

## PROPOSAL 7-1R (2009)

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### SCOPE: Part 1 of the 2009 Provisions

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#### PROPOSAL FOR CHANGE:

##### 1) Add to Provisions Part I the following Section amending ASCE 7-05 Section 11.1.2:

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2 **11.1.2 Scope.** Every structure, and portion thereof, including nonstructural components, shall be  
3 designed and constructed to resist the effects of earthquake motions as prescribed by the seismic  
4 requirements of this standard. Certain nonbuilding structures, as described in Chapter 15, are  
5 also within the scope and shall be designed and constructed in accordance with the requirements  
6 for Chapter 15. Requirements concerning alterations, additions, and change of use are set forth in  
7 Appendix 11B. Existing structures and alterations to existing structures need only comply with  
8 the seismic requirements of this standard where required by Appendix 11B. The following  
9 structures are exempt from the seismic requirements of this standard:

- 10  
11 1. Detached one- and two-family dwellings that are located where the mapped, short period,  
12 spectral response acceleration parameter,  $S_s$ , is less than 0.4 or where the Seismic Design  
13 Category determined in accordance with Section 11.6 is A, B or C.
- 14 2. ~~Dwellings of wood-frame construction~~ ~~Detached one- and two-family wood-framed~~  
15 ~~dwellings not included in exception 1 with not more than two stories~~, satisfying the  
16 limitations of and constructed in accordance with the International Residential Code IRC.
- 17 3. Buildings of wood-frame construction satisfying the limitations of and constructed in  
18 accordance with Section 2308 of the International Building Code.
- 19 ~~3.~~ 4. Agricultural storage structures that are intended only for incidental human occupancy.
- 20 ~~4.~~ 5. Structures that require special consideration of their response characteristics and  
21 environment that are not addressed in Chapter 15 and for which other regulations provide  
22 seismic criteria, such as vehicular bridges, electrical transmission towers, hydraulic  
23 structures, buried utility lines and their appurtenances, and nuclear reactors.

#### Commentary

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25 Item 2 recognizes that the wood-frame seismic design requirements of the IRC substantially  
26 meet the intent of conventional construction (wood-frame) provisions included in the NEHRP  
27 Provisions through the 2003 Edition.

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29  
30 Item 3 recognizes that wood-frame seismic design requirements of IBC Section 2308  
31 substantially meet the intent of conventional construction (wood-frame) provisions included in  
32 the NEHRP Provisions through the 2003 Edition.

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35 It is not acceptable to use a combination of IRC and IBC conventional construction provisions.

1 Conventional requirements of either the IBC or IRC can be combined with engineered design of  
2 elements in accordance with the IBC engineered design requirements. Elements designed using  
3 the IBC engineered design requirements are not exempt from the seismic requirements of ASCE  
4 7.

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6 **2) Delete From Provisions Part I the attached 2003 Provisions**  
7 **Section 12.4 (Retained in PUC Ballot 1):**

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9 **REASON FOR PROPOSAL:**

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11 Ballot PUC-1 adopted ASCE 7-05 as the basis of the 2008 Provisions, with several exceptions.  
12 As one of the exceptions, the conventional light-frame construction provisions in Section 12.4 of  
13 the 2003 Provisions were retained as a place holder. This was done in order to allow TS7 to take  
14 a look at whether the provisions continued to be necessary, and in what form. TS7 has now had  
15 an opportunity to discuss these provisions and has concluded that 1) the IBC has substantially  
16 incorporated the provisions, 2) the bracing provisions in the IRC have moved substantially  
17 beyond the Section 12.4 provisions, and 3) the wood-frame provisions of the IRC and IBC  
18 substantially meet the intent of the conventional construction provisions included in the NEHRP  
19 Provisions through the 2003 Edition. For these reasons, it is no longer necessary that the Section  
20 12.4 provisions be maintained.

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22 TS7 suggests, however, that the references in ASCE 7 Section 11.1.2 be revised to reflect the  
23 scope of the IBC/IRC provisions. Commentary is provided clarifying requirements for mixed  
24 design methods; mixed methods are specifically permitted by the IBC and IRC.

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26 It was decided that referencing cold-formed steel, concrete and masonry provisions in the IRC  
27 was beyond the expertise of the TS7 committee, and would need to be pursued by others.  
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