Simplified Seismic Assessment Form For Detached, Single-Family, Wood-Frame Dwellings (Please print all information)

Street Address	C	ommunity/Area/City	ZIP Code Date	е —
Owner		Inspector	Inspection Form # (option	onal)
or each question, <u>circle only one answer</u> . Circle the one	e with highe	er penalty if more than one a	nswer applies. <u>Exception: ques</u>	tion B-1
. Foundation (If the dwelling has a crawl space, the i	nspector s	hould view all the areas that	are accessible.)	
	Penalty			Penal
A-1 The exterior footing is:	[0]	*A-5 At the dwelling perime system supports a wo	eter walls, where the foundation od framed floor:	ו
 a. continuous concrete or reinforced masonry b. other footing conditions 	[0] [4.2]	a. the foundation sil the foundation wi	I plate (mudsill) is bolted to th average anchor bolt spacing	[0
 The lowest floor of the dwelling is: a. slab-on-grade 	[0]	of 72 in. or less b. the foundation sil	l plate is fastened to the etrofit anchors equivalent to	[0
b. wood framed over crawl space or basementc. combination of slab-on-grade and wood framed	[2.9] d [2.9]	72 in. or less and	hor bolt spacing	[4 7
floor over crawl space or basement A-3 At the dwelling crawlspace or basement interior, the	.	is > 72 in. but <=		[1.7
lowest floor framing is supported on:		spacing	nave > 108 in. average	[4.6
 a. continuous stem walls or a combination of continuous stem walls and beams on posts bearing on concrete footings/piers b. beams on posts bearing on piers/pad footings 	[0] [0.8]	splitting, or inade third or more of th	I plates have extensive decay, quate edge distance at one- ne anchor bolt locations such p of the sill plate could occur	[10.0
 c. beams on posts beams on piers/pad rootings c. beams on posts supported directly on soil d. not applicable: slab-on-grade -4 For a foundation on a slope of 3 horizontal to 1 vert 	[2.2] [0]	f. the anchor bolts l one third or more such that significa	of the anchor bolt locations ant slip of the sill plate could	[10.0
or steeper, the top of the footing or foundation stem on which wall studs or posts are supported is:	wall	occur g. there are no foun	dation anchor bolts	[15.0
a. sloped parallel to the ground slope	[3.7]	•	dation sill plates to connect to	[15.0
b. stepped	[1.8]	i. not applicable		[0]
 c. at a constant elevation with no steps d. not applicable 	[0.6] [0]	Total		•
elements must be inspected.)	Penalty			Penal
1 The dwelling has: (circle all that apply, a to e)		*B-4 For an attached garage	e with a second floor above, th	ne
 a. unsymmetrical wall strength (torsion problems) 	yes [1.6]		te of the garage door openings anels on each narrow wall pier	
• •	yes [0.3]	-	ames around or alongside the	-
	yes [0.0] yes [2.0]		row shear walls, installed in)] 1001 [(
 out-of-plane offsets of more than 4 ft. in exterior walls 	yes [0.4]		manufacturer's recommendation itions specified in conditions a,	-
	yes [0.6] yes [0]	or c above (that a e. not applicable (si	are visable) ngle story) or built in accordan	ce [(
with 1994 UBC, 2000 IBC, 2000 IRC or later edition	yc3 [0]	with 1997 UBC, 2	2000 IBC, 2000 IRC or later ed	tion
8-2 For exterior walls at the lowest occupied story, the slength of full story height wall sections (between operation).		*B-5 The exterior wall cove a. siding known to b sheathing	e over plywood or OSB	[(
excluding < 2'-8" panels) on any face is less than: a. 20% of the length of the wall, if a single story	yes [3.2]	 b. siding not known sheathing 	to be over plywood or OSB	[2.
	yes [3.2]	9	or diagonal wood siding	[(
c. 40% of the length of the wall, if three stories or more	yes [3.2]	d stucco e. masonry veneer	not more than 10 feet above	[1.([2.(
d. none of the above	[0]	the supporting for	undation	-
-3 If the roofing is heavy (i.e., clay or concrete tile) the dwelling is:		f. masonry veneer supporting found	more than 10 feet above the ation	[3.
a. single story	[1.6]			
b. multi-story	[3.5]			
c. not applicable: roofing is light.	[0]			
ssessment item that may be improved by seismic retro	fit; see pa	ge 6, Section H		
nplified Seismic Assessment Form				Page

Grade

B. Superstructure Framing and Configuration (Every accessi elements must be inspected.) (continued)	ble area such as the attic and under-floor area that reveals structural
Penalty	Penalty
B-6 There is evidence of interior remodeling that has removed interior walls: yes [1.0] no/ not applicable [0]	c. original or retrofitted perimeter cripple walls with [1.0] plywood or OSB sheathing where cripple walls are one story or less in height
B-7 The number of stories is: a. one (1) [0]	d. original or retrofitted perimeter cripple walls [4.0] with plywood or OSB sheathing where cripple walls are greater than one story in height
b. two (2) [1.8] c. 3 or more [3.6]	e. wood or steel diagonal braces not detailed [7.0] in accordance with 1997 UBC, 2000 IBC or later edition
*B-8 At the dwelling perimeter, the main lowest framed floor is supported on:	f. plywood or OSB sheathed perimeter skirt walls [7.0] that do not extend to and anchor to the foundation
a. beam and column (post-and-pier) system [14.0] with no sheathed exterior walls	g. none of the above [0]
b. perimeter cripple walls with no plywood or [14.0] OSB sheathing	Total
C. General Condition Assessment	1
Penalty	Penalty
C-1 The overall condition of the dwelling is: a. good (essentially crack free, no moisture/water [0] intrusion problems)	*C-4 At the foundation level, there is: a. significant deterioration visible (corrosion, [1.3] material breakdown)
b. fair (minor wood decay and cracks)[1.0]c. poor (many cracks on interior and exterior, floor[2.1]out of lovel and wood decay)[2.1]	b.some deterioration visible[0.6]c.no deterioration visible[0]
out-of-level and wood decay)	C-5 Throughout the dwelling, the quality of construction
*C-2 In the under floor area, there has been structural alteration (e.g. cutting or notching of framing for	appears to be:
electrical, plumbing, mechanical equipment) that would affect the performance of the dwelling in an	a. good [0] b. average [0.8]
earthquake: yes [1.5]	c. poor [1.7]
no [0]	
not applicable [0] *C-3: There is evidence of: stucco detachment, bowing of stucco, corroded wire mesh, extensive cracking at finished grade above the bottom of the stucco:	
a. extensive [2.0]	
b. minor [1.0] c. none [0]	
	Total
D. Nonstructural Elements, Age, and Size	
*D-1 The chimney inspection revealed: a. properly connected anchor straps tying	*D-4 The dwelling has exterior stairs, decks or porch roofs, without internal earthquake bracing, that are attached to the dwelling with:
the masonry/concrete chimney(s) at side of house to the floor, ceiling and roof framing yes [1.0]	a. two or more connections tying the stair, deck or [0] porch to the dwelling interior framing
no [2.0] b. chimney occurs at dwelling interior [1.0]	b. nails or screws that would be loaded in withdrawal [1.0] if the stair deck or porch moved away from the dwelling
c. dwelling has no masonry/concrete chimney [0]	c. other connection configurations [1.0]
*D-2 The gas water heater has effective anchor straps and water and gas connections: yes [0] no [1.0]	D-5 The dwelling was built: (if remodel/added area >50% of total area, use addition date):
The electric water heater has approved anchor	a. before 1920 [3.0] b. 1921 to 1977 [2.0]
straps: yes [0]	c. 1978 to 1993 [1.0]
no [0.7]	d. 1994 or later [0]
*D-3 An earthquake-activated gas shut-off valve is installed: yes [0] no [1.0]	D-6 The approximate total floor area (sq. ft.) of the dwelling and attached garage is:
not applicable [0]	a. < 1600.
	c. ≥ 2501 [2.0]
	Total
*Assessment item that may be improved by seismic retrofit; see pa	
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E-1 The dwelling is located primarily on: a. a flat lot or slope (≤ 3:1) [0] b. steep slope (> 3:1) [3.0] [3.0] E-2 The dwelling is located on a cut-and-fill pad, which was developed: [2.7] a. without a geotechnical investigation [2.7] b. with a geotechnical investigation [1.3] c. dwelling is <i>not</i> on cut-and-fill pad [0] *E-3 The exterior concrete footing has: a. no visible cracks or a few minor cracks [0] b. minor cracks in several areas [1.0] c. extensive cracking [2.7] d. not applicable [0] F. Regional Seismic Hazard Score [0] F-1 Enter points for shaking hazard potential for location of dwelling (from Table 1). [] F-2 Are ground failure hazards to be looked up using Tables 2, 3, and 4? yes, go to F-3. no, proceed to F-6 and enter 4.0 points	Ε.	Local Site Conditions	
a. a flat lot or slope (< 3:1) [0] b. steep slope (> 3:1) [3.0] E-2 The dwelling is located on a cut-and-fill pad, which was developed: [3.0] a. without a geotechnical investigation [2.7] b. with a geotechnical investigation [1.3] c. dwelling is not on cut-and-fill pad [0] *E-3 The exterior concrete footing has: a. no visible cracks or a few minor cracks [0] b. minor cracks in several areas [1.0] c. extensive cracking [2.7] d. not applicable [0] F. Regional Seismic Hazard Score F-1 Enter points for shaking hazard potential for location of dwelling (from Table 1). [] F-2 Are ground failure hazards to be looked up using Tables 2, 3, and 4? yes, go to F-3. no, proceed to F-6 and enter 4.0 points 6, 8 4		Penalty	Penalty
E-2 The dowelling is located on a cut-and-fill pad, withou a geotechnical investigation [2.7] b. with a geotechnical investigation [1.3] c. dwelling is not on cut-and-fill pad [0] *E-3 The exterior concrete footing has: [0] a. no visible cracks or a few minor cracks [0] b. minor cracks in several areas [1.0] c. extensive cracking [2.7] d. not applicable [0] F-1 Enter points for shaking hazard potential for location of dwelling (from Table 1). [] F-2 Are ground failure hazards to be looked up using Tables 2, 3, and 4? yes, go to F-3. no, proceed to F-6 and enter 4.0 points	E-1	a. a flat lot or slope ($\leq 3:1$) [0]	the dwelling is: a. extensive [2.5]
b. with a geotechnical investigation [1.3] c. dwelling is not on cut-and-fill pad [0] *E-3 The exterior concrete footing has: [0] a. no visible cracks or a few minor cracks [0] b. minor cracks in several areas [1.0] c. extensive cracking [2.7] d. not applicable [0] extensive cracking [2.7] d. not applicable [0] F. Regional Seismic Hazard Score [1.3] F-1 Enter points for shaking hazard potential for location of dwelling (from Table 1). [] F-2 Are ground failure hazards to be looked up using Tables 2, 3, and 4? yes, go to F-3. no, proceed to F-6 and enter 4.0 points F-5 Is the dwelling located in a fault rupture zone	E-2		
*E-3 The extensive cracks or a few minor cracks [0] a. no visible cracks or a few minor cracks [1,0] b. minor cracks in several areas [1,0] c. extensive cracking [2,7] d. not applicable [0] extensive cracking [0] c. extensive cracking [2,7] d. not applicable [0] extensive cracking [0] c. not applicable [0] extensive cracking [0] c. not applicable [0] extensive cracking [0] f. Regional Seismic Hazard Score E-6. Ground Shaking Points F-1 Enter points for shaking hazard potential for location of dwelling (from Table 1). [] f2 Are ground failure hazards to be looked up using Tables 2, 3, and 4? yes, go to F-3. no, proceed to F-6 and enter 4.0 points f-5 Is the dwelling located in a fault rupture zone Is the dwelling located in a fault rupture zone		b. with a geotechnical investigation [1.3]	to be unstable: yes [3.2] no [0]
F-1 Enter points for shaking hazard potential for location of dwelling (from Table 1). [] F-2 Are ground failure hazards to be looked up using Tables 2, 3, and 4? 0 2 0 2 2 6, 8 4	*E-3	a.no visible cracks or a few minor cracks[0]b.minor cracks in several areas[1.0]c.extensive cracking[2.7]	 *E-6: General condition of site drainage: a. roof gutters and downspouts collecting and conducting water away from foundation b. water collecting at/near perimeter footing with no positive slope away from dwelling c. no roof gutters but drainage appears to be adequate or roof gutters with downspouts that empty into splash blocks
P-1 Enter points for shaking hazard potential for location of dwelling (from Table 1). [] F-2 Are ground failure hazards to be looked up using Tables 2, 3, and 4? 0 2 no, proceed to F-6 and enter 4.0 points F-5 Is the dwelling located in a fault rupture zone	F.	Regional Seismic Hazard Score	
F-2 Are ground failure hazards to be looked up using Tables 2, 3, and 4? 6, 8 9 9	F-1	Enter points for shaking hazard potential for location of dwelling (from Table 1).	0 2
for ground failure nazards (norm fable 4):	F-2	Tables 2, 3, and 4?yes, go to F-3.	6, 8 4
F-3 Is this dwelling located in a liquefaction zone (from Table 2) or landslide zone (from Table 3)? yes, go to F-4. no [0] F-6 Total ground failure points from F-2, F-4, or F-5 (no summation). []		or landslide zone (from Table 3)? yes, go to F-4. no, go to F-5.	F-6 Total ground failure points from F-2, F-4, or
F-4 Proceed to F-6 and enter ground failure hazard points in accordance with the following table: Total Seismic Hazard Score (Sum of F-1 and F-6)	F-4	Proceed to F-6 and enter ground failure hazard points in accordance with the following table:	Total Seismic Hazard Score (Sum of F-1 and F-6)

Table 1. Assignment of Ground Shaking Hazard Score

- Use the USGS Seismic Design Maps Web Application (<u>http://earthquake.usgs.gov/designmaps/us/application.php</u>)¹ to look up ground shaking parameter S_{DS}:
 - a. Press the 'Launch Application' button.
 - b. In the web application, select '2012 IBC' for the Building Code Reference Document.
 - c. Select 'Site Class D "Stiff Soil" (Default)' for the Site Soil Classification.
 - d. Enter the site address or latitude and longitude.
 - e. Press the 'Compute Values' button.
 - f. Read parameter S_{DS} from the summary report. Enter here: _____ g
 - g. Multiply value from 1f by 100: _____%g

2. Using the value from 1g, assign ground shaking points according to the following table (these points are assigned in Item F-1):

Value of S _{DS} (% g)	Ground Shaking Hazard Points
33 - 66.99	0
67 - 82.99	2
83 - 124.99	4
125 - 187.99	6
188 - 250	8

¹Note: If you are using the USGS application for the first time, or have recently cleared your web browser cookies, you may have to register for immediate use. Also, if you are using an anti-virus software program, you may have to enable some links to this site, e.g., if you receive a message that says "only secure content is displayed, "you must click on "show all content."

* Assessment item that may be improved by seismic retrofit; see page 6, Section H

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- 1. If site is in California, locate site on the California Emergency Management Agency (Cal EMA) MyPlan web site (<u>http://myplan.calema.ca.gov</u>).
 - a. Enter address in 'Find Location' window.
 - b. Select 'liquefaction' in menu bar to right of map.
 - c. Zoom as needed to see map details.
 - d. If site is located within green zone on map, answer to Question F-3 is 'yes'.
 - e. If site located in non-liquefaction and non-seismic landslide zone on map (generally pale yellow), answer to Question F-3 is 'no'.
 - f. Site not mapped if background is stippled. Go to Step (2).
- If site is not on Cal EMA web site, determine site liquefaction potential/susceptibility using available web resources. See http://www.ATCouncil.org/pdfs/FEMAP-50LiquefactionInfo.pdf for a list of such resources. Map types shown in these web resources are:
 - a. Liquefaction susceptibility maps. Answer to F-3 is 'yes' if site is in a zone of moderate-to-high liquefaction susceptibility. Answer is 'no' if in a low susceptibility or non-susceptible zone.
 - b. Liquefaction potential maps. Answer to F-3 is 'yes' if site is in a liquefaction potential zone. Answer is 'no' if in a low or null potential zone.
 - c. Liquefaction potential index (LPI) maps. Answer to F-3 is 'yes' if site is has mapped LPI \geq 5 and no if mapped LPI < 5.
- 3. If the location of the site has not been mapped, Question F-3 can be answered as 'yes' if other local information suggests liquefaction potential and 'no' if such information suggests no such hazards.
- 4. If no maps are available and no information on site conditions is available, answer question F-2 as 'no'.

Table 3. Assignment of Site as Being Within a Seismic Landslide Zone

- 1. If site is in California, attempt to locate site on the Cal EMA MyPlanweb site (http://myplan.calema.ca.gov).
 - a. Enter address in 'Find Location' window.
 - b. Select 'landslide' in menu bar to right of map.
 - c. Zoom as needed to see map details.
 - d. If site is located within brown zone on map, answer to Question F-3 is 'yes'.
 - e. If site located in non-seismic landslide zone on map (generally pale yellow), answer to Question F-3 is 'no'.
 - f. Site not mapped if background is stippled. Go to Step (2).
- If site is not on Cal EMA web site, determine site landslide potential/susceptibility using available web resources. See http://www.ATCouncil.org/pdf/FEMAP-50LandslideInfo.pdf for a list of such resources. Map types shown in these web resources are:
 - a. Seismic landslide susceptibility maps. Answer to F-3 is 'yes' if site is in a zone of moderate to high seismic landslide susceptibility. Answer is 'no' if in a low susceptibility or non-susceptible zone.
 - b. Seismic landslide potential maps. Answer to F-3 is 'yes' if site is in a seismic landslide potential zone. Answer is 'no' if in a low or null potential zone.
- 3. If the location of the site has not been mapped, Question F-3 can be answered as 'yes' if other local information suggests high landslide potential and 'no' if such information suggests no such hazards (e.g., flat site).
- 4. If no maps are available and no information on site conditions is available, answer question F-2 as 'No'.

Table 4. Assignment of Site as Being Within a Surface Fault Rupture Zone

- 1. If site is in California, locate site on the Cal EMA MyPlanweb site (<u>http://myplan.calema.ca.gov</u>).
 - a. Enter address in 'Find Location' window.
 - b. Select 'Fault Lines' in menu bar to right of map.
 - c. Zoom as needed to see map details.
 - d. If site is located within gray zone on map, answer to Question F-5 is 'yes'.
 - e. If site located in non-gray zone, answer to Question F-5 is 'no'.
 - f. Site not mapped if background is stippled. Go to Step (2).
- 2. If site is not on Cal EMA web site, locate site using USGS Quaternary faults web site (<u>https://geohazards.usgs.gov/qfaults/map.php</u>).
 - a. Select applicable state or region.
 - b. Zoom in on site and determine whether site is near a Quaternary fault that has been active within 15,000 years (marked as red or yellow on map).
 - c. Faults are only marked for map scales marked at the 1 km (or larger) level. At this level of zoom, Question F-5 can be answered as 'yes' if the mapped fault trace is within approximately 0.25 km of the site and 'no' otherwise.

Table 5. Seismic Performance Grade Based on Structural Score and Regional Seismic Hazard Score

Seismic Ha	zard Score	0 - 1	2 - 3	4 - 5	6 - 7	8 - 10	11 - 12
	1.0 - 45.9	B-	C+	С	D	D-	D-
	46.0 - 64.9	B+	В	C+	D+	D	D-
Structural Score	65.0 - 74.9	A-	B+	В	С	C-	D+
	75.0 - 84.9	A-	A-	B+	B-	С	С
	85.0 - 100	А	A	A-	B+	В	B-

G. Determination of Seismic Performance Grade

1.	. Structural Score		Penalty Sum	4. Anticipated Seismic Performance ¹		
	a.	Foundation (Section A)	[]	Following anticipated seismic events: ²		
	b.	Superstructure Framing and Configuration (Section B)	[]	Grade A , A-: Excellent Performer (Potential minor structural and finish damage, earthquake damage ratio ³ of 0%-10%, continued occupancy is likely)		
	C.	General Condition Assessment	[]			
	d.	Nonstructural Elements, Age, and Size (Section D)	[]	Grade B, B+, B-: Good Performer (Potential moderate structural and finish damage, continued occupancy likely following minor structural		
	e.	Local Site Conditions (Section E)	[]	repairs, earthquake damage ratio ³ of 0%-50%, seismic retrofit measures are encouraged)		
		Total Penalty Points (a to e):				
	Structural Score = (100 – Total Penalty points from line above): Seismic Hazard Score (from Section F):			Grade C, C+, C-: Fair Performer (Potential moderate to major structural and finish damage, structural repairs may be required prior to continued		
2.				occupancy, earthquake damage ratio ³ of 10%-60%, seismic retrofit measures are strongly encouraged)		
3.	(frc No	smic Performance Grade m Table 5) te: insert this grade, including + or -, if plicable in box on page 1		 seismic retrofit measures are strongly encouraged) Grade D, D+, D-: Poor Performer (Potential severe structure and finish damage requiring significant repairs prior to re-occupancy, earthquake damage ratio³ of 20% – 100%, significant seismic retrofit measures are strongly encouraged) Notes: Dwellings are generally anticipated but not certain to have the described performance. The occupancy levels described in this table are generally consistent with the damage levels presented. The anticipated seismic events are similar to those used to develop the earthquake ground-motion contours illustrated in the <i>International Residential Code</i> Seismic Design Category maps in Figures 2-1 to 2-4. Reported earthquake damage ratios are expressed as a percentage of the replacement cost of the dwelling. The damage ratio ranges were obtained from a stochastic computer model of dwellings adjusted to suit the stated structural scores and subjected to a wide range of simulated ground motions. The damage ratios were chosen to have a 1/500 likelihood of being exceeded in any given year for the stated range of sismic hazard score. The stochastic analysis is discussed in detail in Appendix D. 		

H. Improving the Seismic Performance Grade

The Structural Score and Seismic Performance Grade may be altered as a result of seismic retrofit or by a more in-depth seismic evaluation of the dwelling and the site by a qualified licensed design professional. Guidance on these issues is provided in Chapter 8.

If seismic retrofit is being considered, the Structural Score could be increased (and the Seismic Performance Grade potentially increased) by retrofitting conditions that would allow the elimination or reduction in penalties, if any, for the following items:

Item	Retrofit Description	Points (circle applicable number)	Priority Retrofit
A-1	Provide continuous reinforced concrete foundation	4.2	
A-3	Provide foundation pads under interior posts	1.4	Yes
A-5	Add anchor bolts or retrofit anchors	1.7 4.6 10.0 15.0	Yes
B-2	Add bracing walls at dwelling exterior	3.2	
B-3	Install lighter roofing	1.6 3.5	
B-4	Install plywood/OSB or steel frame at garage front	3.0	Yes
B-5	Change exterior wall finish	1.0 2.5 3.5	
B-8	Improve bracing at perimeter walls below lowest floor	4.0 7.0 14.0	Yes
C-2	Repair cut structural framing	1.5	
C-3	Repair deteriorated stucco	1.0 2.0	
C-4	Repair deteriorated foundation	0.6 1.3	
D-1	Strap exterior chimney to roof and floors	1.0	
D-2	Provide bracing and flexible water and gas connections for water heater	1.0	Yes
D-3	Provide earthquake-activated gas shut-off valves	1.0	Yes
D-4	Anchor exterior stairs, deck and porch roof	1.0	Yes
E-3	Repair footing cracks	1.0 2.7	
E-6	Improve rain water routing away from foundations	1.3 2.6	Yes

Priority Retrofits: For this dwelling, the Structural Score can be increased by as many as ______ "Priority Retrofit" points (insert sum of points for circled items in rows with "Yes" in Priority Retrofit column). This will increase Structural Score to ______ (Section G, Item 1f Structural Score plus "Priority" retrofit points). This will result in an improved Structural Grade of ______ (from Table 5, using improved Structural Score).

All Retrofits: For this dwelling, the Structural Score can be increased by as many as ______ retrofit points (insert sum of ALL points for circled items). This will increase the Structural Score to ______ (Section G, Item 1f structural score plus ALL points circled above). This will result in an improved Structural Grade of ______ (from Table 5, using improved Structural Score).

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