

1 **CONSTRUCTION CODE REVISIONS**

2 2012 GENERAL SESSION

3 STATE OF UTAH

4 **Chief Sponsor: Gage Froerer**

5 Senate Sponsor: J. Stuart Adams

7 **LONG TITLE**

8 **General Description:**

9 This bill modifies a provision amending the state construction code.

10 **Highlighted Provisions:**

11 This bill:

- 12 ▶ modifies a provision requiring an engineer evaluation of certain buildings built
- 13 before 1975;
- 14 ▶ temporarily eliminates a requirement that the evaluation occur when the building is
- 15 undergoing reroofing or an alteration of or repair to certain features; and
- 16 ▶ replaces that requirement with a temporary requirement that the evaluation occur
- 17 when the building is undergoing structural alterations or repairs, and specifies what
- 18 is not included in structural alterations or repairs.

19 **Money Appropriated in this Bill:**

20 None

21 **Other Special Clauses:**

22 None

23 **Utah Code Sections Affected:**

24 AMENDS:

25 **15A-3-113**, as enacted by Laws of Utah 2011, Chapter 14

27 *Be it enacted by the Legislature of the state of Utah:*

28 Section 1. Section **15A-3-113** is amended to read:

29 **15A-3-113. Amendments to Chapters 32 through 35 of IBC.**

30 (1) A new section IBC, Section 3401.6, is added as follows: "3401.6 Parapet bracing,
31 wall anchors, and other appendages. ~~[Buildings]~~ Until June 30, 2014, a building constructed
32 before 1975 shall have parapet bracing, wall anchors, and appendages such as cornices, spires,
33 towers, tanks, signs, statuary, etc. evaluated by a licensed engineer when [said] the building is
34 undergoing [reroofing, or alteration of or repair to said feature. Such parapet] structural
35 alterations, which may include structural sheathing replacement of 10% or greater, or other
36 structural repairs. Reroofing or water membrane replacement may not be considered a
37 structural alteration or repair for purposes of this section. Beginning July 1, 2014, a building
38 constructed before 1975 shall have parapet bracing, wall anchors, and appendages such as
39 cornices, spires, towers, tanks, signs, statuary, etc. evaluated by a licensed engineer when the
40 building is undergoing a total reroofing. Parapet bracing, wall anchors, and appendages
41 required by this section shall be evaluated in accordance with 75% of the seismic forces as
42 specified in Section 1613. When allowed by the local building official, alternate methods of
43 equivalent strength as referenced in an approved code under Utah Code, Subsection
44 15A-1-204(6)(a), will be considered when accompanied by engineer-sealed drawings, details,
45 and calculations. When found to be deficient because of design or deteriorated condition, the
46 engineer's recommendations to anchor, brace, reinforce, or remove the deficient feature shall be
47 implemented.

48 Exceptions:

- 49 1. Group R-3 and U occupancies.
- 50 2. Unreinforced masonry parapets need not be braced according to the above stated provisions
51 provided that the maximum height of an unreinforced masonry parapet above the level of the
52 diaphragm tension anchors or above the parapet braces shall not exceed one and one-half times
53 the thickness of the parapet wall. The parapet height may be a maximum of two and one-half
54 times its thickness in other than Seismic Design Categories D, E, or F."

55 (2) IBC, Section 3408.4, is deleted and replaced with the following: "3408.4 Change in
56 Occupancy. When a change in occupancy results in a structure being reclassified to a higher
57 Occupancy Category (as defined in Table 1604.5), or when such change of occupancy results in

58 a design occupant load increase of 100% or more, the structure shall conform to the seismic
59 requirements for a new structure.

60 Exceptions:

61 1. Specific seismic detailing requirements of this code or ASCE 7 for a new structure shall not
62 be required to be met where it can be shown that the level of performance and seismic safety is
63 equivalent to that of a new structure. Such analysis shall consider the regularity, overstrength,
64 redundancy, and ductility of the structure within the context of the existing and retrofit (if any)
65 detailing providing. Alternatively, the building official may allow the structure to be upgraded
66 in accordance with referenced sections as found in an approved code under Utah Code,
67 Subsection 15A-1-204(6)(a).

68 2. When a change of use results in a structure being reclassified from Occupancy Category I or
69 II to Occupancy Category III and the structure is located in a seismic map area where SDS is
70 less than 0.33, compliance with the seismic requirements of this code and ASCE 7 are not
71 required.

72 3. Where design occupant load increase is less than 25 occupants and the Occupancy Category
73 does not change."

74 (3) In IBC, Section 3411.1, the exception is deleted and replaced with the following:
75 "Exception: Type B dwelling or sleeping units required by Section 1107 of this code are not
76 required to be provided in existing buildings and facilities unless being altered or undergoing a
77 change of occupancy classification."

78 (4) The following referenced standard is added under NFPA in IBC, Chapter 35:

79

"Number	Title	Referenced in code section number
80 720-09	Standard for the Installation of Carbon Monoxide (CO) Detection and Warning Equipment	907.9"

81 (5) The following referenced standard is added under UL in IBC, Chapter 35:

82

"Number	Title	Referenced in code section number
83 2034-2008	Standard of Single- and Multiple-station Carbon Monoxide Alarms	907.9"

84 (6) In IBC, Chapter 35, NFPA referenced standard 10-07 is deleted and replaced with
 85 the following:

86

"Number	Title	Referenced in code section number
87 10-10	Portable Fire Extinguishers	906.2, 906.3.2, 906.3.4, Table 906.3(1), Table 906.3(2)"

88 (7) In IBC, Chapter 35, NFPA referenced standard 11-05 is deleted and replaced with
 89 the following:

90

"Number	Title	Referenced in code section number
91 11-10	Low Expansion Foam	904.7"

92 (8) In IBC, Chapter 35, NFPA referenced standard 12-05 is deleted and replaced with
 93 the following:

94

"Number	Title	Referenced in code section number
95 12-08	Carbon Dioxide Extinguishing Systems	904.8, 904.11"

96 (9) In IBC, Chapter 35, NFPA referenced standard 12A-04 is deleted and replaced with
 97 the following:

98

"Number	Title	Referenced in code section number
99 12A-09	Halon 1301 Fire Extinguishing Systems	904.9"

100 (10) In IBC, Chapter 35, NFPA referenced standard 13-07 is deleted and replaced with
 101 the following:

102

"Number	Title	Referenced in code section number
13-10	Installation of Sprinkler Systems	708.2, 903.3.1.1, 903.3.2, 903.3.5.1.1, 903.3.5.3, 904.11, 905.3.4, 907.6.3, 1613.3"

103

104 (11) In IBC, Chapter 35, NFPA referenced standard 13D-07 is deleted and replaced
105 with the following:

106

"Number	Title	Referenced in code section number
13D-10	Installation of Sprinkler Systems in One- and Two-family Dwellings and Manufactured Homes	903.3.1.3, 903.3.5.1.1"

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108 (12) In IBC, Chapter 35, NFPA referenced standard 13R-07 is deleted and replaced
109 with the following:

110

"Number	Title	Referenced in code section number
13R-10	Installation of Sprinkler Systems in Residential Occupancies Up to and Including Four Stories in Height	903.3.1.2, 903.3.5.1.1, 903.3.5.1.2, 903.4"

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112 (13) In IBC, Chapter 35, NFPA referenced standard 14-07 is deleted and replaced with
113 the following:

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"Number	Title	Referenced in code section number
14-10	Installation of Standpipe and Hose System	905.2, 905.3.4, 905.6.2, 905.8"

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116 (14) In IBC, Chapter 35, NFPA referenced standard 17-02 is deleted and replaced with
117 the following:

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"Number	Title	Referenced in code section number
17-09	Dry chemical Extinguishing Systems	904.5, 904.11"

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120 (15) In IBC, Chapter 35, NFPA referenced standard 17A-02 is deleted and replaced

121 with the following:

"Number	Title	Referenced in code section number
17A-09	Wet Chemical Extinguishing System	904.5, 904.11"

124 (16) In IBC, Chapter 35, NFPA referenced standard 20-07 is deleted and replaced with
125 the following:

"Number	Title	Referenced in code section number
20-10	Installation of Stationary Pumps for Fire Protection	913.1, 913.2.1, 913.5"

128 (17) In IBC, Chapter 35, NFPA referenced standard 72-07 is deleted and replaced with
129 the following:

"Number	Title	Referenced in code section number
72-10	National Fire Alarm Code	901.6, 903.4.1, 904.3.5, 907.2, 907.2.5, 907.2.11, 907.2.13.2, 907.3, 907.3.3, 907.3.4, 907.5.2.1.2, 907.5.3.3, 907.6, 907.6.1, 907.6.5, 907.7, 907.7.1, 907.7.2, 911.1.5, 3006.5, 3007.6"

132 (18) In IBC, Chapter 35, NFPA referenced standard 92B-05 is deleted and replaced
133 with the following:

"Number	Title	Referenced in code section number
92B-09	Smoke Management Systems in Malls, Atria and Large Spaces	909.8"

136 (19) In IBC, Chapter 35, NFPA referenced standard 101-06 is deleted and replaced
137 with the following:

"Number	Title	Referenced in code section number
101-09	Line Safety Code	1028.6.2"

140 (20) In IBC, Chapter 35, NFPA referenced standard 110-05 is deleted and replaced
141 with the following:

"Number	Title	Referenced in code section number
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110-10	Emergency and Standby Power Systems	2702.1"
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