San Francisco's Earthquake Safety Program





San Francisco: Built World Snap Shot



825,863



147,979



6,381

Total Population Buildings in San Francisco Noticed Buildings Soft Story Program



Community Action Plan for Seismic Safety

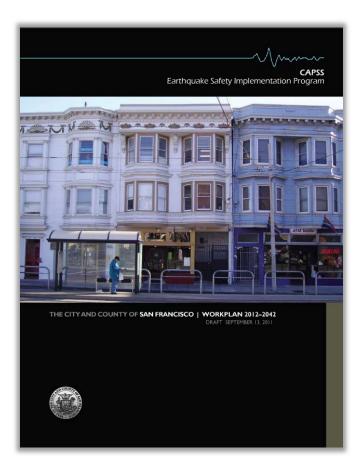
	ATC 52-2	
The F	Today—Here Tomorrow: Road to Earthquake Resilience n Francisco	
A Con	munity Action Plan for Seismic Safety	
201		
ΔΤϹ	Applied Technology Council	
	co Department of Building Inspection ommunity Action Plan for Seismic Safety (CAPSS) Project	







Earthquake Safety Implementation Program





The Soft Story Ordinance

	FILE NO. 130119 AMENDED IN COMMITTEE 32252013 ORDINANCE NO. 66 -/3
1 2	[Building Code - Mandatory Seismic Retrofit Program - Wood-Frame Buildings; Optional Evaluation Form Fee]
3	Ordinance amending the Building Code to establish a Mandatory Seismic Retrofit
4	Program for wood-frame buildings of three or more stories or two atories over a
5	basement or underfloor area that has any portion extending above grade, and
6	containing five or more dwelling units where the permit to construct was applied for
7	prior to January 1, 1978, and the building has not been seismically strengthened;
8	establishing a fee for administering the program; adopting environmental findings and
9 ⁱ	findings of local conditions under California Health and Safety Code, Section 17958.7;
10	establishing an operative date; and directing the Clerk of the Board to forward the
11	legislation to specified State agencies.
12	NOTE: Additions are single-underline italics Times New Roman;
13 14	deletions are <i>infiberlexagh</i> indites 3 and 5 and 100 and
15	Be it ordained by the People of the City and County of San Francisco:
16	Section 1. General Findings.
17	(a) At a duly noticed public hearing held on February 20, 2013, the Building Inspection
18	Commission considered this ordinance.
19	(b) The Planning Department has determined that the actions contemplated in this
20	ordinance comply with the California Environmental Quality Act (California Public Resources
21	Code Section 21000 et seq.). Said determination is on file with the Clerk of the Board of
22	Supervisors in File No. 130119 and is incorporated herein by reference.
23	(c) In Section 19160 of the California Health & Safety Code, the State Legislature
24	declared that because of the generally acknowledged fact that California will experience
25	moderate to severe earthquakes in the foreseeable future, increased efforts to reduce
	Mayor Lee, Soponiese Ohiu, Womer, Yoo, Famil, Breed Mar, Tang, Cohen Page 1 BOARD DF SUPERVISORS 3225/2013



Compliance Tier	Submission of Screening Form and Optional Evaluation Form	Submittal of Permit Application with Plans for Seismic Retrofit Work	Completion of Work And Issuance of CFC
1	1	2	4
II	1	3	5
III	1	4	6
IV	1	5	7

Ordinance 66-13: a 23-yr history

- Loma Prieta, Northridge
 LABC Div 93, GSREB, IEBC A4
- Berkeley (2005)
- CAPSS
- Newsom Exec. Directive (7/08)
- SPUR (2/09)
- ATC 52-3 (2009)
- 2010: AB-094, Prop A (63.2%)
- April 18, 2013



: It Takes a Village

- Mayor's Office Formation of ESIP
- Office of the City Administrator
- Board of Supervisors
- Department of Building Inspection





: It Takes a Village

- SF Planning Department
- SF Fire Department
- Department of Public Works
- Office of Small Business
- OEWD
- General Services
 Agency (311, Repro)



3402B: Scope

This Chapter shall apply to existing buildings, including mixedoccupancy buildings, that are Type V (wood-frame) construction of three or more stories or two stories over a basement or underfloor area that has any portion extending above grade, and containing five or more dwelling units and for which a permit for construction of a new building was applied for before January 1, 1978 or which is determined by the Department to have been originally constructed before January 1, 1978.

- Material: Type V (wood-frame) construction
- Stories: 3+ or 2 over basement
- Units: Five or more dwelling units
- Age: Pre-1978



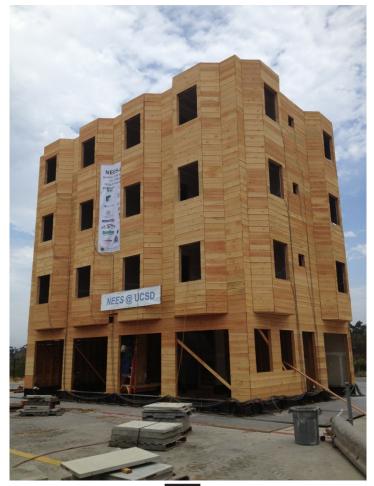
3406B.2: Engineering criteria

- 1. FEMA P-807
- 2. ASCE 41-13
- 3. ASCE 41-06
- 4. ASCE 31-03 (evaluation only)^B
- 5. 2012 IEBC A4 (retrofit only)
- 6. Other rational methods

First story retrofit



NEES Testing – San Diego, CA





3404B.2: Screening Form

- Purpose
 - Quickly exempt buildings outside intended scope
 - Confirm buildings within intended scope
 - If in, assign Compliance Tier
- Need to account for odd cases of
 - Structural material
 - Number of stories
 - Number of units
 - Age

Screening Form

- Preamble
 - Instructions
 - Pre-populated data
- Section 1
 - Administrative
 - Condo units
 - Re-submittal?

City and County of San Fran- Department of Building Inspi		Tom C. Hul, S	Edwin M. L E., C.B.O., Acting	
Wood-Fra	ame Seismic I		ram	
City records indicate that a building loc 348: Mandatory Earthquase Retroft of and submit this Screening Form (Sect California ilcensed architect or divil or completed voluntary sesmic strengthe SFBC Section 34058 (see Section 2).	(Wood-Frame Buildings, The buildin ion 34048.2), Sections 3 through 5.1 structural engineer, Submittal of this ming or if the building in its current o	g owner or the owner's authorize of this form, if needed, are to be Screening Form is required ever	ed agent shall complete completed by a hif the building has	
A separate document, Screening For	m Instructions, provides explanatio	n and instructions for this Screen	ing Form.	
Submit the completed Screening Fo	tory@stgov.org. with "Screening For to Wood-Frame Seismic Retrofit Pro	m submittel" in the subject line, o gram, Department of Building Ins	ar apection, 1680 Mission	
 As a hardcopy by U.S. mail Street, San Francisco, CA 9 				
 As a hardcopy by U.S. mail 				
 As a hardcopy by U.S. mail Street, San Francisco, CA 9 		2 10101 1271		Ð
As a hardcopy by U.S. mail Strart, San Francisco, CA 9 BLOCK / LOT NUMBER OWNER NAME OWNER ADDRESS				9 9 9
As a hardcopy by U.S. mail Strart, San Francisco, CA 9 BLOCK / LOT NUMBER OWNER NAME OWNER ADDRESS	ION 1 – ADMINISTRATI	VE INFORMATION		8
As a hardcopy by U.S. mail Strart, San Francisco, CA 9 BLOCK / LOT NUMBER OWNER NAME OWNER ADDRESS SECTI Overer telephone	ION 1 – ADMINISTRATI	VE INFORMATION		5 5
An a hardcopy by U.S. mail Street, San Francisco, CA 9 BLOCK / LOT NUMBER OWNER NAME OWNER ADDRESS SECTI Owner telephone Owner mailing address (if different from	ION 1 – ADMINISTRATI			2 5 5
As a hardoopy by U.S. mail Steed, San Francisco, CA 9 BLOCK / LOT NUMBER OWNER NAME OWNER ADDRESS SECTI	ION 1 – ADMINISTRATI Overer email m above)			8 9 9 9
As a hardoopy by U.S. mail Steed, San Prandisco, CA 9 BLOCK / LOT NUMBER OWNER NAME OWNER ADDRESS SECTI Owner telephone Owner mailing address (if different from Authorized agent (optional)	ION 1 – ADMINISTRATI	Agent email	h building. Please list	
As a hardoopy by U.S. mail Steed, San Francisco, CA 9 BLOCK / LOT NUMBER OWNER NAME OWNER ADDRESS SECTI Owner telephone Owner mailing address (if different from Authorized agent (optional) Agent mailing address CONDOMINIUM OWNERS: Please s	ION 1 – ADMINISTRATI	Agent email	95. (1953)	- - - No

1660 Mission Street – San Francisco CA 94103 Office (415) 558-6699 – <u>www.sfdbi.org</u> Wood-Frame Selamic Retroft Program Screening Form- Page 1 of 3

Screening Form

- Section 2
 - Exemption for previous retrofits
- Section 3
 - Scope check
- Section 4
 - Compliance Tier

City and County of San Francisco Department of Building Inspection



Edwin M. Lee, Mayor Tom C. Hui, S.E., C.B.O., Acting Director

You Mrs

BLOCK / LOT NUMBER

SECTION 2 - VOLUNTARY STRUCTURAL WORK EXEMPTION

If the answer to question one (1) is yes, Screening Form Sections 3, 4, and Section 5.1 need not be completed. Section 5.2 must be completed in all cases.

	Yes	No
 Has voluntary sesmic strengthening been completed under Administrative Bulletin AB-094, Definition and Design Criteria for Voluntary Seismic Upgrade of Soft Story, Type-V (wood frame) Buildings? 		

If yes, AB-094 Permit Application Number:

 In addition to the exemption for AB-094 retrofts, this program (SFBC Section 34028) also exempts certain retrofts completed within the last 15 years. To qualify for that exemption, complete and submit this Screening Form as well as the separate Optional Evaluation Form.

SECTION 3 - SCOPE VERIFICATION

	1.808	1.20e
 Is the building of Type V (wood-tranne) construction? (7his question applies only to Target Stories. Use the Type V Worksheet in the Screening Form Instructions to answer this question.) 		
If No, indicate also which of these conditions is true: The building has no Target Stories. The building has one or more Target Stories but they are not wood-frame.		
 Was the building originally constructed before January 1, 1978, or was a permit for construction applied for before January 1, 19703 		
3. Is the building three or more stories, or two stories over a basement or underfloor area that extends above grade?		
4. Does the building contain five or more dwelling units?		
CONCLUSION: Is the response to ALL FOUR of the preceding questions Yes?		
If Yes. The building is subject to SFBC Chapter 348. Complete and submit this Screening Form.		
If No: The building is exempt from SFBC Chapter 34B. Complete and submit this Screening Form, but skip Sect Department will confirm the exemption is writing.	on 4. The	

Note: Even if the building is subject to SFBC Chapter 348, it might not require retrofit. An owner may show that retrofit is not required by submitting a separate Optional Evaluation Form with supporting documents. The **Optional Evaluation Form** is available at your strates cognition.

SECTION 4 – ASSIGNMENT OF COMPLIANCE TIER Indicate the compliance for, Use the Compliance Ter Worksheet in the Screening Form Instructions to find the compliance for.

Tier II D Tier III D Tier IV D

Department of Building Inspection 1660 Mission Street – San Francisco CA 94103 Office (415) 558-6699 – www.sfdbi.org

Wood-Frame Seismic Retroft Program Screening Form- Page 2 of 3

Screening Form

- Section 5
- Stamp and signature
- Owner statement
- DBI use

City and County of San Francisco Department of Building Inspection	Q		Edwin M. L Tom C. Hui, S.E., C.B.O., Actin
BLOCK / LOT NUMBER	26		
SECTION 5 -DESIG		SSIONAL & C	WNER AFFIDAVIT
 DESIGN PROFESSIONAL Under penalty of perjury, I certify that the inform review of the building and its records, or nevie knowledge. 	ation provided i w by others ac	n Sections 3 and 4 o ling under my direct	this Screening Form is based on my perso supervision, and is correct to the best of
			(Professional Diarry Hars)
Date stamped and signed			1.01.01.01.00.000
Firm name		1.1	
Design Professional telephone Des	kgn Protessiona	i emai	
5.2 OWNER/ AGENT Under penaity of perjury. I certify that the inform my knowledge. Signature		in Sections 1 and 2 (Date	of this Screening Form is correct to the best
Under penalty of perjury. I certify that the inform my knowledge.			Owner
Under penalty of perjury. I certify that the inform my knowledge.	_ 3		Owner
Under penalty of perjury. I certify that the inform my knowledge.	FOR DB	Date	Owner
Under penalty of peginy. I certify that the inform my knowledge. Signature	FOR DB	Date	Owner
Under penaity of peginy. I certify that the inform my knowledge. Signeture Form appears incomplete / more information ner SECTION 2: AB-094 Retroft	FOR DB ided regarding:	Date	_ Owner
Under penaity of perjury. I certify that the inform my knowledge. Signature Form appears incomplete / more information ner SECTION 2: AB-094 Retroft SECTION 2: Scope Verification	FOR DB ided regarding:	Date I <u>USE ONLY</u> Building is su The form app	Agent.
Under penaity of pegiury. I certify that the inform my knowledge. Signature Form appears incomplete / more information ner SECTION 2 AB-054 Remotif SECTION 2 AB-054 Remotif SECTION 3 Scope Verification Wood-Frame	FOR DB ided regarding:	Date I <u>USE ONLY</u> Building is su The form app	_ Owner
Under senaity of pegiury. I certify that the inform my knowledge. Signature Form appears incomplete / more information ner SECTION 2 AB-094 Retroft SECTION 2 AB-094 Retroft SECTION 2 AB-094 Retroft Pro- 1978	FOR DB ided regarding:	Date I <u>USE ONLY</u> Building is su The form app	Agent.
Under penalty of pegiuty. I certify that the inform my knowledge. Signature Form appears incomplete / more information ner SECTION 2 AB-084 Kerrolt SECTION 2 AB-084 Kerrolt SECTION 3 Scope Verification Wood-Frame Pre- 1978 Stories	FOR DB ided regarding:	Date I <u>USE ONLY</u> Building is su The form app	bject to the ordinance.
Inder paraity of perjury. I certify that the inform ity knowledge. Fignature Form appears incomplete / more information ner SECTION 2: AB-094 Retrofit SECTION 3: Scope Verification Viood-Frame Pre-1978 Stories Units	EOR OB eled regarding	Date I <u>USE ONLY</u> Building is su The form app on design pro	bject to the ordinance.

Department of Building Inspection 1660 Mission Street - San Francisco CA 94103 Office (415) 558-6699 - www.sfdbi.org

e, Mayor Director

Wood-Frame Seismic Retroft Program Screening Form- Page 3 of 3

Screening Form Section 2

City and County of San Francisco

- Exemption for previous retrofits
- AB-094?
 If yes, skip to
 - Section 5.2
- Other
 - Per 3402B
 - Requires Optional Evaluation Form

Department of Dansing Inspection			ang process
BLOCK / LOT NUMBER	2 <u>2</u>		
	TARY STRUCTURAL WORK EXEMPTIO Form Socilions 2, 4, and Socian 5,1 need not be completed. S completed in all cases.		usf be
		Yes	Mo
 Has voluntary seismic strengthening been com Design Criteria for Voluntary Seismic Upgrade of 3 	pleted under Administrative Bulletin AB-094, Definition and Soft Story, Type-V (wood frame) Buildings?		
If yes, AB-094 Permit Application Numb	60"		
	b) this program (SFBC Section 34028) also exempts certain retry ion, complete and submit this Screening Form as well as the section, complete and submit this Screening Form as well as the section.		
SECTIO	N 3 – SCOPE VERIFICATION	25755	12.11
		Yes	No.
 Is the building of Type V (wood-frame) construit Type V Worksheet in the Screening Form Instruction 	ction? (This question applies only to Target Stories. Use the ons to answer this question.)		
If No, indicate also which of these conditions is tru The building has no Target Stories. The building has one or more Target			
 Was the building originally constructed before a before January 1, 19787 	January 1, 1978, or was a permit for construction applied for		
 Is the building three or more stories, or two stor grade? 	ties over a basement or underfloor area that extends above		
4. Does the building contain five or more dwelling	unts?		
CONCLUSION: Is the response to ALL FOUR	of the preceding questions Yes?		
If Yes. The building is subject to SFBC Chapter	348. Complete and submit this Screening Form.		
If No: The building is exempt from SFBC Chapte Department will confirm the exemption is writing.	r 34B. Complete and submit this Screening Form, but skip Sect	on 4. The	
	ter 34B, it might not require retroft. An owner may show that re- tion Form with supporting documents. The Optional Evaluation		

Edwin M. Lee, Mayor

A ULL DE COO

	SECTION	4 - ASS	GNMENT	OF CO	MPLIANCE TIEF	2
Come	tion Plan the Com	Indiana The	Induction in stand in still	a Conceptor	Come Instructions to dis-	of these sectors

Indicate the compliance Ser. Use the Compliance Tier Worksheet in the Screening Form Instructions to find the compliance Ser

Tier I

Tier II D Tier III D Tier IV D

Department of Building Inspection 1660 Mission Street – San Francisco CA 94103 Office (415) 558-6699 – www.sfdbj.org

Wood-Frame Seismic Retroft Program Screening Form- Page 2 of 3

Screening Form Section 3

- Scope check
- 4 questions
- If any No, exempt.
 Skip to Section 5
- See instructions:
 - Story count
 - Type V "Target Stories"

City and County of San Francisco Department of Building Inspection		Tom C. Hui, S.E., C		Lee, Ma ting Dire
BLOCK / LOT NUMBER	2			
SECTION 2 - VOLUN If the answer to question one (1) is yea, Screening				usf be
			Yes	No
1. Has voluntary seismic strengthening been comp Design Criteria for Voluntary Seismic Upgrade of S				
If yes, AB-094 Permit Application Number	br:			
within the last 15 years. To qualify for that exempti Evaluation Form.				
SECTION	N 3 - SCOPE VERIF	ICATION	Yes	MR.
 Is the building of Type V (wood-frame) construct Type V Worksheet in the Screening Form Instruction 				
If No, indicate also which of these conditions is true The building has no Target Stories. The building has one or more Target		Constant of Consta		
 Was the building originally constructed before J before January 1, 19787 				
3. Is the building three or more stories, or two stori grade?	ies over a basement or underfi	oor area that extends above		
4. Does the building contain five or more dwelling	unts?			
CONCLUSION: Is the response to ALL FOUR	of the preceding questions Ye	\$7		
If Yes. The building is subject to SFBC Chapter 3	MB. Complete and submit this	Screening Form.		
If Yes: The building is subject to SFBC Chapter 3 If No: The building is exempt from SFBC Chapter Department will confirm the exemption is writing.			on 4. The	

SECTION 4 – ASSIGNMENT OF COMPLIANCE TIER

Indicate the compliance tier. Use the Compliance Tier Worksheet in the Screening Form Instructions to find the compliance Ser.

Tier II Tier II Tier III Tier IV

Department of Building Inspection 1660 Mission Street – San Francisco CA 94103 Office (415) 558-6699 – www.sfdbi.org

Screening Form Section 4

- Compliance Tier
- Purpose
 - Prioritize highest
 life safety risk
 - Give more time for complex cases
 - Control DBI workflow
- Definitions: 3404B.3

Department of Building Inspection	Tom C. Hul, S.E., C	Edwin M B.O., Ac	
BLOCK / LOT NUMBER			
If the answer to question one (1) is yes, Screening For	RY STRUCTURAL WORK EXEMPTIO In Sections 3, 4, and Section 5.1 need not be completed. So completed in all cases.		sust à
		Yes	100
1. Has voluntary seismic strengthening been complete Design Criteria for Voluntary Seismic Upgrade of Soft S			
If yes, AB-094 Permit Application Number:			
Evaluation Form.			_
SECTION 2	SCORE VERIEICATION		
SECTION 3	- SCOPE VERIFICATION	Yea	N
SECTION 3 1. Is the building of Type V (wood-frame) construction? Type V Worksheet in the Screening Form Instructions is	(This question applies only to Target Stories. Use the	Yea	
Is the building of Type V (wood-frame) construction? Type V (wood-frame) construction? If No, indicate also which of these conditions in true: The building has no Target Stories.	(This question applies only to Target Stories. Use the answer this question.)		
 Is the building of Type V (wood-traine) construction? Type V Worksheet in the Screening Form Instructions it if No, indicate also which of these conditions is true: 	(This question applies only to Target Stories. Use the o answer this question.) iss but they are not wood-frame.		
1. Is the building of Type V (wood-frame) construction? Type V Worksheer in the Screening Form Instructions in If No, indicate also which of these conditions in true: The building has no Target Stories. The building has one or more Target Stor 2. Was the building originally constructed before Janua	(This question applies only to Target Stories. Use the anower this question.) ies but they are not wood-frame. ny 1, 1978, or was a permit for construction applied for		
1. Is the building of Type V (wood-frame) construction? Type V Worksheer in the Screening Form instructions is If No, indicate also which of these conditions is true: The building has no Target Stories. The building has one or more Target Store 2. Was the building originally constructed before Janual before January 1, 1978? 3. Is the building these or more stories, or two stories or	(This question applies only to Target Stones. Use the o answer this question.) es but they are not wood-frame. ny 1, 1978, or was a permit for construction applied for ver a basement or underfloor area that extends above		
Is the building of Type V (wood-frame) construction? Type V Worksheer in the Screening Form Instructions in If No, indicate also which of these conditions is true: The building has no Target Stories. The building has one or more Target Stories. Was the building originally constructed before January 1, 1970? 3. Is the building three or more stories, or two stories or grade?	(This question applies only to Target Stories. Use the o answer this question.) ins but they are not wood-frame. ry 1, 1978, or was a permit for construction applied for wer a basement or underfloor area that extends above ?		
Is the building of Type V (wood-frame) construction? Type V Worksheet in the Screening Form Instructions in I'No, indicate also which of these conditions is true:	(This question applies only to Target Stories. Use the answer this question.) les but they are not wood-frame. ny 1, 1978, or was a permit for construction applied for wer a basement or underfloor area that extends above 9 e preceding questions Yes?		

Note: Even if the building is subject to SFBC Chapter 348, it might not require retroft. An owner may show that retroft is not required by submitting a separate Optional Evaluation Form with supporting documents. The **Optional Evaluation Form** is available at retrom standards.



Wood-Frame Seismic Retroft Program Screening Form- Page 2 of 3

3404B.3: Compliance Tiers

1. Tier I: Buildings that contain a Group A, E, R-2.1, R-3.1 or R-4 occupancy on any story.

2. Tier II: Buildings containing 15 or more dwelling units, except for buildings assigned to Tier I or Tier IV.

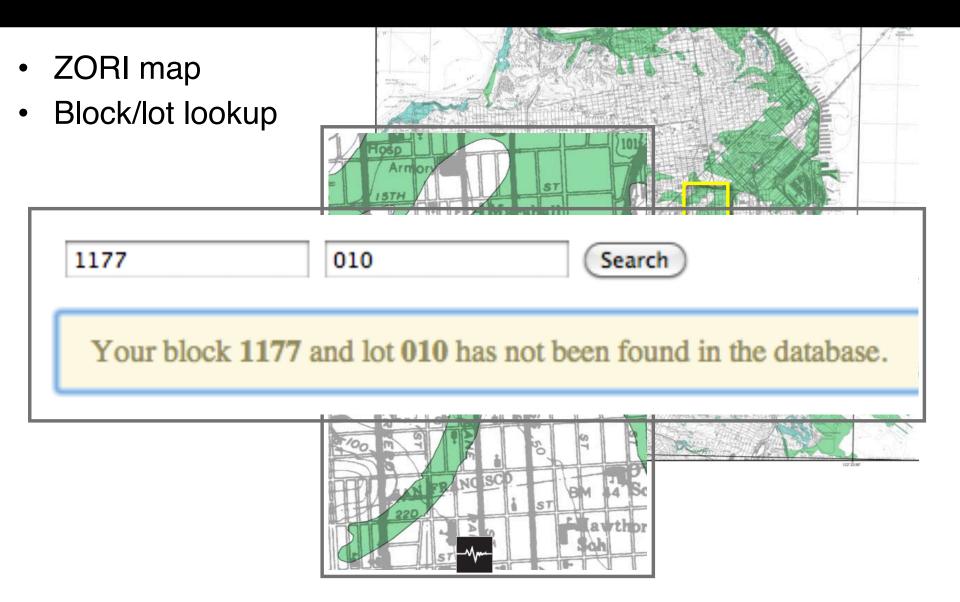
3. Tier III: Buildings not falling within the definition of another tier.

4. Tier IV: Buildings that contain a Group B or M occupancy on the first story or in a basement or underfloor area that has any portion extending above grade, and buildings that are in mapped liquefaction zones, except for buildings assigned to Tier I.

- Highest risk: Assembly, School, Assisted living
- Complex cases: Businesses, liquefaction areas



Liquefaction Areas



Optional Evaluation Form

- Not required for
 - AB-094 retrofit per 3402B.2
- Required for
 - Retrofit per 3402B.1
 - Other retrofit
 - Claim of compliant building

City and County of San Francisco Department of Building Inspection



Edwin M. Lee, Mayor Tom C. Hui, S.E., C.B.O., Acting Director

Wood-Frame Seismic Retrofit Program

OPTIONAL EVALUATION FORM - \$374.00 FEE

This form has been developed in compliance with San Francisco Building Code Bection 34048.2.5 for use by owners of buildings within the scope of SFBC Chapter 348. The purpose of the form is to summarize an owner's optional evaluation demonstrating that the building either 11 has been strengthened to meet or exceed the standards of SFBC Section 1604.11 or its prodecessor provisions along June 17, 1998, or 21 already meets the orthonia of SFBC Section 34098.2 without additional retrotit. Where used, Sections 3 through 5.1 of this form are to be completed by a California inormed architect, will or structural engineer.

Submit the completed Optional Evaluation Form together with a completed Screening Form and with the supporting documents identified in Sections 3 and/or 4 to Department of Building Inspection, 1660 Mission Street, San Francisco, CA 94103.

BLOCK / LOT NUMBER	
OWNER NAME	71:
OWNER ADDRESS	
	SECTION 1 - ADMINISTRATIVE INFORMATION

SECTION	1 - ADMINISTRATIVE	INFORMATION

Owner telephone	Owner email	
Owner mailing address (if different ho	m above)	
Authorized agent (optional)	Agent telephone	Agent email
Agent mailing address		
CONDOMINIUM OWNERS: Please a		contact information for each building. Please list

	Yes	No
Does this Optional Evaluation Form replace or supplement a previously submitted Optional Evaluation Form for the same utilding?		

Department of Building Inspection 1660 Mission Street – San Francisco CA 94103 Office (415) 558-6699 – www.sfdbi.org

Wood-Frame Seiamic Retrofit Program Screening Form - Page 1 of 3

Outreach

Target Audience:

- Design Professionals
- Contractors
- Financial Partners
- Property Owners
 - Financing/Compliance
- Tenants
 - Hardship Reform



Outreach Events











CALIFORNIA

Chinatown Community Development Center

華協中心

Outreach Events

Earthquake Retrofit Fair

January 28, 2014 3pm-7pm Bill Graham Civic Auditorium 99 Grove Street

Design Professionals | Contractors | Banks | Building Owners

To participate in this event please contact Jeno Wilkinson at (415) 554-4925 or Jeno.Wilkinson@sfgov.org



Building Private Industry Relationships





Summer Interns and Fellowships





The EPICENTER





The **EPICENTER** is a pop-up collaborative space for earthquake policy research and development. The center, a project of the

San Francisco City Administrator's Earthquake Safety Implementation Program

(ESIP), is aimed at engaging the public, working directly with design professionals, and the handson development of effective and innovative public policy aimed at reducing the impacts of earthquakes on San Francisco.

At our <u>South of Market location</u>, The **EPICENTER** strives to promote an effective, well-managed public sector and nurture a climate of civic engagement (<u>SPUR, Good Government</u>) by connecting professionals, policy makers, and the community in one space to ask the question: How can we make San Francisco safer from earthquakes tomorrow than it is today? Our mission, then, is simple: to collaborate, to innovate, and to educate.

The EPICENTER Opening Event







Earthquake Safety Implementation Program

Some Current Tasks







Private Schools

Voluntary Cripple Wall Retrofits **Façade Maintenance**



Private Schools



1933 Long Beach Earthquake killed 115 people and damaged several schools leading to the passage of the Field Act.

- Private schools are currently not required to meet the same standards as public schools
- Approximately 1/3 of SF children attend private schools
- Public expectation does not reflect reality
- Collapse or extensive damage to even a few schools can result in many deaths or injuries to children
- Schools are an essential part of the City's post-disaster recovery efforts.

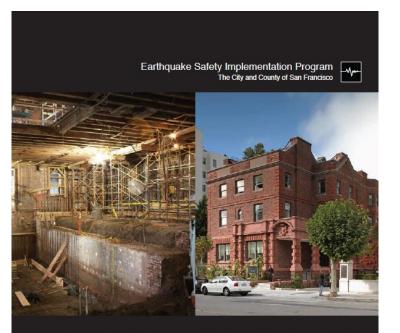
Private Schools



- Policy working group established in early 2012
- Outreach to every private school administrator for participation
- Examined and discussed all policy options at length



Private Schools

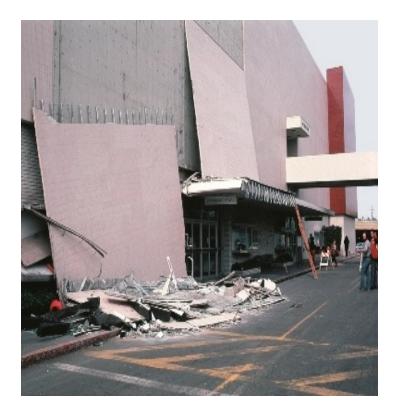


EARTHQUAKE RISK AND SAN FRANCISCO'S PRIVATE SCHOOLS I REPORT December 31, 2013

- Final policy recommendations to Mayor Lee in early 2014
- Policy recommendations will be for mandatory structural evaluations of all San Francisco private schools within 3 years.
- Ordinance development underway and introduction is expected next month



Façade Maintenance Program



Façade programs exist in the following cities:

New York Boston Chicago Columbus Detroit Milwaukee Philadelphia Pittsburg St. Louis

San Francisco will be the first west coast city to adopt a façade ordinance



Façade Maintenance Program



Program Requirements

- Working group policy analysis
 underway
- Periodic inspection of façade by engineer of the owners choosing
- Reports submitted to the Department of Building Inspection
- Requires mitigation of unsafe conditions



Voluntary Cripple Wall Retrofits

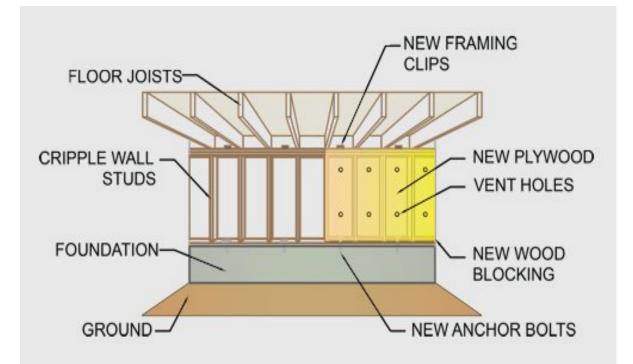


California Residential Mitigation Program

- Provides a \$3,000 rebate for retrofits done in accordance with CEBC Appendix A3
 - In process of local SFBC Administrative Bulletin for implementation



Voluntary Cripple Wall Retrofits



- CEBC Appendix A3 is a prescriptive method of retrofit for cripple walls 4' or less
 - Exception allows for larger cripple walls when recommended by an engineer

Get Involved!



Working Groups | Facebook | Website | Visit EPICENTER



facebook/sfcapss



www.sfcapss.org



245 Third St. SF, CA 94103

