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 Telephone: 415-781-1505 Facsimile: 415-781-2718
 Signature: * *John W. Laws*

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807.1 Gravity loads. Buildings or portions thereof subject to a change of occupancy where such change in the nature of occupancy results in higher uniform or concentrated loads based on *International Building Code* Tables 1607.1 and 1607.6, shall comply with the gravity load provisions of the *International Building Code*.

Exceptions: Structural elements whose force stress is not increased by more than 5 percent.

Reason: Editorial.

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707.4 Minimum design loads. The minimum design loads for the structure shall may be the loads applicable at the time the building was constructed, provided that no overstressed condition is created under actual loads.

Reason: Clarification. Actual loads may exceed original design loads.

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903.1 Compliance with *International Building Code*. Additions to existing buildings or structures are new construction and shall comply with the *International Building Code* as specified in Section 407.1.1.2.

Reason: Clarification to refer to Section where "*Compliance with International Building Code*" is defined.

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407.1.1.3 Reduced IBC level seismic forces - When seismic forces are ~~allowed~~ required to meet reduced International Building Code levels, they shall be based upon 75% of the assumed forces prescribed in the International Building Code, applicable chapters in Appendix A of this code (GSREB), the applicable performance level of ASCE 31 ~~xx~~ as shown in Table 407.1.1.2, or the applicable performance level of FEMA 356 shown in Table 407.1.1.2.

Reason: Editorial. Use of Reduced IBC level seismic is "allowed". xx is deleted from ASCE31. The reference is to current edition when published.

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407.1.1 Seismic evaluation and design. Seismic evaluation and design of an existing building and its components shall be based upon the assumed forces related to the response of the structure to earthquake motions.

Reason: An existing building must be evaluated prior to beginning the design procedure. This clarifies that the same assumed forces are used for both analysis and design of the existing building and its components.

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407.1.1.1 Evaluation and design procedures. The seismic evaluation and design of existing buildings shall be based upon the procedures specified in the International Building Code, Appendix A of this code (GSREB), ASCE 31 ~~xx~~ or FEMA 356.

Reason: The procedures listed are for both seismic evaluation and design. xx is deleted from ASCE 31. The reference is to the current edition when published.

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407.1.1.2 IBC level seismic forces. When seismic forces are required to meet the International Building Code level, they shall be based on 100% of the values in the International Building Code or FEMA 356. Where FEMA 356 is used, the FEMA 356 Basic Safety Objective (BSO) shall be used for buildings in Seismic Use Group 1. ~~For buildings in other seismic use groups the applicable FEMA 356 performance levels shown in Tables 407.1.1.2 for BSE 1 and BSE 2 Earthquake Hazard Levels shall be used. For buildings in Seismic REWRITE Use Group II, the applicable performance levels shall be j and p as shown in Table C1-1 of FEMA 356. For buildings in Seismic Use Group III, the Operational Building Performance Level (1-A) Para. 1.5.3.1 of FEMA 356 shall be attained.~~

Reason:

The description of damage control and building performance levels given in Table C1-1 are correlated with the Seismic Use Groups of the IBC. The Operational Building Performance Level of FEMA 356 combines analyses and design of Immediate Occupancy Structural Performance Level with Operational Nonstructural Performance Level as described in Para. 1.5, 3.1 of FEMA 356 to approximate the goal of Seismic Use Group III provisions in the IBC.

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407.3.1 New structural frame members. New structural frame members, as defined in Chapter 2, used in the repair of damaged buildings, including anchorage and connections, shall comply with the *International Building Code*.

Reason: *Clarification same as one shown in 407.3.3*

Exception: For the design of new structural frame members added and connected to existing structural frame members, the use of reduced *International Building Code* level seismic forces as specified in Section 407.1.1.3 shall be permitted.

Reason: *Clarification to show that exception applies to added members and not replaced members covered in 407.2*

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407.3.2.1.1 Extent of repair.

Exception: The seismic design level for the repair design shall be the higher of Building Code in effect at the time of original construction and The use of reduced International Building Code level seismic forces as specified in Section 407.1.1.3 shall be permitted in the design of the repair.

Reason: This is to prevent reduction of seismic resistance capacity to below what was existed prior to damage, such as newer buildings constructed according to Building Codes with requirements higher than reduced 75% (e.g. after 1976)

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Table 407.1.1.2
 Revise title as noted and delete entire existing table and notes. Substitute revised Table 407.1.1.2

Reason: The concept of the IEBC is that a reduced seismic hazard may be used for certain mandatory seismic rehabilitation requirements. This concept is specifically contained in the GSREB and in ASCE 31. This concept is not specifically included in FEMA 356. The use of three-quarters of current code forces was adopted by the GSREB, FEMA 178 and ASCE 31 in their development. The GSREB refers to the current IBC for the basic design forces. ASCE 31 also refers to the IBC procedure for determining basic analysis forces. Chapter 1 of the GSREB is limited in its use to Seismic Use Group 1 when Seismic Design Categories C, D, E and F are required by seismic hazard mapping. ASCE 31 has only two Seismic Use Groups, Life Safety and Immediate Occupancy. The descriptions of these titles are closely related to Seismic Use Groups 1 and 2. ASCE 31 and FEMA 356 combines Immediate Occupancy Performance Level and analyses and rehabilitation of Non-structural items and systems for near-conformance with Operational Performance Level.

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ASCE 31 uses checklists for quick check that are related to Low, Moderate and High Seismic Hazard. The proposed Table 407.1.1.2 uses Seismic Design Categories of A and B, C and D, E, F as a close approximation of the ASCE 31 categories.

Table 407.1.12 uses the matrix of Table C1-1 of FEMA 356 and the use of a more probable earthquake ground motion, 20% probability of exceedence in a 50 year exposure period, for analysis and rehabilitation when the IBC allows reduced IBC level seismic forces. The spectrum of the 20%/50 year ground motion is approximately 72%, 64% and 55% of the BSE-1 earthquake ground motion used in FEMA 356 in California, Pacific Northwest, Intermountain and Central-Eastern United States zones respectively. The concept of FEMA 356 as described in the definition of the Basic Safety Option is followed in that the BSE-1 earthquake ground motion must be considered for the Performance Level of the immediate lesser Seismic Occupancy Group. This is Collapse Prevention for Life-Safety, Life-Safety for Immediate Occupancy and Immediate Occupancy for Operational Performance.

This variation of degree of reduction of seismic hazard between the Pacific Coast and the Atlantic Coast can be reconciled with the concept of use of a reduced seismic loading. The IBC uses two-thirds of MCE as code level forces. FEMA 356 uses the lesser of two-thirds of MCE or a 10%/50 year ground motion. The requirement that a two ground motion analysis and design criteria must be used in the application of FEMA 356 may commonly result in that the reduction of design level forces is obtained by the greater "m" factors used for the second part of the criteria. The "m" factors for Immediate Occupancy Performance Level are less than that specified for the Life-Safety Performance Level.

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International Conference of Building Officials
 5360 Workman Mill Road
 Whittier, CA 90601-2298
 562/699-0541 • Facsimile: 562/699-4522

Southern Building Code Congress International
 900 Montclair Road
 Birmingham, AL 35213
 205/591-1853 • Facsimile: 205/596-7001

TABLE 407.1.1.2

IBC SEISMIC USE GROUP EQUIVALENTS TO FEMA 356, GSREB AND ASCE 31-XX PERFORMANCE LEVELS (NOTE 4):

Seismic Use Group (Based on IBC Table 1604.5)	Seismic Design Category A & B	Seismic Design Category C	Seismic Design Categories D, E & F
I and IV	GSREB, ASCE 31 Life Safety Performance Level, FEMA 356 Rehabilitation Objectives g and I of Table C1-1	GSREB, ASCE 31 Life Safety Performance Level, FEMA 356 Rehabilitation Objectives g and I of Table C1-1	GSREB, ASCE 31 Life Safety Performance Level, FEMA 356 Rehabilitation Objectives g and I of Table C1-1
	GSREB, ASCE 31 Immediate Occupancy Performance Level, FEMA 356 Rehabilitation Objectives f and k of Table C1-1	GSREB, except Chap. 1 ASCE 31 Immediate Occupancy Performance Level, Tier 2 required, FEMA 356 Rehabilitation Objectives f and k of Table C1-1	GSREB, except Chap. 1 ASCE 31 Immediate Occupancy Performance Level, Tier 2 required, FEMA 356 Rehabilitation Objectives f and k of Table C1-1
	GSREB, ASCE 31 Immediate Occupancy Performance Level, Tier 2 Required, FEMA 356 Rehabilitation Objectives e and j of Table C1-1	GSREB, except Chap. 1 ASCE 31 Immediate Occupancy Performance Level, Tier 3 required, FEMA 356 Rehabilitation Objectives e and j of Table C1-1	GSREB, except Chap. 1 ASCE 31 Immediate Occupancy Performance Level, Tier 3 required, FEMA 356 Rehabilitation Objectives e and j of Table C1-1
II	GSREB, ASCE 31 Immediate Occupancy Performance Level, FEMA 356 Rehabilitation Objectives f and k of Table C1-1	GSREB, except Chap. 1 ASCE 31 Immediate Occupancy Performance Level, Tier 2 required, FEMA 356 Rehabilitation Objectives f and k of Table C1-1	GSREB, except Chap. 1 ASCE 31 Immediate Occupancy Performance Level, Tier 2 required, FEMA 356 Rehabilitation Objectives f and k of Table C1-1
III	GSREB, ASCE 31 Immediate Occupancy Performance Level, Tier 2 Required, FEMA 356 Rehabilitation Objectives e and j of Table C1-1	GSREB, except Chap. 1 ASCE 31 Immediate Occupancy Performance Level, Tier 3 required, FEMA 356 Rehabilitation Objectives e and j of Table C1-1	GSREB, except Chap. 1 ASCE 31 Immediate Occupancy Performance Level, Tier 3 required, FEMA 356 Rehabilitation Objectives e and j of Table C1-1



Office Use Only

Log No. _____ Code Change No. _____

ICC PROPOSED CODE CHANGE
 (SEE SUBMITTAL PROCEDURES ON REVERSE SIDE)

Name: John W. Laws Jurisdiction/Company: Existing Buildings Committee
 Submitted on behalf of: Structural Engineers Association of California
 Address: 120 Montgomery Street City, State, Zip: San Francisco, CA 94104
 Telephone: 415-781-1505 Facsimile: 415-781-2718
 Signature: * *John W. Laws*

*I hereby grant the International Code Council the nonexclusive, royalty-free rights, including nonexclusive, royalty-free rights in copyright, in this proposal and I understand that I acquire no rights in any publication of the International Code Council in which this proposal in this or another similar analogous form is used. I hereby attest that I have the authority and I am empowered to grant this copyright release.

- Code:
- | | |
|---|--|
| <input checked="" type="checkbox"/> International Building Code | <input checked="" type="checkbox"/> International Existing Building Code |
| <input type="checkbox"/> International Energy Conservation Code | <input type="checkbox"/> International One and Two Family Dwelling Code |
| <input type="checkbox"/> International Fire Code | <input type="checkbox"/> International Plumbing Code |
| <input type="checkbox"/> International Fuel Gas Code | <input type="checkbox"/> International Private Sewage Disposal Code |
| <input type="checkbox"/> International Mechanical Code | <input type="checkbox"/> International Property Maintenance Code |
| | <input type="checkbox"/> International Residential Code <input type="checkbox"/> International Zoning Code |

Revision to: Section Table Figure: _____

Revise as follows: Add new text as follows: Delete and substitute as follows: Delete without substitution:

Show the proposed change in accordance with the format indicated on the reverse side of this form.
 Line through text to be deleted: Underline text to be added.

305.1 Scope. Level 3 alterations apply where the work area exceeds 50% of the aggregate building area of the building as defined in the International Building Code.

Reason: "Aggregate area of the building" is not defined in the document. Building area is defined in the International Building Code and the IBC definition appears to apply in this reference.

Send submittal to the appropriate organization in accordance with procedures on next page.

Building Officials and Code Administrators
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