

1 [Structural Repair of Damaged Buildings.]

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3 **Ordinance amending Volume 2, Chapter 16, Section 1605.4.3 of the San Francisco**  
4 **Building Code to clarify that damaged buildings will not have to be brought up to 100**  
5 **percent compliance with current seismic requirements when repaired.**

6 Note: Additions are *single-underline italics Times New Roman*;  
7 deletions are *strikethrough italics Times New Roman*.  
8 Board amendment additions are double underlined.  
Board amendment deletions are ~~strikethrough-normal~~.

9 Be it ordained by the People of the City and County of San Francisco:

10 Section 1. The San Francisco Building Code is hereby amended by amending Volume  
11 2, Section 1605.4.3, to read as follows:

12 Sec. 1605.4.3 Seismic forces. Buildings and structures shall comply with the  
13 applicable provisions of Sections 1626 through 1634, except that, when compliance with this  
14 section is required by:

- 15 1. Section 3403.2.2.1, Substantial change; or
- 16 2. Section 3403.2.2.2, Structural alterations; or
- 17 3. Section 3403.2.1.2, Horizontal additions; for those lateral force resisting  
18 elements which do not share lateral loads with the addition; or
- 19 4. Section 3405, Change in Use, which does not involve a change in the I or I<sub>w</sub>  
20 factors of Table 16-K; or
- 21 5. Section 1630.1.1, New storage or warehouse live loads in more than 10 percent  
22 of the total floor area; or
- 23 6. Section 3403.2.2.4, Repair – Repairs to buildings or structures which have  
24 sustained structural damage;

1 then structures and elements may be designed for seismic forces of not less than 75 percent  
2 of those given in Sections 1626 through 1634, and

3 1. Near field effects ( $N_a$  and  $N_v$  of Tables 16-S and 16-T) and the  
4 reliability/redundancy factor ( $P$ ) need not exceed 1.0; and

5 2. The load factor resulting from the vertical component of the earthquake ground  
6 motion ( $E_v$ ) may be 0; and

7 3. Fifty percent of  $\Delta_m$  may be used to evaluate deformation compatibility of existing  
8 elements and existing exterior elements in accordance with Section 1633.2.4; new elements  
9 shall meet the full criteria of this code; and

10 4. The building separation limitations of Section 1633.2.11 do not apply; and

11 5. The maximum allowable height to length ratio for shear resisting construction  
12 with wood frame may be taken as 3.5; and

13 6. In wood frame buildings not more than 4 stories in height,  $R$  may be 5.5  
14 regardless of the bracing system or materials used.

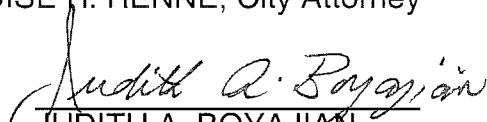
15  
16 When upper floors are exempted from compliance by Section 3405, the lateral forces  
17 generated by their masses shall be included in the analysis and design of the lateral force  
18 resisting systems for the strengthened floor. Such forces may applied to the floor level  
19 immediately above the topmost strengthened floor and distributed in that floor in a manner  
20 consistent with the construction and layout of the exempted floor.  
21

22 In lieu of meeting the specific requirements of this section, an alternative lateral  
23 analysis procedure complying with Section 1629.10.1 and incorporating inelastic behavior  
24  
25

1 may be submitted and approved in accordance with rules and regulations adopted by the  
2 Director pursuant to Section 104.2.1.

3  
4 APPROVED AS TO FORM:  
5 LOUISE H. RENNE, City Attorney

6 By:

  
7 JUDITH A. BOYAJIAN  
8 Deputy City Attorney  
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# City and County of San Francisco

City Hall  
1 Dr. Carlton B. Goodlett Place  
San Francisco, CA 94102-4689

## Tails Ordinance

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**File Number:** 011562

**Date Passed:**

Ordinance amending Volume 2, Chapter 16, Section 1605.4.3 of the San Francisco Building Code to clarify that damaged buildings will not have to be brought up to 100 percent compliance with current seismic requirements when repaired.

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November 19, 2001 Board of Supervisors — PASSED ON FIRST READING

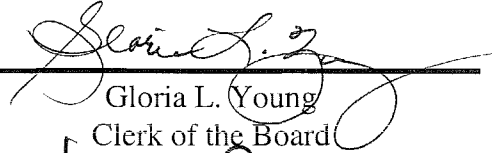
Ayes: 10 - Ammiano, Daly, Gonzalez, Hall, Leno, Maxwell, McGoldrick,  
Newsom, Peskin, Yee  
Absent: 1 - Sandoval

December 3, 2001 Board of Supervisors — FINALLY PASSED

Ayes: 11 - Ammiano, Daly, Gonzalez, Hall, Leno, Maxwell, McGoldrick,  
Newsom, Peskin, Sandoval, Yee

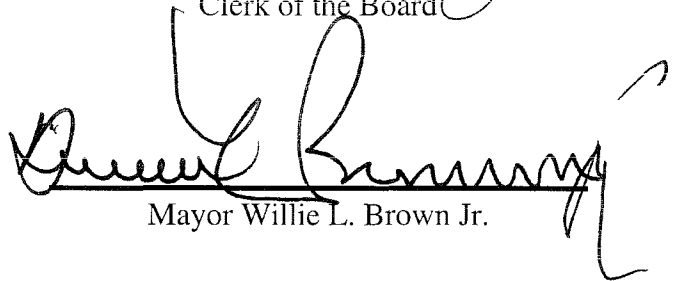
File No. 011562

I hereby certify that the foregoing Ordinance  
was FINALLY PASSED on December 3, 2001  
by the Board of Supervisors of the City and  
County of San Francisco.

  
Gloria L. Young  
Clerk of the Board

DEC 07 2001

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Date Approved

  
Mayor Willie L. Brown Jr.