

**DIVISION OF BUILDING SAFETY
APPLICATION FOR REVIEW OF A PROPOSED STATEWIDE AMENDMENT
TO STATE ADOPTED CODES
2015 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
<input type="checkbox"/> Idaho State Plumbing Code	

Section: IDAPA 07.03.01, 004, 02 **Pages:** 2-5

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

Idaho Association of Building Officials (IDABO)

3. Signed:

	City of Ammon Building Official	4-14-16
Proponent	Title	Date

4. Designated Contact Person:

Charlie Allen	City of Ammon Boise Building Official
Name	Title

Address: City of Ammon

2135 S. Ammon Road

Ammon, ID 83406

612-4022

Office Phone	Cell	Fax
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E-mail address: callen@cityofammon.us

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	IDAPA 07.03.01, 004, 02	2-5
Code	Section	Pages

Please note number of additional pages: 7

To adopt the 2015 *International Residential Code* and make editorial amendment update changes or deletions to IDAPA 07.03.01, 004, 02, accordingly to align.

See separate attachment for proposed IDAPA rule changes.

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, IDAPA 07.03.01, 004, 02

Title: International Residential Code

Related Codes: IECC

(Does this amendment change other related codes?)

Proponent: Charlie Allen

Phone: 612-4022

Date: 4/14/16

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):

Most of the proposed amendments to the IDAPA rules are only editorial in nature in order to align them with the 2015 edition of the *International Residential Code* (IRC).

For example, amended IRC Table R302.1(1) now needs beneficial footnotes added to the Table. Amendment language is also needed for the IRC Section R302.2 for acceptable townhouse wall separation requirements outlined in the IDAPA rules. The IDAPA rules have IRC Section R501.3 struck from the code but this code section has now changed to R302.13. In proposing the 2015 IRC, some IDAPA rule amendments need some updating or deleting in order to align.

A majority of changes in the 2015 IRC will reduce costs to builders and provide clarification and ease of finding code requirements. An exception to that is the new requirement for the number of king studs next to headers depending on the size of the header needed. An amendment was made to reduce the overly conservative numbers to align with more current framing practices. This was developed by the American Wood Council and has research to back their proposal.

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

With the proposal of adopting the 2015 IRC, there is the need to update or delete some of the IDAPA rule amendments. Doing so will correct errors or omissions to align with the code text.

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
 Construction Supply Industry: _____
 Specialty Trades: _____
 Types of Buildings: Residential - one & two family dwellings and townhouses
 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 ¹			Enforcement ²			Operations & Maintenance ³		
	Co sts	% impact ⁴	Benefits ⁵	Costs	% impact	Benefits	Costs	% impact	Benefits
Residential	Ⓟ	N/A	updated	Ⓟ	N/A	updated	Ⓟ	N/A	updated
Single family	↓	↓	code-rev	↓	↓	code-rev	↓	↓	code-rev
Multi-family	—	—	exceptions	—	—	exceptions	—	—	exception
Commercial/ Retail	—	—	—	—	—	—	—	—	—
Industrial	—	—	—	—	—	—	—	—	—
Institutional	—	—	—	—	—	—	—	—	—

1 \$ / 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.
 2 Cost per project plan. Attach data. Enforcement costs include governmental review of plans, field inspection, and mediated litigation required for enforcement.
 3 Cost to building owner/tenants over the life of the project.
 4 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.
 5 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.

02. **International Residential Code. 2012 2015** Edition with the following amendments: (3-20-14)
- a. Delete exception No. 1 contained under IRC section R101.2 - Scope. (3-20-14)
 - b. Delete exception No. 2 contained under IRC section R101.2 - Scope, and replace with the following: Owner-occupied lodging houses with five (5) or fewer guestrooms shall be permitted to be constructed in accordance with the International Residential Code for One- and Two-family Dwellings. (4-11-15)
 - c. Delete item No. 7 contained under the “Building” subsection of IRC section R105.2 - Work exempt from permit, and replace with the following: Prefabricated swimming pools that are not greater than four (4) feet (one thousand, two hundred nineteen (1219) mm) deep. (4-7-11)
 - d. Add the following item No. 11 at the end of the “Building” subsection of IRC section R105.2 - Work exempt from permit: Flag poles. (3-20-14)
 - e. Delete IRC section R109.1.3 and replace with the following: Floodplain inspections. For construction in areas prone to flooding as established by Table R301.2(1), upon placement of the lowest floor, including basement, the building official is authorized to require submission of documentation of the elevation of the lowest floor, including basement, required in section R322. (3-29-10)
 - f. IRC Table R302.1(1) Exterior Walls -- delete Table R302.1(1) and replace with the following:

**TABLE R302.1(1)
EXTERIOR WALLS**

EXTERIOR WALL ELEMENT		MINIMUM FIRE-RESISTANCE RATING	MINIMUM FIRE SEPARATION DISTANCE
Walls	Fire-resistance rated	1 hour-tested in accordance with ASTM E 119 or UL263 with exposure from both sides	< 3 feet
	Not fire-resistance rated	0 hours	≥ 3 feet
Projections	<u>Not allowed</u>	<u>N/A</u>	<u>< 2 feet</u>
	Fire-resistance rated	1 hour on the underside <u>a,b</u>	≥ 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

(4-11-15)

a. Roof eave fire-resistance rating shall be permitted to be reduced to 0 hours on the underside of the eave if fireblocking is provided from the wall top plate to the underside of the roof sheathing.

b. Roof eave fire-resistance rating shall be permitted to be reduced to 0 hours on the underside of the eave

provided that gable vent openings are not installed.

g. Delete ~~the exception contained under~~ IRC section R302.2 and replace with the following: --
~~Townhouses, and replace with the following two exceptions:~~ (3-25-16)
Townhouses. Each townhouse shall be considered a separate building and shall be separated by fire-resistance-rated wall assemblies in accordance with Item i or ii. as follows:

i. 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. (3-25-16)

ii. 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. (3-25-16)

h. Delete IRC section R302.13 and its exceptions.

~~h. i.~~ 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. (4-11-15)

~~i. j.~~ 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. (3-25-16)

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

~~k. l.~~ 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~~ Delete exception 2. under the exceptions to IRC section R315.3 R315.2.2 Alterations, repairs and additions and replace with the following: 2. Installation, alteration or repairs of ~~noncombustion electrical~~, plumbing or mechanical systems are exempt from the requirements of this section. (3-20-14)

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

~~m. n.~~ Delete IRC section R322.2.2 subparagraph ~~2.21~~, and replace with the following: The total net area of all openings shall be at least one (1) square inch (645 mm²) for each square foot (0.093 m²) 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)

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 Table R602.7.5 Minimum number of full height studs at each end of headers in exterior walls and replace with the following Table;

Table R602.7.5 Minimum Number of Full Height Studs at Each End of Headers in Exterior Walls^a

<u>MAXIMUM HEADER SPAN (feet)</u>	<u>ULTIMATE DESIGN WIND SPEED AND EXPOSURE CATEGORY</u>	
	<u>< 140 MPH, Exposure B or < 130 mph, Exposure C</u>	<u>< 115 mph, Exposure B^b</u>
<u>4</u>	<u>1</u>	<u>1</u>
<u>6</u>	<u>2</u>	<u>1</u>
<u>8</u>	<u>2</u>	<u>1</u>
<u>10</u>	<u>3</u>	<u>2</u>
<u>12</u>	<u>3</u>	<u>2</u>
<u>14</u>	<u>3</u>	<u>2</u>
<u>16</u>	<u>4</u>	<u>2</u>
<u>18</u>	<u>4</u>	<u>2</u>

a. For header spans between those given above, use the minimum number of full-height studs associated with the larger header span.

b. The tabulated minimum number of full-height studs is applicable where jack studs are provided to support the header at each end in accordance with Table R6 02.7.1(1). Where a framing anchor is used to support the header in lieu of a jack stud in accordance with footnote “d” of Table R602.7(1), the minimum number of full-height studs at each end of a header shall be in accordance with requirements for wind speed < 140 mph, Exposure B.

p. 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~~2~~ (Table R402.1.1~~2~~) - Insulation and Fenestration Requirements by Component; (3-20-14)
- ii. ~~Table N1102.1.34 (Table R402.1.34 - 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.~~ ii. Section N1102.4.1 (R402.4.1) Building Thermal Envelope; (3-20-14)
- ~~v.~~ iii. Section N1102.4.1.1 (R402.4.1.1) ~~Insulation Installation;~~ (3-20-14)
- ~~vi.~~ Table N1102.4.1.1 (Table R402.4.1.1) - Air Barrier and Insulation Installation; (3-20-14)
- ~~vii.~~ iv. Section N1102.4.1.2 (R402.4.1.2) Testing Option; (3-20-14)
- ~~viii.~~ v. Add Section N1102.4.1.3 (R402.4.1.3) - Visual Inspection Option; (3-20-14)
- ~~ix.~~ vi. Add Section N1102.6 (R402.6) - Residential Log Home Thermal Envelope; (3-20-14)

*. vii. Add Table N1102.6 (Table R402.6) - Log Home Prescriptive Thermal Envelope Requirements by Component; and (3-20-14)

viii. Add exception to Section N1103.5.3 (R403.5.3) Hot Water Pipe Insulation (Prescriptive)

xi. ~~Section N1104.1 (R404.1) - Lighting Equipment.~~ (3-20-14)

ix. Table N1106.4 (R406.4) Maximum Energy Rating Index

April 14, 2016

To: IDABO Government Affairs Committee

Fr: Teri Ottens, IDABO Staff

Re: Executive Order – Establishing a Federal Earthquake Risk Management Standard

On February 2, 2016, the White House issued an Executive Order applying to the earthquake safety of any “buildings that are owned, leased, financed, or regulated by the Federal Government” (copy of full order is attached). It applies to any construction of a new building or alteration to existing buildings. Section 2(c) of the order defines this as:

(c) Federal Assistance Programs. Each agency assisting in the financing, through Federal grants or **loans, or guaranteeing the financing, through loan or mortgage insurance programs**, of a newly constructed building shall consider updating its procedures for providing the assistance to be consistent with section 3(a) of this order, to assure appropriate consideration of earthquake safety. *(emphasis added)*

It goes on to state how to meet the requirements that the earthquake provisions of the 2015 IBS and IRC must be met:

Sec. 3. Codes, Standards, and Concurrent Requirements.

- (a) Commencing within 90 days after the date of this order, each agency shall ensure that every new building for which the agency has not started programming is in compliance with the earthquake-resistant design provisions of the **2015 editions of the International Building Code (IBC) or the International Residential Code (IRC)**, nationally recognized building codes promulgated by the International Code Council (ICC), or equivalent codes, consistent with the provisions of and to the extent required by 40 U.S.C. 3312. When the ICC releases a new version of the IRC or IBC, each agency that constructs buildings shall determine whether the **new version** is a nationally recognized code for the purposes of 40 U.S.C. 3312(b), as expeditiously as practicable, but **not later than 2 years** after the release of the new version. If an agency determines that a new version is a nationally recognized code, it shall ensure that any building, for which the agency has not started programming, shall be in compliance with that new version or an equivalent code.

This Order gives federal agencies 90 days to comply. It applies to all federal programs including loans, or guaranteeing the financing, leasing, mortgage insurance programs, as well as disaster relief. This definition includes the following:

- VA, FHA and other federally funded guaranteed loans
- Federal insurance programs, such as flood insurance
- Disaster relief (although Section 8 (d) makes it clear it does not apply to emergency work essential to save lives and protect property or temporary housing

assistance in a disaster. It does apply in a “declared major disaster or emergency when assistance actions involve new construction or alterations to an existing building.

The International Code Council’s Government Affairs Committee feels that if a jurisdiction does not have the earthquake provisions of the 2015 IBC and IRC in place that will put federal loans and grants at risk of not being available as funding sources for Idahoans.

Conclusion:

It is IDABO’s belief that delay in adoption of the 2015 IBC and IRC with the required earthquake provisions will jeopardize funding sources for new and existing buildings and homes in Idaho. Federal loan and insurance programs cannot be made available for financing residential properties and could significantly impact the citizens of Idaho, particularly the low income and veterans. It will have major impact if a disaster is declared in a jurisdiction without current codes. It will have major impact on private property owners who lease to the federal government.

And while there is the possibility of a proposal to just adopt the specific earthquake regulations throughout both codes it would make a complicated and unwieldy adoption process and add confusion for the public, designers, builders and code officials on the use and enforcement of the codes.

Recommendation:

It appears that in order to avoid questions of federal programs being applied in Idaho, the State of Idaho needs to adopt both the 2015 IBC and IRC in full as quickly as the process will allow and to set up a system that allows for the state and its jurisdictions to stay on track in adopting all new versions of the code within 2 years after the release of that version of the code.

Note: We are currently seeking opinions from affected state agencies on how they will handle this Order.

A copy of the full executive order is available upon request.