



# Code Amendment Proposal Application

**Department of Consumer & Business Services**  
**Building Codes Division**  
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<b>STAFF USE ONLY</b>	
Application no.:	
<b>Alternate Method</b>	
<input type="checkbox"/>	Approved
<input type="checkbox"/>	Denied

**Instructions:** Fill in all the following information, attach any supplementary information you relied on, and mail to the address listed above. For more information, please refer to the Building Codes Division Web site, bcd.oregon.gov.

APPLICANT INFORMATION			
Name: <b>SEAO</b>		Date:	
Representing: <b>SEAO</b>		Phone:	
Address (street or P.O. Box):		Fax:	
City:	State:	ZIP:	
E-mail address:			
PROPOSED CODE LANGUAGE			
This proposed code amendment (check one):			
<input checked="" type="checkbox"/> <b>Amends</b> (code, edition, section): <b>IEBC 101.5.4.2</b>			
<input type="checkbox"/> <b>Adopts a new section</b> (code, edition): _____			
<input type="checkbox"/> <b>Repeals</b> (code, edition, section): _____			

You must provide language for review by the division. Failure to provide language will invalidate the application.

Please use the following format to show additions and deletions from the code — strike through ~~deleted text~~, underline and bold **new text**.

Use arrow keys to advance to the next text box.

**Proposed language:**

**101.5.4.2 Compliance with reduced IBC level seismic forces.** Where seismic evaluation and design is permitted to meet reduced International Building Code seismic force levels, the procedures used shall be in accordance with one of the following:

1. The International Building Code using 75 percent of the prescribed forces. Values of R,  $\Omega_0$  and  $C_d$  used for analysis shall be as specified in Section 101.5.4.1 of this code.
2. ~~Structures or portions of structures that comply with the requirements of the applicable chapter in Appendix A as specified in Items 2.1 through 2.5 shall be deemed to comply with this section.~~
  - 2.1 ~~The seismic evaluation and design of unreinforced masonry bearing wall buildings in Occupancy Category I or II are permitted to be based on the procedures specified in Appendix Chapter A1.~~
  - 2.2 ~~Seismic evaluation and design of the wall anchorage system in reinforced concrete and unreinforced masonry wall buildings with flexible diaphragms in Occupancy Category I or II are permitted to be based on the procedures specified in Chapter A2.~~
  - 2.3 ~~Seismic evaluation and design of cripple walls and sill plate anchorage in residential buildings of light frame wood construction in Occupancy Category I or II are permitted to be based on the procedures specified in Chapter A3.~~
  - 2.4 ~~Seismic evaluation and design of soft, weak or open front wall conditions in multiunit residential buildings of wood construction in Occupancy Category I or II are permitted to be based on the procedures specified in Chapter A4.~~



2.5 Seismic evaluation and design of concrete buildings and concrete with masonry infill buildings in all occupancy categories are permitted to be based on the procedures specified in Chapter A5.

3. Compliance with ASCE 31 based on the applicable performance level as shown in Table 101.5.4.2. It shall be permitted to use the BSE-1 earthquake hazard level as defined in ASCE 41 and subject to the limitations in Item 4 below.

2.4. Compliance with ASCE 41 using the BSE-1 Earthquake Hazard Level and the performance level shown in Table 101.5.4.2. The design spectral response acceleration parameters  $S_{XS}$  and  $S_{X1}$  specified in ASCE 41 shall not be taken less than 75 percent of the respective design spectral response acceleration parameters  $S_{DS}$  and  $S_{D1}$  defined by the International Building Code.

**A building that is evaluated and determined to meet ASCE 31 based on the applicable performance levels as shown in Table 101.5.4.2 is considered to be compliant with reduced IBC level forces.**

**Table 101.5.4.2  
PERFORMANCE CRITERIA FOR REDUCED IBC LEVEL SEISMIC FORCES**

OCCUPANCY CATEGORY (Based on IBC Table 1604.5)	PERFORMANCE LEVEL FOR USE WITH ASCE 31	PERFORMANCE LEVEL FOR USE WITH ASCE 41 BSE-1 EARTHQUAKE HAZARD LEVEL
I	Life safety (LS)	Life safety (LS)
II	Life safety (LS)	Life safety (LS)
III	Note a, <b>Note b</b>	Note a
IV	Immediate occupancy (IO)	Immediate occupancy (IO)

a. Performance levels of Occupancy Category III shall be taken as halfway between performance levels specified for Occupancy Categories II and IV.

**a. Acceptance criteria for Occupancy Category III shall be taken as 80 percent of the acceptance criteria specified for Occupancy Category II performance levels, but need not be less than the acceptance criteria specified for Occupancy Category IV performance levels.**

**b. For Occupancy Category III, the ASCE 31 screening phase checklists shall be based on the life safety performance level.**

## APPLICATION CRITERIA

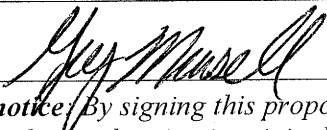
Attach to this application written responses to the following questions. If needed, include in the response an explanation as to why a question does not apply to your proposed code amendment. The division may reject an incomplete application.

### Questions:

1. Is your proposed code amendment necessary to correct any unforeseen or probable outcomes resulting from the application of a code section, and if so, why? **Yes. The proposed amendment removes the reference to methods contained in older documents and replaces them with more modern consensus-based upgrade and evaluation procedures. Further, it corrects errors in the code and incorporates ICC issued errata.**
2. Is your proposed code amendment needed to protect the health, safety, welfare, comfort, and security of occupants and the public, and if so, why? **No.**
3. Does your proposed code amendment correct inadequate application by a code section to a method, material, or design, and if so, how? **Yes. The proposed amendment removes the reference to methods contained in older documents and replaces them with more modern consensus-based upgrade and evaluation procedures.**
4. Is your proposed code amendment necessary to correct unique geographic or climatic conditions within Oregon, and if so, why? **No.**
5. Is your proposed code amendment needed to eliminate conflicting, obsolete, or duplicative code provisions or standards among Oregon-adopted codes, statutes, or regulations, and if so, why? **No.**
6. Does your proposed code amendment work to conserve scarce resources, and if so, how? **No.**
7. Does your proposed code amendment provide for the use of unique or emerging technologies or promote advances in construction methods, devices, materials, and techniques, and if so, how? **Yes. The proposed amendment removes the reference to methods contained in older documents and replaces them with more modern consensus-based upgrade and evaluation procedures. It further removes the reference to ASCE 31 as an "upgrade" document because ASCE 31 is actually an "evaluation" document.**
8. Does your proposed code amendment meet any energy conservation or indoor air quality requirements, and if so, how? **No.**
9. Does your proposed code amendment involve the adoption of an electrical or plumbing building product? If an electrical or plumbing building product is involved, note if the appropriate board approved the product. **No.**
10. Does your proposed code amendment create any adverse fiscal impact or cost savings for the general public, the construction industry, local and state governments, or small businesses? If so, please describe the added or reduced cost of the proposed code amendment, the adverse fiscal impact or cost savings in relation to the current Oregon specialty code, and any standards of measure used to arrive at the result given. **No impact as this amendment carries forward the existing amendment to the 2006 IEBC (currently statewide alternate method No. OSSC 08-05). In addition, under the 2009 IBC the IEBC provisions are only an alternate compliance method, IBC Chapter 34 may still be used.**
11. If your proposed code amendment relates to the development of a 6,000-square-foot parcel and the construction of a 1,200-square-foot detached single-family dwelling on that parcel, please provide information to assist the division in preparing a housing cost impact statement. **No impact as this amendment carries forward the existing amendment to the 2006 IEBC (currently statewide alternate method No. OSSC 08-05). In addition, under the 2009 IBC the IEBC provisions are only an alternate compliance method, IBC Chapter 34 may still be used.**

## APPLICANT SIGNATURE

Signature:



Date: 5/20/09

*Copyright notice: By signing this proposed code amendment application, I understand and acknowledge that the work contained in this application is original, or if not original, I have the right to copy the work. By signing this work, I understand that any rights I may have in this work, including any form of derivative works and compilations, are assigned to the Department of Consumer and Business Services. I also understand that I do not retain or acquire any rights once this work is used in a Department of Consumer and Business Services publication.*