

Senator J. Stuart Adams proposes the following substitute bill:

CONSTRUCTION CODE REVISIONS

2012 GENERAL SESSION

STATE OF UTAH

Chief Sponsor: Gage Froerer

Senate Sponsor: J. Stuart Adams

LONG TITLE

General Description:

This bill modifies a provision amending the state construction code.

Highlighted Provisions:

This bill:

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

Money Appropriated in this Bill:

None

Other Special Clauses:

None

Utah Code Sections Affected:

AMENDS:

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



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

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

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

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

Exceptions:

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

(2) IBC, Section 3408.4, is deleted and replaced with the following: "3408.4 Change in 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:

"Number	Title	Referenced in code section number
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:

"Number	Title	Referenced in code section number
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2034-2008	Standard of Single- and Multiple-station Carbon Monoxide Alarms	907.9"
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84 (6) In IBC, Chapter 35, NFPA referenced standard 10-07 is deleted and replaced with
85 the following:

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"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:

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"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:

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"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:

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"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:

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"Number	Title	Referenced in code section number
103 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"

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
107	13D-10	Installation of Sprinkler Systems in One- and Two-family Dwellings and Manufactured Homes	903.3.1.3, 903.3.5.1.1"

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
111	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"

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

114	"Number	Title	Referenced in code section number
115	14-10	Installation of Standpipe and Hose System	905.2, 905.3.4, 905.6.2, 905.8"

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

118	"Number	Title	Referenced in code section number
119	17-09	Dry chemical Extinguishing Systems	904.5, 904.11"

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

122	"Number	Title	Referenced in code section number
123	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:

126	"Number	Title	Referenced in code section number
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20-10	Installation of Stationary Pumps for Fire Protection	913.1, 913.2.1, 913.5"
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128 (17) In IBC, Chapter 35, NFPA referenced standard 72-07 is deleted and replaced with
 129 the following:

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"Number	Title	Referenced in code section number
131 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:

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"Number	Title	Referenced in code section number
135 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:

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"Number	Title	Referenced in code section number
139 101-09	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:

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"Number	Title	Referenced in code section number
143 110-10	Emergency and Standby Power Systems	2702.1"