelope; (3-20-14)
- v. Section N1102.4.1.1 (R402.4.1.1) - Insulation; (3-20-14)
- vi. Table N1102.4.1.1 (Table R402.4.1.1) - Air Barrier and Insulation Installation; (3-20-14)
- vii. Section N1102.4.1.2 (R402.4.1.2) Testing Option; (3-20-14)
- viii. Add Section N1102.4.1.3 (R402.4.1.3) - Visual Inspection Option; (3-20-14)
- ix. Add Section N1102.6 (R402.6) - Residential Log Home Thermal Envelope; (3-20-14)
- x. Add Table N1102.6 (Table R402.6) - Log Home Prescriptive Thermal Envelope Requirements by Component; and (3-20-14)
- xi. Section N1104.1 (R404.1) - Lighting Equipment. (3-20-14)

**03.** **International Existing Building Code.** 2012 Edition. (4-4-13)

**04.** **International Energy Conservation Code.** 2012 Edition with the following amendments. (3-20-14)

**a.** Delete the values contained in Table R402.1.1 (Table N1102.1.1) for climate zone “5 and Marine 4” and climate zone “6” and replace with the following: (3-20-14)

**Table R402.1.1  
INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT**

Climate Zone	Fenestration U- Factor	Skylight U-factor	Glazed Fenestration SHGC	Ceiling R-Value	Wood Frame Wall R-Value	Mass Wall R-Value	Floor R-Value	Basement Wall R-Value	Slab R-Value	Crawlspace Wall R-Value
5 and Marine 4	0.35	0.60	NR	38	20 or 13+5 <sup>h</sup>	13/17	30 <sup>g</sup>	10/13	10, 2 ft	10/13
6	0.35	0.60	NR	49	20 or 13+5 <sup>h</sup>	15/19	30 <sup>g</sup>	15/19	10, 4 ft	10/13

(3-20-14)

b. Add the following footnote to the title of Table R402.1.1 - Insulation and Fenestration Requirements by Component: <sup>k</sup> For residential log home building thermal envelope construction requirements see section R402.6. (4-7-11)

c. Delete the values contained in Table R402.1.3 (Table N1102.1.3) for climate zone “5 and Marine 4” and climate zone “6” and replace with the following:

**Table R402.1.3  
EQUIVALENT U-FACTORS**

Climate Zone	Fenestration U-factor	Skylight U-factor	Ceiling R-Value	Wood Frame Wall R-Value	Mass Wall R-Value	Floor R-Value	Basement Wall R-Value	Crawlspace Wall R-Value
5 and Marine 4	0.35	0.60	0.030	0.057	0.082	0.033	0.059	0.065
6	0.35	0.60	0.026	0.057	0.060	0.033	0.050	0.065

(3-20-14)

d. Delete Table R402.2.6 (Table N1102.2.6) and replace with the following:

**TABLE R402.2.6  
STEEL-FRAME CEILING, WALL AND FLOOR INSULATION  
(R-VALUE)**

WOOD FRAME R-VALUE REQUIREMENT	COLD-FORMED STEEL EQUIVALENT R-VALUE <sup>a</sup>
<b>Steel Truss Ceilings<sup>b</sup></b>	
R-30	R-38 or R-30 + 3 or R-26 + 5
R-38	R-49 or R-38 + 3

R-49	R-38 + 5
<b>Steel Joist Ceilings<sup>b</sup></b>	
R-30	R-38 in 2 x 4 or 2 x 6 or 2 x 8 R-49 in any framing
R-38	R-49 in 2 x 4 or 2 x 6 or 2 x 8 or 2 x 10
<b>Steel-Framed Wall</b>	
R-13	R-13 + 5 or R-15 + 4 or R-21 + 3 or R-0 + 10
R-19	R-13 + 9 or R-19 + 8 or R-25 + 7
R-21	R-13 + 10 or R-19 + 9 or R-25 + 8
<b>Steel Joist Floor</b>	
R-13	R-19 in 2 x 6 R-19 + 6 in 2 x 8 or 2 x 10
R-19	R-19 + 6 in 2 x 6 R-19 + 12 in 2 x 8 or 2 x 10
a. Cavity insulation R-value is listed first, followed by continuous insulation R-value. b. Insulation exceeding the height of the framing shall cover the framing.	

(3-20-14)

e. Delete section R402.4.1 (N1102.4.1) and replace with the following: Building thermal envelope. The building thermal envelope shall comply with sections R402.1.1 and either section R402.4.1.2 or R402.4.1.3. The sealing methods between dissimilar materials shall allow for differential expansion and contraction. (3-20-14)

f. Delete section R402.4.1.1 (N1102.4.1.1) and replace with the following: Installation. The components of the building thermal envelope as listed in Table R402.4.1.1 shall be installed in accordance with the manufacturer's instructions and the criteria listed in Table R402.4.1.1, as applicable to the method of construction. (3-20-14)

g. Delete the criteria requirement for the "Fireplace" component of Table R402.4.1.1 (Table N1102.4.1.1) - Air Barrier and Insulation Installation, and replace with the following: An air barrier shall be installed on fireplace walls. (3-20-14)

h. Delete section R402.4.1.2 (N1102.4.1.2) and replace with the following: Testing option, Building envelope tightness and insulation installation shall be considered acceptable when tested air leakage is less than seven (7) air changes per hour (ACH) when tested with a blower door at a pressure of 33.5 psf (50 Pa). Testing shall occur after rough in and after installation of penetrations of the building envelope, including penetrations for utilities, plumbing, electrical, ventilation and combustion appliances. During testing: (3-20-14)

- i. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed; (3-20-14)
- ii. Dampers shall be closed, but not sealed, including exhaust, intake, makeup air, backdraft and flue dampers; (3-20-14)
- iii. Interior doors shall be open; (3-20-14)

- iv. Exterior openings for continuous ventilation systems and heat recovery ventilators shall be closed and sealed; (3-20-14)
- v. Heating and cooling system(s) shall be turned off; (3-20-14)
- vi. HVAC ducts shall not be sealed; and (3-20-14)
- vii. Supply and return registers shall not be sealed. (3-20-14)
- i. Add the following as section R402.4.1.3 (N1102.4.1.3): Visual inspection option, Building envelope tightness and insulation installation shall be considered acceptable when the items listed in Table R402.4.1.1, applicable to the method of construction, are field verified. Where required by code official an approved party independent from the installer of the insulation shall inspect the air barrier and insulation. (3-20-14)
- j. Delete section 402.4.3 and replace with the following: Fireplaces. New wood-burning fireplaces shall have tight-fitting flue dampers and outdoor combustion air. (4-4-13)
- k. Add the following section: R402.6 (N1102.6) Residential Log Home Thermal Envelope. Residential log home construction shall comply with sections R401 (General), R402.4 (Air Leakage), R402.5 (Maximum Fenestration U-Factor and SHGC), R403.1 (Controls), R403.2.2 (Sealing), R403.2.3 (Building Cavities), sections R403.3 through R403.9 (referred to as the mandatory provisions), Section R404 (Electrical Power and Lighting Systems), and either Subparagraph 004.04.b.i., ii., or iii. as follows: (3-20-14)
  - i. Sections R402.2 through R402.3, R403.2.1, R404.1 and Table R402.6; (4-7-11)
  - ii. Section R405 Simulated Performance Alternative (Performance); or (4-7-11)
  - iii. REScheck (U.S. Department of Energy Building Codes Program). (4-7-11)
- l. Add Table R402.6 (Table N1102.6) Log Home Prescriptive Thermal Envelope Requirements By Component to be used only in accordance with Subparagraph 004.04.b.i. item i. of section R402.6 above to appear as follows:

**TABLE R402.6**  
**LOG HOME PRESCRIPTIVE THERMAL ENVELOPE REQUIREMENTS BY COMPONENT**

For SI: 1 foot = 304.8 mm.

CLIMATE ZONE	FENESTRATION U-FACTOR <sup>a</sup>	SKYLIGHT U-FACTOR	GLAZED FENESTRATION SHGC	CEILING R-VALUE	Min. Average LOG Size in inches	FLOOR R-VALUE	BASEMENT WALL R-VALUE <sup>d</sup>	SLAB R-VALUE & DEPTH <sup>b</sup>	CRAWL SPACE WALL R-VALUE <sup>d</sup>
5, 6 - High efficiency equipment path <sup>c</sup>	0.32	0.60	NR	49	5	30	15/19	10, 4 ft.	10/13
5	0.32	0.60	NR	49	8	30	10/13	10, 2 ft.	10/13
6	0.30	0.60	NR	49	8	30	15/19	10, 4 ft.	10/13

**DIVISION OF BUILDING SAFETY  
APPLICATION FOR REVIEW OF A PROPOSED STATEWIDE AMENDMENT  
TO STATE ADOPTED CODES  
2012 Code Adoption Cycle**

Log# \_\_\_\_\_  
(Office Use Only)

**PLEASE FOLLOW INSTRUCTIONS ON PAGE FIVE**

**1. State Building Code to be Amended:**

- ☐ International Building Code ☒ **International Energy Conservation Code**  
☐ International Residential Code ☐ International Mechanical Code  
☐ International Fuel Gas Code ☐ National Electrical Code  
☐ International Existing Building Code ☐  
☐ Idaho State Plumbing Code ☐

**Section** C101.5 **Page** C-4

**2. Applicant Name (Specific local government, organization or individual):**

Arlan Smith, DBS

**3. Signed:**

**Proponent Title Date**

**4. Designated Contact Person:**

Arlan Smith

**Name Title**

**Address:** DBS, 1090 E. Watertower St., Meridian ID 83642

**Office Phone:** 208.33237123 **Cell:** \_\_\_\_\_ **Fax:** \_\_\_\_\_

**E-Mail address:** arlan.smith@dbs.idaho.gov

**5. Proposed Code Amendment.** Use 'legislative format' including both old and new language. **See instructions on page five for specific details.** Please attach a separate sheet for each separate proposal.

**Code** 2012 IECC **Section** C101.5 **Page** C-4

**Please note number of additional pages:**

Add a new section C101.5.3 to the IECC:

C101.5.3 Industrial, electronic, manufacturing equipment. Buildings or portions thereof that are heated or cooled exclusively to maintain the required operating temperature of industrial, electronic or manufacturing equipment shall be exempt for the provisions of this code. Such buildings or portions thereof shall be separated from connected conditioned space by building thermal envelope assemblies complying with this code.

**Supporting Data for Statewide Amendment Proposals.** This information is required for all statewide amendment proposals. **Attach supporting documentation, as necessary; incomplete proposals will not be accepted.**

The governing boards require supporting data on any amendment proposal to show:

1. That it meets basic criteria – See Part I to specify how this proposal meets the criteria for code amendment.
2. The intended effect—See Part II to describe the purpose of the proposed amendment, including the benefits and the problems addressed.
3. The potential impacts or benefits to business—See Part III/Types of Construction, to explain how methods in construction businesses, industries and services would be affected.
4. The potential impact on enforcement procedures, See Part III/Types of Services Required, to provide some analysis of the impacts on code enforcement in local jurisdictions.

**5. Economic costs and benefits – Use the Table in Part IV of this form to estimate the costs and benefits of the proposal on construction practices, users and/or the public, the enforcement community, and operation and maintenance.**

**Part I Background information on amendment.**

Code References: C101.5 Title: 2012 IECC  
 Related codes: \_\_\_\_\_ (Does this amendment change other related codes?)  
 Proponent: Arlan Smith Phone: 208.332.7123 Date: 6 Mar 2015

**NOTE:** Amendments to the state building code must be based on one of the following criteria; please indicate the pertinent rationale for the proposed amendment by selecting from the list below:

- (1) The amendment is needed to address a critical life/safety need.
- (2) The amendment is needed to address a specific state policy or statute.
- (3) The amendment is needed for consistency with state or federal regulations.
- (4) The amendment is needed to address a unique character of the state.
- (5) The amendment corrects errors and omissions.**

**Part II Amendment Benefit:**

**PROBLEM(S) ADDRESSED** (Describe the intended effect of the proposed code amendment):

**PRIMARY REASON FOR AMENDMENT:** (Describe how the amendment meets one of the criteria listed above)

The equipment in these Industrial, electronic, manufacturing equipment buildings generate significant heat. It is not unusual for them to need cooling even on cold days. Some may not even be provided with a heating system. The conditioning in these buildings is to keep the equipment at operating temperature, not for occupants. Application of the energy code to such buildings does not appear appropriate. Many of these buildings are small modular buildings. DBS recently reviewed a building housing television transmission equipment near Moscow. The building has no heating system. It is about 1,800 square feet in floor area with 30 tons of cooling. The building is exclusively for housing the equipment. These are the types of buildings to which the exemption would apply.

**TYPE OF BENEFITS PROJECTED:**

**Part III Amendment Impacts or Benefits:**

**TYPES OF CONSTRUCTION:** ☐ New Construction ☐ Alteration/Tenant Improvement/Repair

☐ Residential-Single Family ☐ Residential-Multi Family ☐ Commercial ☒ Industrial

**List businesses/industries affected by amendment:**

Manufacturers: Modular Building Manufactures

Specific Construction Contractors & Trades: \_\_\_\_\_

Construction Supply Industry: \_\_\_\_\_

Specialty Trades: \_\_\_\_\_

Types of Buildings: Industrial, electronic, manufacturing equipment Buildings

Fire Protection Industry: \_\_\_\_\_

**Types of Services Required:**

☐ **Reporting:** Brief Description \_\_\_\_\_

☐ **Record Keeping:** Brief Description \_\_\_\_\_

☐ **Other:** Brief Description \_\_\_\_\_

☐ **Indirect Cost to Industry:** Indicate whether there are multiple sources to obtain the equipment, material or service required by this proposal. If not, provide a justification of the benefit versus small business impact.

<b>Part IV Amendment</b>	Construction <sup>1</sup>	Enforcement <sup>2</sup>	Operations & Maintenance <sup>3</sup>
<b>Costs and Benefits</b>			

Building Type	Costs	% impact <sup>4</sup>	Benefits <sup>5</sup>	Costs	% impact	Benefits	Costs	% impact	Benefits
Residential									
Single family									
Multi-family									
Commercial/Retail									
Industrial									
Institutional									

Reduced cost of construction, no increase in cost of operations

**GENERAL INSTRUCTIONS FOR MAKING A CODE CHANGE PROPOSAL:**

1. Check the boxes for the code or codes for which amendments are being proposed.
2. Provide the name of the local government, organization, or individual proposing the code change.
3. Proponent must sign and date the proposal as noted.
4. Provide contact information for the person designated to work with the board(s) and staff to supply information on the proposed changes as needed; please include name, address, phone number and e-mail address.
5. The specific section for which an amendment is proposed should be listed. On a separate sheet of paper the **entire section** should be reproduced, including the existing and the proposed amendatory language.
6. This must be prepared in legislative style formatting. Specifically, when submitting recommended changes to a particular building code, existing provisions in the code proposed for deletion must be shown by using strikethrough. Text proposed to be added must be shown by using underlines. Any separate new sections added should be inserted in the appropriate place in the existing code language in order to continue the established numbering system of the code. If more than one section is proposed for amendment or more than one page is needed for reproducing the affected section of the code, additional pages must be attached.
7. **SUPPORTING DATA REQUIREMENTS FOR ALL STATEWIDE AMENDMENT PROPOSALS:**  
You must attach background information with all statewide amendment proposals. The attached worksheet provides requirements for supporting data. All information will be forwarded to the board(s) as part of the amendment's documentation. Findings and projections from the worksheet will be tabulated to summarize projected benefits and impacts and will be included with staff comments and recommendations. DBS staff may request additional information as needed to clarify any potential impacts, and may perform additional research and analysis as needed when requested by the governing boards.
8. Please send an electronic copy of your completed proposal to DBS staff at:  
[neg.rules@dbb.idaho.gov](mailto:neg.rules@dbb.idaho.gov)

**NOTE: YOU MAY REPRODUCE THIS FORM AND ADD ADDITIONAL PAGES AS NEEDED.**

## **Draft of proposed rule change to permit the use of an “annual permit” for minor alterations to buildings**

A state agency, including universities, will be able to acquire an annual permit under which they could do minor alteration as defined in the rule without taking out a new separate building permit for each incident. We would issue the permit to the agency for the building or campus, not state wide (but maybe for a region). The permit would expire in one year. The agency would request inspections using that permit number. The inspector would record the inspection results and the time spent on the inspection. DBS would periodically bill the agency for those inspections at the hourly rate.

### **IDAPA 07.03.01**

#### **026.DEFINITIONS.**

The terms defined in this section shall have the following meaning for all parts of this chapter, unless the context clearly indicates another meaning:

**06. Minor Alteration.** For the purpose of administering annual permits, minor alterations shall not include: work that alters the fire resistive characteristics of the building or fire suppression systems; work that creates new openings in construction meant to compartmentalize fire such as fire walls, fire barriers, fire partitions, smoke barriers, smoke partitions, horizontal assemblies, shaft enclosures, stair enclosures; work that increases the floor area or height of the building; work that changes the structural load path of the building for gravity or horizontal loads; work that reduces the thermal resistance capacity of the building envelope; changes in the occupancy classification of the building or space; increases in the floor loads. Minor alterations shall include but are not limited to the following: partition walls constructed within a defined room; relocation of or existing openings or installation of new doors and windows in non-load bearing walls that are not in construction meant to compartmentalize fire; window replacement in unaltered existing openings; roof repairs involving installation of less than one hundred square feet of new roof covering; new suspended ceilings that are not required to be fire resistive.

Renumber the defined terms after the new number 06.

#### **027. PERMITS.**

**01. Building Permits.** Building permits shall be obtained from the Division prior to the construction of structures governed by the act or rules promulgated by the Board.



**02. Annual permit.** In lieu of an individual permit for each minor alteration to an already approved building, the division may issue an annual permit upon application therefor to any state agency or state government organization regularly employing one or more qualified trade persons in the building, structure or on the premises or campus owned or operated by the applicant for the permit. The agency to whom an annual permit is issued shall keep a detailed record of alterations made under such annual permit. The division shall have access to such records at all times or such records shall be filed with the division as designated. The permit holder shall request inspections and make the work accessible for inspection as is required in the adopted codes and in this rule.

**029. FEES.**

**08. Fees for annual permits.** A fee for inspections done on annual permits shall be charge at the rate of one hundred dollars (\$100.00) per hour. The division shall bill the agency for annual permits and failure of the agency to pay the fee within sixty (60) days may result in cancellation of the annual permit.

*Renumber the existing 08 and 09*

# IDAHO BUILDING CODE BOARD

## Agenda Item No. 04

## Legislative Update

**PRESENTER:** Steve Keys, Deputy Administrator-Operations

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**OBJECTIVE:** Inform the Board on the status of proposed legislation presented at the 2015 legislature.

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**ACTION:** Informational

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**BACKGROUND:**

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**PROCEDURAL  
HISTORY:**

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**ATTACHMENTS:** No Documentation

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# IDAHO BUILDING CODE BOARD

## Agenda Item No. 05

## Program Manager Report

**PRESENTER:** Arlan Smith, Building Safety Program Manager

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**OBJECTIVE:** Update the Board on the Building program's current activities.

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**ACTION:** Informational

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

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**PROCEDURAL  
HISTORY:**

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**ATTACHMENTS:** No Documentation

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# IDAHO BUILDING CODE BOARD

## Agenda Item No. 06

## Operational Report

**PRESENTER:** Steve Keys, Deputy Administrator-Operations

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**OBJECTIVE:** Provide update on the daily operations of the Building program and division.

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**ACTION:** Informational

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

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### **PROCEDURAL HISTORY:**

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**ATTACHMENTS:** No Documentation

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# IDAHO BUILDING CODE BOARD

## Agenda Item No. 07

## Administrator Report

**PRESENTER:** C. Kelly Pearce, Administrator

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

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**ACTION:** Informational

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

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**PROCEDURAL  
HISTORY:**

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**ATTACHMENTS:** No Documentation

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# IDAHO BUILDING CODE BOARD

## Agenda Item No. 07a

## Financial Report

**PRESENTER:** Fred Sisneros, Financial Manager

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

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**ACTION:** Informational

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

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### **PROCEDURAL HISTORY:**

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**ATTACHMENTS:** Financial Report

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**Division of Building Safety**  
**IDAHO BUILDING CODE FUND 0229-02**  
 Fiscal Year 2015 Financial Statements  
 As of 02/28/2015

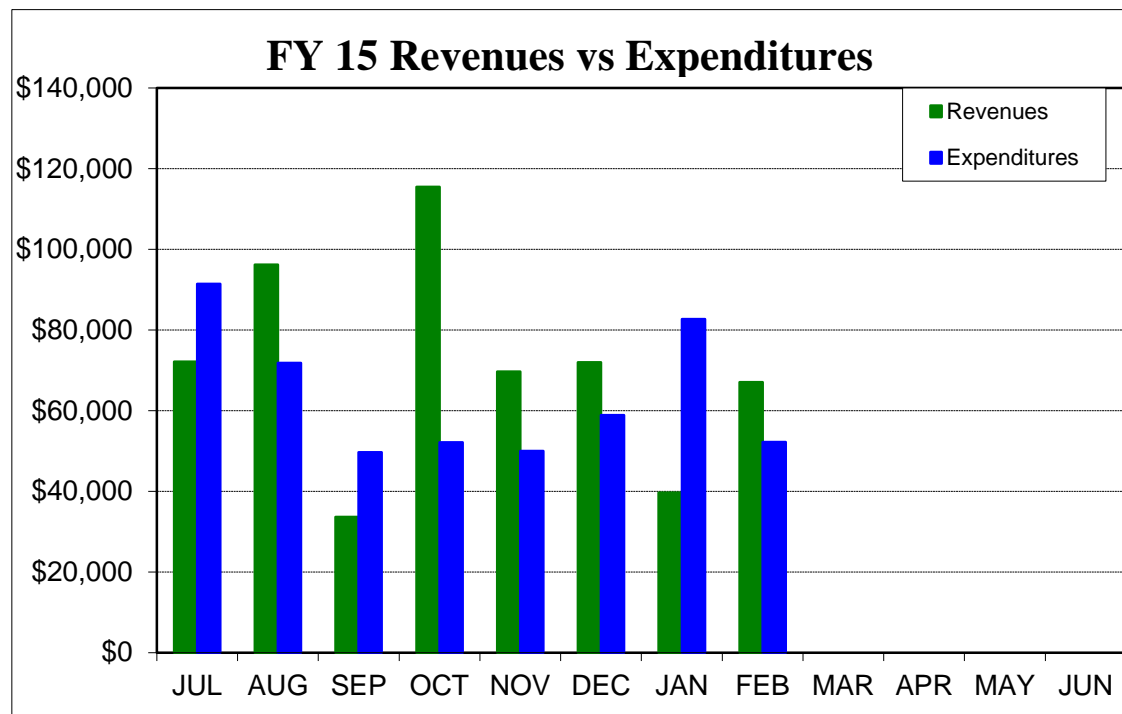
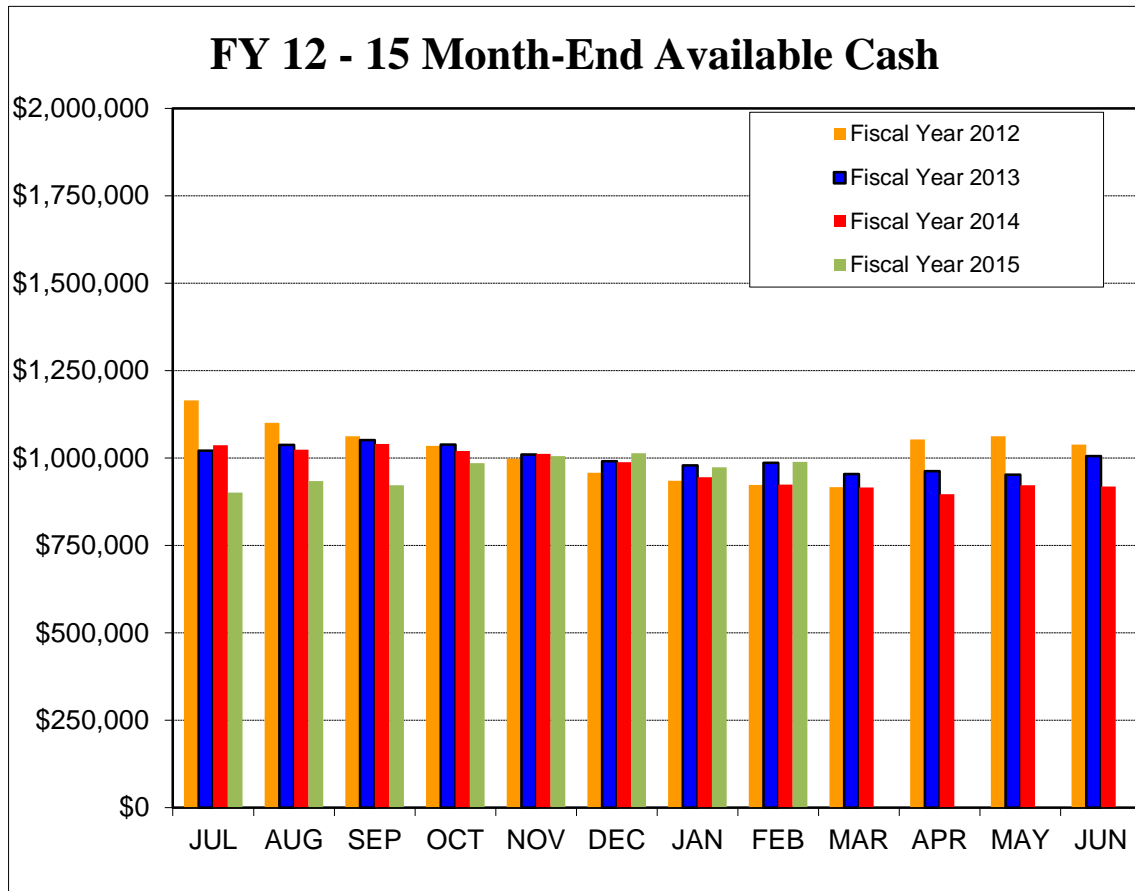
Statement of Revenues and Expenditures

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:	700,000	565,860	80.8%	134,140	270,538	836,398	119.5%
Expenditures							
Personnel:	550,600	377,139	68.5%	173,461	167,617	544,756	98.9%
Operating:	143,100	108,813	76.0%	34,287	47,131	155,945	109.0%
Capital:	28,000	22,960	82.0%	5,040	5,040	28,000	100.0%
Total Expenditures	721,700	508,912	70.5%	212,788	219,789	728,701	101.0%
Net for FY 2015	(21,700)	56,948			50,749	107,697	

Statement of Cash Balance

July 1, 2014 Beginning Cash Available	Fiscal Year to Date Revenues	Fiscal Year to Date Expenditures and Encumbrances	Other Changes in Cash	Available Cash as of February 28, 2015	Projected Change in Cash for Remainder of Year	Projected Year End Available Cash
918,555	565,860	(508,912)	13,204	988,707	50,749	1,039,456

## IDAHO BUILDING CODE FUND 0229-02





## IDAHO BUILDING CODE FUND 0229-02

