Appendix B

Data Collection Forms and Reference Guides

B.1 Level 1 and Level 2 Forms for Very High, High, Moderately High, Moderate, and Low Seismicity

Electronic versions of these forms are also available for download at www.atcouncil.org.

FEMA P-154 Data Collection Form

Level 1 **VERY HIGH Seismicity**

		Address:	
			Zip:
		Other Identifiers	St
		Building Name:	
		Use:	
		Latitude:	Longitude:
PHOTOGRAPH		Ss:	S ₁ :
		Screener(s):	Date/Time:
		No. Stories: Al	.bove Grade: Below Grade: Year Built: 🗆 EST
		Total Floor Area	ı (sq. ft.): Code Year:
			None Yes, Year(s) Built:
			Assembly Commercial Emer. Services Historic Shelter Industrial Office School Government Utility Warehouse Residential, # Units:
		Soil Type:	A B C D E F DNK
		Roc	ck Rock Soil Soil Soil
			ds: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK
		Adjacency:	☐ Pounding ☐ Falling Hazards from Taller Adjacent Building
		Irregularities:	☐ Vertical (type/severity) ☐ Plan (type)
		Exterior Falling Hazards:	☐ Parapets ☐ Appendages
			Other:
		COMMENTS:	
SKETCH		☐ Additional ske	etches or comments on separate page
BASIC SCO	RE, MODIFIER	S, AND FINAL	LEVEL 1 SCORE, S _{L1}
FEMA BUILDING TYPE Do Not Know W1 W1A W	2 S1 S2 (BR)	\$3 \$4 \$5 (LM) (RC (UR SW) INF	RM (MRF) (SW) (URM (TU) (FD) (RD)
Basic Score 2.1 1.9 1.	8 1.5 1.4	1.6 1.4 1.2	
Severe Vertical Irregularity, V_{L1} -0.9 -0.9 -0.		-0.8 -0.7 -0.	
Moderate Vertical Irregularity, V_{L1} -0.6 -0.5 -0. Plan Irregularity, P_{L1} -0.7 -0.7 -0.		-0.5 -0.4 -0.3 -0.6 -0.4 -0.4	
Plan Irregularity, P_{L1} -0.7 -0.7 -0.7 -0.8 -0.3 -0.3 -0.8		-0.6 -0.4 -0.7	
Post-Benchmark 1.9 1.9 2.		1.1 1.5 NA	
Soil Type A or B 0.5 0.5 0.		0.4 0.3 0.2	
Soil Type E (1-3 stories) 0.0 -0.2 -0.		-0.2 -0.2 -0.	
Soil Type E (> 3 stories) -0.4 -0.4 -0.4 Minimum Score, S _{MIN} 0.7 0.7 0.		NA -0.3 -0. 0.5 0.5 0.5	
FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$:	, 0.0 0.0	0.0 0.0 0.3	0 0.0 0.0 0.0 0.2 0.2 0.3 0.3 0.2 1.0
EXTENT OF REVIEW	OTHER HAZA	RDS	ACTION REQUIRED
Exterior: Partial All Sides Aerial	Are There Hazards		Detailed Structural Evaluation Required?
Interior: None Visible Entered	Detailed Structural	Evaluation?	Yes, unknown FEMA building type or other building
Drawings Reviewed: ☐ Yes ☐ No Soil Type Source:		itial (unless S _{L2} >	Yes, score less than cut-off
Geologic Hazards Source:	cut-off, if known	i) from taller adjacent	Yes, other hazards present No
Contact Person:	building	•	Detailed Nonstructural Evaluation Recommended? (check one)
LEVEL 2 SCREENING PERFORMED?		ds or Soil Type F	Yes, nonstructural hazards identified that should be evaluated
	Significant dama	age/deterioration to stem	No, nonstructural hazards exist that may require mitigation, but a
\square Yes, Final Level 2 Score, S_{L2} \square No Nonstructural hazards? \square Yes \square No	and datastarar by		detailed evaluation is not necessary No, no nonstructural hazards identified DNK
	reener shall note the	following: FST = F	Estimated or unreliable data OR DNK = Do Not Know
	Reinforced concrete		einforced masonry infill MH = Manufactured Housing FD = Flexible diaphragm

Level 2 (Optional)

Bldg Name:	Final Level 1 Score:	S _{L1} =	(do not consider S _{MIN})
Screener:	Level 1 Irregularity Modifiers:	Vertical Irregularity, V_{L1} =	Plan Irregularity, P_{L1} =
Date/Time:	ADJUSTED BASELINE SCORE:	$S' = (S_{L1} - V_{L1} - P_{L1}) =$	

STRUCTURAL MODIFIERS TO ADD TO ADJUSTED BASELINE SCORE		
Topic Statement (If statement is true, circle the "Yes" modifier; otherwise cross out the modifier.)	Yes	Subtotals
Vertical Sloping W1 building: There is at least a full story grade change from one side of the building to the other.	-0.9	
Irregularity, V_{L2} Site Non-W1 building: There is at least a full story grade change from one side of the building to the other.	-0.2	
Weak W1 building cripple wall: An unbraced cripple wall is visible in the crawl space.	-0.5	
and/or W1 house over garage: Underneath an occupied story, there is a garage opening without a steel moment frame,		
Soft Story and there is less than 8' of wall on the same line (for multiple occupied floors above, use 16' of wall minimum).	-0.9	
(circle one W1A building open front: There are openings at the ground story (such as for parking) over at least 50% of the		
maximum) length of the building.	-0.9	
Non-W1 building: Length of lateral system at any story is less than 50% of that at story above or height of any		
story is more than 2.0 times the height of the story above.	-0.7	
Non-W1 building: Length of lateral system at any story is between 50% and 75% of that at story above or height	0.4	
of any story is between 1.3 and 2.0 times the height of the story above.	-0.4	
Setback Vertical elements of the lateral system at an upper story are outboard of those at the story below causing the diaphragm to cantilever at the offset.	-0.7	
Vertical elements of the lateral system at upper stories are inboard of those at lower stories.	-0.7	
There is an in-plane offset of the lateral elements that is greater than the length of the elements.	-0.4	
Short C1,C2,C3,PC1,PC2,RM1,RM2: At least 20% of columns (or piers) along a column line in the lateral system have	-0.2	
Column/ height/depth ratios less than 50% of the nominal height/depth ratio at that level.	-0.4	
Pier C1,C2,C3,PC1,PC2,RM1,RM2: The column depth (or pier width) is less than one half of the depth of the spandrel,	0.1	
or there are infill walls or adjacent floors that shorten the column.	-0.4	
Split Level There is a split level at one of the floor levels or at the roof.	-0.4	
Other There is another observable severe vertical irregularity that obviously affects the building's seismic performance.	-0.7	V _{L2} =
Irregularity There is another observable moderate vertical irregularity that may affect the building's seismic performance.	-0.4	(Cap at -0.9)
Plan Torsional irregularity: Lateral system does not appear relatively well distributed in plan in either or both directions. (Do not		
Irregularity, P _{L2} include the W1A open front irregularity listed above.)	-0.5	
Non-parallel system: There are one or more major vertical elements of the lateral system that are not orthogonal to each other.	-0.2	
Reentrant corner: Both projections from an interior corner exceed 25% of the overall plan dimension in that direction.	-0.2	
Diaphragm opening: There is an opening in the diaphragm with a width over 50% of the total diaphragm width at that level.	-0.2	_
C1, C2 building out-of-plane offset: The exterior beams do not align with the columns in plan.	-0.2	P _{L2} =
Other irregularity: There is another observable plan irregularity that obviously affects the building's seismic performance.	-0.5	(Cap at -0.7)
Redundancy The building has at least two bays of lateral elements on each side of the building in each direction. Pounding Building is separated from an adjacent structure The floors do not align vertically within 2 feet. (Cap total	+0.2	
Pounding Building is separated from an adjacent structure by less than 1.5% of the height of the shorter of by less than 2.5% of the height of the shorter of by less than 2.5% of the height of the shorter of by less than 3.5% of the shorter of by less than 3.5% of the height of the shorter of by	-0.7 -0.7	
the building and adjacent structure and: The building is at the end of the block. The building is at the end of the block. The building is at the end of the block.	-0.7	
S2 Building "K" bracing geometry is visible.	-0.4	
C1 Building Flat plate serves as the beam in the moment frame.	-0.3	
PC1/RM1 Bldg There are roof-to-wall ties that are visible or known from drawings that do not rely on cross-grain bending. (Do not combine with	0.0	
post-benchmark or retrofit modifier.)	+0.2	
PC1/RM1 Bldg The building has closely spaced, full height interior walls (rather than an interior space with few walls such as in a warehouse).	+0.2	
URM Gable walls are present.	-0.3	
MH There is a supplemental seismic bracing system provided between the carriage and the ground.	+0.5	
Retrofit Comprehensive seismic retrofit is visible or known from drawings.	+1.2	M =
, - LL	Transfer	to Level 1 form)
There is observable damage or deterioration or another condition that negatively affects the building's seismic performance:		
If yes, describe the condition in the comment box below and indicate on the Level 1 form that detailed evaluation is required independent of the buildin	g's score	
OBSERVABLE NONSTRUCTURAL HAZARDS		

OBSERVABL	E NONSTRUCTURAL HAZARDS			
Location	Statement (Check "Yes" or "No")	Yes	No	Comment
Exterior	There is an unbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney.			
	There is heavy cladding or heavy veneer.			
	There is a heavy canopy over exit doors or pedestrian walkways that appears inadequately supported.			
	There is an unreinforced masonry appendage over exit doors or pedestrian walkways.			
	There is a sign posted on the building that indicates hazardous materials are present.			
	There is a taller adjacent building with an unanchored URM wall or unbraced URM parapet or chimney.			
	Other observed exterior nonstructural falling hazard:			
Interior	There are hollow clay tile or brick partitions at any stair or exit corridor.			
	Other observed interior nonstructural falling hazard:			
Estimated Nonst	tructural Seismic Performance (Check appropriate box and transfer to Level 1 form conclusions)			
	□ Potential nonstructural hazards with significant threat to occupant life safety →Detailed Nonstructural			
	☐ Nonstructural hazards identified with significant threat to occupant life safety → But no Detailed Nor	nstructura	ıl Evaluat	ion required
	□ Low or no nonstructural hazard threat to occupant life safety →No Detailed Nonstructural Evaluation	n require	d	

Comments:		

FEMA P-154 Data Collection Form

Level 1 HIGH Seismicity

											Add	dress: _										
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											Oth	er Identi	fiers:									
											Buil	lding Na	me:									
											Use): 										
											Lati	itude:					Longitu	ude:				
					PHOT	OGRA	PH															
											Scr	eener(s)	:				D	Date/Time	e:			
											No.	Stories:	Abov	e Grade	e:	Belov	w Grade	e:	Yea	r Built:	ı	□ EST
											Tota	al Floor	Area (so	դ. ft.)։		_		-	Code	Year:		
											Add	ditions:	□ N	one [Yes, Y	'ear(s) B	Built:					
											Occ	cupancy:	Asse	embly	Comme	rcial	Emer. S	Services	□н	istoric	☐ Shelf	ter
												-		strial	Office		School		_	overnmer	nt	
													Utilit	ty	Wareho	use	Reside	ntial, #Ur	nits:			
											Soil	l Type:	□A	□В	(]D [JE [NK	_	_
											-		Hard Rock	Avg Rock	Dens Soi				oor <i>If</i> Soil	DNK, ass	ите Туре	D.
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												acency:			ounding			Hazards fr		-	t Building	
											Irre	gularitie	s:	□ Ve	ertical (ty lan (type)	oe/sever	rity)			***************************************		•
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												ards:	iiig		arapets	O I III I I I I I I	/3		oendages		cavy vei	icci
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											СО	MMENT	S:									
					SK	ETCH						Additiona	al sketch	es or cor	mments o	n separa	ate page	Э				
							BASIC	sco	RE, MO	DIFIER	RS, A	ND FIN	IAL LE	VEL '	1 SCO	RE, S	L1					
FEMA BUI	LDING	TYPI	E	ı	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LM)	S4 (RC SW)	S5 (URM INF)	C1 (MRF)	C2 (SW)	C3 (URM INF)	PC1 (TU)	PC2	RM1 (FD)	RM2 (RD)	URM	МН
Basic Sco	re					3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Ver	tical Ir					-1.2		-1.2		-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate V	/ertica	l Irregi				-0.7	-0.7	-0.7		-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregu	larity,	P _{L1}				-1.1	-1.0	-1.0		-0.7	-0.9	-0.7	-0.6	-0.6	-0.8	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA 0.4
Pre-Code Post-Bench	nmark					-1.1 1.6	-1.0 1.9	-0.9 2.2		-0.6 1.4	-0.8 1.1	-0.6 1.9	-0.2 NA	-0.4 1.9	-0.7 2.1	-0.1 NA	-0.5 2.0	-0.3 2.4	-0.5 2.1	-0.5 2.1	0.0 NA	-0.1 1.2
Soil Type A						0.1	0.3	0.5		0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E		stories	i)			0.2	0.2	0.1		-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E)			-0.3	-0.6	-0.9		-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum S	core,	S _{MIN}				1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.5	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.2	1.0
FINAL LE	VEL	. 1 \$0	ORE	, S _{L1}	≥ Smin	ı:																
EXTEN	T O	F RE	VIE	W					OTHE	R HAZ	ARDS	3		ACT	ION R	EQUIF	RED					
Exterior:				Partial			es 🔲 Ae		Are Ther				١	Detail	ed Struc	tural Ev	aluation	n Require	ed?			
Interior:	Devil	. له میره	_	None	_	Visible	☐ En	tered	Detailed									ing type o	r other b	uilding		
Drawings Soil Type				1 C2		INU			_	nding pote		nless S _{L2}	>		es, score es, other							
Geologic			urce:	:						off, if know ng hazard:	,	aller adia	cent			⊓a∠aſUS	hieseill	ı				
Contact P	ersor	1:							build	ing		•				tructura	l Evalua	ation Rec	ommen	ded? (ch	eck one)	
LEVE	2 0	CDC			EDE	OBM	ED2			ogic haza								identified		•	,	
LEVEL	_			_		UKIVI		.		ificant dan tructural s		olibatoratio	וו נט	□ No	o, nonstri	uctural h	azards (exist that				ta
Yes, F							_ 📙 '		110 3	aotaiai 3	,,000111							ecessary				
Nonstructu	ıraı ha			□ \											•			ds identifi	_	_ DNK		
	_	V	Vhere	inforn	nation	canno	be verifi	ed, scr	eener sha	ll note the	follow	ving: ES	T = Esti	mated o	r unrelia	ble data	OR	DNK = D	o Not Ki	now		

Level 2 (Optional)

Bldg Name:	Final Level 1 Score:	S _{L1} =	(do not consider S _{MIN})
Screener:	Level 1 Irregularity Modifiers:	Vertical Irregularity, V _{L1} =	Plan Irregularity, P_{L1} =
Date/Time:	ADJUSTED BASELINE SCORE:	$S' = (S_{L1} - V_{L1} - P_{L1}) =$	

Vertical Sloping With building There is at least at list story added the property of the	STRUCTURA	MODIFIER	RS TO ADD TO ADJUSTED BASELINE SCORE		
Vertical Inregularity, V ₂ Site North-Wibulding. There is at least at flust stary grade change from one side of the building to the other. -0.3				Yes	Subtotals
Sile					
Weak and/or Wit building cripple well: An unbraced cripple well: wisble in the crawl space. -0.6 and/or official cone official co		1 0	Non-W1 building: There is at least a full story grade change from one side of the building to the other		1
and/or Soft Story (circle one maximum)	inogularity, V _{L2}				1
Soft Story (circle one (circle one maximum) With Foulding open front: There are openings at the ground story (such as for parking) over at least 50% of the analysis of the length of the building. Non-WT building: Length of lateral system at any story is less than 50% of that at story above or height of any story is between 1.3 and 2.0 times the height of the story above. Setback Vertical elements of the lateral system at an upper store are inboard of those at the story below causing the diaphragm to cantillever at the offset. Vertical elements of the lateral system at an upper store are inboard of those at the story below causing the diaphragm to cantillever at the offset. Vertical elements of the lateral system at an upper store are inboard of those at lower stories. Obs. There is an in-plane offset of the lateral elements that is greater than the length of the elements. O.5 Short C (1.2.C.3 PCI.PC2.RMI RM2. At least 20% of columns (or piers) along a column line in the lateral system have height depth and its less than 50% of the mominal height/depth ratio at that level. Other There is a sinchler observable severe vertical irregularity hat may affect the building's seismic performance. There is an in-plantally is severe vertical irregularity hat may affect the building's seismic performance. There is an opening in the diaphragm with a width over 50% of the total diaphragm width at that level. Oct. C2 building out-of-plane offset. The active comes may one vertical irregularity hat may affect the building's seismic performance. Other irregularity. There is an opening in the diaphragm with a width over 50% of the total diaphragm width at that level. Oct. C2 building out-of-plane offset. The extentor comes exceed 25% of the overall plan dimension in that direction. Other irregularity. There is an opening in the diaphragm with a width over 50% of the total diaphragm width at that level. Oct. C2 building out-of-plane offsets the submitted in plan in either or both directions. One building is a sep			0 11	0.0	i
Cicicle one maximum Nirabuliding. Ength of the building. Nor-WT building: Length of the building. Nor-WT building: Length of flateral system at any story is between 50% of that at story above or height of any story is between 13 and 2.0 times the height of the story above. Nor-WT building: Length of flateral system at an upper stories are inboard of those at the story above or height of any story is between 13 and 2.0 times the height of the story above. Nor-WT building: Length of flateral system at an upper stories are inboard of those at the story below causing the diaphragm to cantilever at the offset. Vertical elements of the lateral system at an upper stories are inboard of those at lower stories. -0.5				-12	
length of the building. length of lateral system at any story is less than 50% of that at story above or height of any story is before the 2.0 times the height of the story above. 0.5				1.2	i
story is more than 2.0 times the height of the story above. Non-Wit building: Length of lateral system at an upper story is between 50% and 75% of that at story above or height of any story is between 1.3 and 2.0 times the height of the story above. Setback Vertical elements of the lateral system at an upper story are outboard of those at the story below causing the diaphragm to cantilever at the offset.		,		-1.2	
story is more than 2.0 times the height of the story above. Non-Wit building: Length of lateral system at an upper story is between 50% and 75% of that at story above or height of any story is between 1.3 and 2.0 times the height of the story above. Setback Vertical elements of the lateral system at an upper story are outboard of those at the story below causing the diaphragm to cantilever at the offset.			Non-W1 building: Length of lateral system at any story is less than 50% of that at story above or height of any		
Non-W1 building: Length of lateral system at any story is between 50% and 75% of that at story above or height of any story is between 1.3 and 2.0 times the height of the story above. Setback Vertical elements of the lateral system at an upper stories are inboard of those at the story below causing the diaphragm to cantiliever at the offset. Vertical elements of the lateral system at an upper stories are inboard of those at lower stories.				-0.9	
Of any story is between 1.3 and 2.0 times the height of the story above. O.5			Non-W1 building: Length of lateral system at any story is between 50% and 75% of that at story above or height		
diaphragm to cantilever at the offset. 1-1.0 Vertical elements of the lateral system at upper stories are inboard of those at lower stories. 0-5.5				-0.5	
diaphragm to cantilever at the offset. 1-1.0 Vertical elements of the lateral system at upper stories are inboard of those at lower stories. 0-5.5		Setback	Vertical elements of the lateral system at an upper story are outboard of those at the story below causing the		
There is an in-plane offset of the lateral elements that is greater than the length of the elements. Short C1,C2,C3,PC1,PC2,RM1,RM2. At least 20% of columns (or piers) along a column line in the lateral system have heightidepth ratios less than 50% of the nominal heightidepth ratio at that level. Oct. C2,C3,PC1,PC2,RM1,RM2. The column depth (or pier width) is less than one half of the depth of the spandrel, or there are infill walls or adjacent floors that shorten the column. Split Level There is a split level at one of the floor levels or at the roof. Other There is another observable moderate vertical irregularity that may affect the building's seismic performance. 1.0 (Cap at -1.2) Plan Irregularity, P12 Irregularity, P12 Non-parallel system: There are one or more major vertical elements of the lateral system that are not orthogonal to each other. Non-parallel system: There are one or more major vertical elements of the lateral system that are not orthogonal to each other. Oct. C2 building out-of-plane offset: The exterior beams do not align with the columns in plan. Oct. C1, C2 building out-of-plane offset: The exterior beams do not align with the columns in plan. Pounding Building is separated from an adjacent structure by less than a 1% of the height of the shorter of the building is 2 or more stories taller than the other. pounding by less than 1% of the height of the shorter of the building is 2 or more stories taller than the other. pounding 1-10. PC1/RM1 Bldg The building has at least two bays of lateral elements on each side of the building in each direction. PC1/RM1 Bldg The building has a least we say the beam in the moment frame. PC1/RM1 Bldg The building has a least we say the beam in the moment frame. PC1/RM1 Bldg The building has a least very an each side of the building in each direction. PC1/RM1 Bldg The building has alleast the shorter of the building is 2 or more stories taller than the other. pounding 1-10. PC1/RM1 Bldg The building has closely spaced, full height interio			diaphragm to cantilever at the offset.		
Short C.1.C.2.C.3.P.C.1.P.C.2.RM1.RM2: At least 20% of columns (or piers) along a column line in the lateral system have height/depth ratios less than 50% of the nominal height/depth ratio at that level. 0.5 C.1.C.2.C.3.P.C.1.P.C.2.RM1.RM2: The column depth (or pier width) is less than one half of the depth of the spandrel, or there are infill walls or adjacent floors that shorten the column. 0.5 Other There is a split level at one of the floor levels or at the roof. 0.5 Other There is another observable severe vertical irregularity that obviously affects the building's seismic performance. 0.5 (Cap at -1.2) There is another observable moderate vertical irregularity that may affect the building's seismic performance. 0.5 (Cap at -1.2) There is another observable moderate vertical irregularity that may affect the building's seismic performance. 0.5 (Cap at -1.2)			Vertical elements of the lateral system at upper stories are inboard of those at lower stories.	-0.5	
Column/ Peier C1,C2,C3,PC1,PC2,RM1,RM2: The column depth (or pier width) is less than one half of the depth of the spandrel, or there are infill walls or adjacent floors that shorten the column. 0.5				-0.3	
Pier C1,C2,C3,PC1,PC2,RM1,RM2. The column depth (or pier width) is less than one half of the depth of the spandrel, or there are infill walls or adjacent floors that shorten the column. Split Level There is a split level at one of the floor levels or at the roof. Other Interegularity There is another observable moderate vertical irregularity that obviously affects the building's seismic performance. 1.0 V _{1,2} = Torsional irregularity. Phree is another observable moderate vertical irregularity that nay affect the building's seismic performance. 1.0 V _{1,2} = Torsional irregularity: Lateral system does not appear relatively well distributed in plan in either or both directions. (Do not include the W1A open front irregularity listed above.) Non-parallel system: There are one or more major vertical elements of the lateral system that are not orthogonal to each other. Quite include the W1A open front irregularity listed above.) Non-parallel system: There are one or more major vertical elements of the lateral system that are not orthogonal to each other. Quite include the W1A open front irregularity listed above.) Non-parallel system: There are one or more major vertical elements of the lateral system that are not orthogonal to each other. Quite include the W1A open front irregularity listed above.) The violating out-of-plane offset: The exterior beams do not align with the columns in plan. Quite irregularity. There is an opening in the diaphragm with a width over 50% of the total diaphragm width at that level. Quite irregularity. There is an opening in the diaphragm with a width over 50% of the total diaphragm width at that level. Quite irregularity. There is an opening in the diaphragm with a width over 50% of the total diaphragm width at that level. Quite irregularity. Plan is guite irregularity that obviously affects the building's seismic performance. Quite irregularity. Plan is guite irregularity. There is an opening in the diaphragm with a width over 50% of the total diaphragm width at that		Short	C1,C2,C3,PC1,PC2,RM1,RM2: At least 20% of columns (or piers) along a column line in the lateral system have		
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There is another observable severe vertical irregularity that obviously affects the building's seismic performance.					
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OBSERVABLE NONSTRUCTURAL HAZARDS					
	If yes, describe th	e condition in t	the comment box below and indicate on the Level 1 form that detailed evaluation is required independent of the buildir	ng's score	<u>.</u>
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OBSERVABL	E NONSTRUCTURAL HAZARDS			
Location	Statement (Check "Yes" or "No")	Yes	No	Comment
Exterior	There is an unbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney.			
	There is heavy cladding or heavy veneer.			
	There is a heavy canopy over exit doors or pedestrian walkways that appears inadequately supported.			
	There is an unreinforced masonry appendage over exit doors or pedestrian walkways.			
	There is a sign posted on the building that indicates hazardous materials are present.			
	There is a taller adjacent building with an unanchored URM wall or unbraced URM parapet or chimney.			
	Other observed exterior nonstructural falling hazard:			
Interior	There are hollow clay tile or brick partitions at any stair or exit corridor.			
	Other observed interior nonstructural falling hazard:			
Estimated Nons	tructural Seismic Performance (Check appropriate box and transfer to Level 1 form conclusions)			
	□ Potential nonstructural hazards with significant threat to occupant life safety → Detailed Nonstructu			
	☐ Nonstructural hazards identified with significant threat to occupant life safety → But no Detailed Non			ion required
	□ Low or no nonstructural hazard threat to occupant life safety →No Detailed Nonstructural Evaluatio	n required	t	

Comments:			

FEMA P-154 Data Collection Form

Level 1 MODERATELY HIGH Seismicity

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	imum S						1.6	1.2	0.	8	0.5	0.5	0.9	0.5	0.5	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4
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Level 2 (Optional)

Bldg Name:	Final Level 1 Score:	S_{L1} =	(do not consider S_{MIN})
Screener:	Level 1 Irregularity Modifiers:	Vertical Irregularity, V _{L1} =	Plan Irregularity, P_{L1} =
Date/Time:	ADJUSTED BASELINE SCORE:	$S' = (S_{11} - V_{11} - P_{11}) =$	

Topic Statement fit distellment is true, cricie the "Yes" moulder, otherwise cross out the modifier.) Yes Subtotals Vertical Stoping Wit building: There is at least at full story grade change from one side of the building to the other. -1.3 Inregularly, V. V. Vertical Weak Wit building: There is at least at full story grade change from one side of the building to the other. -1.3 Vertical	STRUCTURAL MODIFIERS TO ADD TO ADJUSTED BASELINE SCORE									
Varied Sloping Wit building: There is at least at flust sty grade change from one side of the building to the other. -0.3								Voc	Subtotals	
Size	•				other				Gustotuis	
Weak						ar				
and/or Will house over garage: Underneath an occupied story, there is a garage opening without a steel moment frame, and there is less than 8° of wall on the same line (for multiple occupied floors above, use 16° of wall minimum). 1.3 Non-Will building open front: There are openings at the ground story (such as for parking) over at least 50% of the length of the building. 1.3 Non-Will building: Length of lateral system at any story is less than 50% of that at story above or height of any story is more than 2.0 times he height of the story above. 1.0 Setback Vertical elements of the lateral system at any story is between 50% and 75% of that at story above or height of any story is between 1.3 and 2.0 times the height of the story above. 1.0 Setback Vertical elements of the lateral system at any story is between 50% and 75% of that at story above or height of any story is between 1.3 and 2.0 times the height of the story above. 1.0 Short Column's to cartificever at the offset. 1.0 Yorkical elements of the lateral system at any story is between 50% and 75% of the lateral system at 100% of 100% or 100% of the story above. 1.0 Short Column's height-dipth rates less than 50% of the nominal height-dipth and the lements. 1.0.5 There is an in-plane offset of the lateral system at 100% or 100% or there are infill walls or adjacent floors that shorten the column. 1.0 Split Level There is another observable over vertical irregularity that obviously affects the building's seismic performance. 1.0 Other Interest is another observable severe vertical irregularity that pay affect the building's seismic performance. 1.0 Irregularity, P.12 Plan Irregularity, P.12 Plan Irregularity, P.12 Plan Irregularity. Plane is another observable moderate vertical irregularity that may affect the building's seismic performance. 1.0.5 Other irregularity. There is another observable above. 1.0 Plane Irregularity. Plane is another observable and ose not appear reliatively well distributed in plan in lateral critical disphragm wit	irrogularity, VL2				J tile Otile	JI.				
Soft Story (circle one maximum) And there is less than 8 of wall on the same line (for multiple occupied floors above, use 16 of wall minimum). If a building open front: There are openings at the ground story (such as for parking) over at least 50% of the length of the building. Ano-WT building: Length of lateral system at any story is less than 50% of that at story above or height of any story is buttenen 1.3 and 20 limes the height of the story above. Non-WT building: Length of lateral system at any story is between 50% and 75% of that at story above or height of any story is between 1.3 and 20 limes the height of the story above. Non-WT building: Length of lateral system at any story is between 50% and 75% of that at story above or height of any story is between 1.3 and 20 limes the height of the story above. Vertical elements of the lateral system at any story is between 50% and 75% of that at story above or height of any story is between 1.3 and 20 limes the height of the story above. Vertical elements of the lateral system at any story is between 50% and 75% of that at story above or height of any story is between 1.3 and 20 limes the height of the story above. Vertical elements of the lateral system at any story is between 50% and 75% of that at story above or height of any story is between 1.3 and 20 limes the height of the story above. Possibly and the story above or height of any story is between 50% and 75% of that at story above or height of any story is between 1.3 and 20 limes the story between 1.3 and 20 limes the					stool m	oment fran	me .	-0.0		
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Non-W1 building: Length of lateral system at any story is between 60% and 75% of that at story above or height of any story is between 1.3 and 2.0 times the height of the story above. 4.0.5			Non-W1 building: Length of lateral sy	stem at any story is less than 50% of that at story ab	ove or he	eight of an	у			
Of any story is between 1.3 and 2.0 times the height of the story above. O.5								-1.0		
Setback Vertical elements of the lateral system at an upper story are outboard of those at the story below causing the diaphragm to cantillever at the offset. Vertical elements of the lateral system at upper stories are inboard of those at lower stories. There is an in-plane offset of the lateral elements that is greater than the length of the elements. Column/ Pier C1,C2,C3,PC1,PC2,RM1,RM2. ** It least 20% of columns (or piers) along a column in the lateral system have height/depth ratios less than 50% of the nominal height/depth ratio at that level. Other are infill walls or adjacent floors that shorten the column. Split Level There is a split level at one of the floor levels or at the roof. Other Irregularity There is another observable sever vertical irregularity that may affect the building's seismic performance. Irregularity, P2 include the W1A open front irregularity lead above.) Non-parallel system: There are one or more major vertical elements of the lateral system that are no orthogonal to each other. Palma Torsional irregularity: Lateral system does not appear relatively well distributed in plan in either or both directions. (Do not include the W1A open front irregularity lead above.) Non-parallel system: There are one or more major vertical elements of the lateral system that are no orthogonal to each other. Palma Torsional irregularity: There is an opening in the diaphragm with a width over 50% of the total diaphragm width at that level. Other irregularity: There is another observable plan irregularity that obviously affects the building's seismic performance. Other irregularity: There is another observable plan irregularity that over 50% of the total diaphragm width at that level. Other irregularity: There is another observable plan irregularity that obviously affects the building's seismic performance. Other irregularity: There is another observable plan irregularity that obviously affects the building's seismic performance. Other irregularity: There is another observa					story ab	ove or hei	ght	0.5		
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Vertical elements of the lateral system al upper stories are inboard of those at lower stories. -0.5		Setback	,	n at an upper story are outboard of those at the story	pelow ca	lusing the	ļ	1.0		
There is an in-plane offset of the lateral elements that is greater than the length of the elements. C1,C2,C3,PC1,PC2,RM1,RM2: The column depth (or pier width) is least than 10% of the nominal height/depth ratios less than 50% of the nominal height/depth ratios at that level. C1,C2,C3,PC1,PC2,RM1,RM2: The column depth (or pier width) is less than one half of the depth of the spandrel, or there are infill walls or adjacent floors that shorten the column. Split Level There is a split level at one of the floor levels or at the roof.				a at upper stories are inheard of these at lower stories						
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or there are infill walls or adjacent floors that shorten the column. Spit Level There is a spit level at one of the floor levels or at the roof. 0.5					e depth o	of the spar	ndrel.			
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MH There is a supplemental seismic bracing system provided between the carriage and the ground. +1.2 Retrofit Comprehensive seismic retrofit is visible or known from drawings. +1.4 FINAL LEVEL 2 SCORE, $S_{L2} = (S' + V_{L2} + P_{L2} + M) ≥ S_{MIN}$: (Transfer to Level 1 form) There is observable damage or deterioration or another condition that negatively affects the building's seismic performance:				valls (rather than an interior space with few walls such	n as in a	warehous	e).			
Retrofit Comprehensive seismic retrofit is visible or known from drawings. $+1.4$ $M = _$ FINAL LEVEL 2 SCORE, $S_{L2} = (S' + V_{L2} + P_{L2} + M) \ge S_{MIN}$: $(Transfer to Level 1 form)$ There is observable damage or deterioration or another condition that negatively affects the building's seismic performance: \Box Yes \Box No If yes, describe the condition in the comment box below and indicate on the Level 1 form that detailed evaluation is required independent of the building's score. OBSERVABLE NONSTRUCTURAL HAZARDS Location Statement (Check "Yes" or "No") Yes No Comment				21-11-1						
FINAL LEVEL 2 SCORE, $S_{L2} = (S' + V_{L2} + P_{L2} + M) \ge S_{MIN}$: There is observable damage or deterioration or another condition that negatively affects the building's seismic performance: \square Yes \square No If yes, describe the condition in the comment box below and indicate on the Level 1 form that detailed evaluation is required independent of the building's score. OBSERVABLE NONSTRUCTURAL HAZARDS Location Statement (Check "Yes" or "No") Yes No Comment		1,1							M=	
There is observable damage or deterioration or another condition that negatively affects the building's seismic performance: \[\text{Yes} \] No If yes, describe the condition in the comment box below and indicate on the Level 1 form that detailed evaluation is required independent of the building's score. OBSERVABLE NONSTRUCTURAL HAZARDS		Completionare administration and administration administration and administration administration and administration adminis								
If yes, describe the condition in the comment box below and indicate on the Level 1 form that detailed evaluation is required independent of the building's score. OBSERVABLE NONSTRUCTURAL HAZARDS Location Statement (Check "Yes" or "No") Yes No Comment								Transfer	to Level 1 form)	
OBSERVABLE NONSTRUCTURAL HAZARDS Location Statement (Check "Yes" or "No") Yes No Comment										
Location Statement (Check "Yes" or "No") Yes No Comment	ıт yes, describe th	e condition in	the comment box below and indicate on	the Level 1 form that detailed evaluation is required	independ	aent of the	building	g's score	•	
Location Statement (Check "Yes" or "No") Yes No Comment	OBSERVARI	F NONSTR	IICTURAL HAZARDS							
					Yes	No		Com	ment	
			,	or unbraced unreinforced masonry chimnev.	- 50			2		

OBSERVABL	OBSERVABLE NONSTRUCTURAL HAZARDS							
Location	Statement (Check "Yes" or "No")	Yes	No	Comment				
Exterior	There is an unbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney.							
	There is heavy cladding or heavy veneer.							
	There is a heavy canopy over exit doors or pedestrian walkways that appears inadequately supported.							
	There is an unreinforced masonry appendage over exit doors or pedestrian walkways.							
	There is a sign posted on the building that indicates hazardous materials are present.							
	There is a taller adjacent building with an unanchored URM wall or unbraced URM parapet or chimney.							
	Other observed exterior nonstructural falling hazard:							
Interior	There are hollow clay tile or brick partitions at any stair or exit corridor.							
	Other observed interior nonstructural falling hazard:							
Estimated Nonst	ructural Seismic Performance (Check appropriate box and transfer to Level 1 form conclusions)							
	☐ Potential nonstructural hazards with significant threat to occupant life safety → Detailed Nonstructural							
	☐ Nonstructural hazards identified with significant threat to occupant life safety → But no Detailed No			tion required				
	□ Low or no nonstructural hazard threat to occupant life safety → No Detailed Nonstructural Evaluat	ion requir	ed					

Comments:			

FEMA P-154 Data Collection Form

Level 1 **MODERATE Seismicity**

Address: Zip:								
Other Identifiers:								
Building Name:								
Use: Longitude:								
Latitude: Longitude: PHOTOGRAPH Ss: S1:								
PHOTOGRAPH Ss: S1:								
PHOTOGRAPH								
Screener(s): Date/Time:								
No. Stories: Above Grade: Below Grade: Year Built:								
Total Floor Area (sq. ft.): Code Yea	ar:	201						
Additions: None Yes, Year(s) Built:	"-							
	: Shelter							
Occupancy: Assembly Commercial Emer. Services ☐ Historic Industrial Office School ☐ Govern		ı						
Utility Warehouse Residential, # Units:								
Soil Type: A B C D E F DNK Hard Avg Dense Stiff Soft Poor If DNK,	assume Type D).						
Rock Rock Soil Soil Soil Soil	,,							
Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Sui	f. Rupt.: Yes/No	o/DNK						
Adjacency: Pounding Falling Hazards from Taller Adja	-							
Irregularities: □ Vertical (type/severity)								
Plan (type)								
Exterior Falling Unbraced Chimneys Heavy Cladding	or Heavy Vene	er						
Hazards: ☐ Parapets ☐ Appendages								
☐ Other:								
COMMENTS:								
SKETCH Additional sketches or comments on separate page								
BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}								
	//2 URM	МН						
Basic Score 5.1 4.5 3.8 2.7 2.6 3.5 2.5 2.7 2.1 2.5 2.0 2.1 1.9 2.1 2	1 1.7	2.9						
Severe Vertical Irregularity, V_{L1}		NA						
	.7 -0.6	NA						
	.8 -0.7	NA						
	.2 -0.1	-0.5						
Post-Benchmark 1.4 2.0 2.5 1.5 1.5 0.8 2.1 NA 2.0 2.3 NA 2.1 2.5 2.3 2		1.2						
Soil Type A or B 0.7 1.2 1.8 1.1 1.4 0.6 1.5 1.6 1.1 1.5 1.3 1.6 1.3 1.4 1.1 Soil Type E (1-3 stories) -1.2 -1.3 -1.4 -0.9 -0.9 -1.0 -0.9 -0.9 -0.7 -1.0 -0.7 -0.8 -0.7 -0.8 -0.7	4 1.3 .8 -0.6	1.6 -0.9						
	.8 -0.6	NA						
71 ()	3 0.2	1.5						
FINAL LEVEL 1 SCORE, S _{L1} ≥ S _{MIN} :								
EXTENT OF REVIEW OTHER HAZARDS ACTION REQUIRED								
Exterior: Partial All Sides Aerial Are There Hazards That Trigger A Detailed Structural Evaluation Required?								
Interior: None Visible Entered Detailed Structural Evaluation?	α							
Drawings Reviewed: \square Yes \square No \square Pounding potential (unless $S_{L2} > \square$ Yes, score less than cut-off	J							
Soil Type Source: cut-off, if known) Yes, other hazards present								
out oil, il kilowil)								
Geologic Hazards Source: Falling hazards from taller adjacent	. / . !							
Geologic Hazards Source: Contact Person: Geologic hazards from taller adjacent building Geologic hazards or Soil Type F Geologic hazards or Soil Type F	,							
Geologic Hazards Source: Contact Person: Falling hazards from taller adjacent building Detailed Nonstructural Evaluation Recommended? Geologic hazards or Soil Type F Significant damage/deterioration to Significant damage/deterioration to Significant damage/deterioration to Yes, nonstructural hazards identified that should be Significant damage/deterioration to Significant damage/deteriorat	e evaluated							
Geologic Hazards Source: Contact Person: LEVEL 2 SCREENING PERFORMED? Significant damage/deterioration to the structural system Tos, other hazards prosent No Detailed Nonstructural Evaluation Recommended? Yes, nonstructural hazards identified that should be the structural system	e evaluated	a						
Geologic Hazards Source: Contact Person: LEVEL 2 SCREENING PERFORMED? Geologic hazards from taller adjacent building Geologic hazards or Soil Type F Significant damage/deterioration to Significant damage/deterioration to Detailed Nonstructural Evaluation Recommended? Yes, nonstructural hazards identified that should the structural parameters are significant to the structural parameters.	e evaluated nitigation, but a	a						
Geologic Hazards Source: Contact Person: LEVEL 2 SCREENING PERFORMED? Yes, Final Level 2 Score, S _{L2} No Statist, Notwin Statistics in Notwin Statistic	e evaluated nitigation, but a	1						

Level 2 (Optional)

Bldg Name:	Final Level 1 Score:	S_{L1} =	(do not consider S_{MIN})
Screener:	Level 1 Irregularity Modifiers:	Vertical Irregularity, V_{L1} =	Plan Irregularity, P_{L1} =
Date/Time:	ADJUSTED BASELINE SCORE:	$S' = (S_{11} - V_{11} - P_{11}) =$	

STRUCTURA	L MODIFIER	RS TO ADD TO ADJUSTED BASELINE SCORE		
Topic		If statement is true, circle the "Yes" modifier; otherwise cross out the modifier.)	Yes	Subtotals
Vertical	Sloping	W1 building: There is at least a full story grade change from one side of the building to the other.	-1.4	
Irregularity, V _{L2}	Site	Non-W1 building: There is at least a full story grade change from one side of the building to the other.	-0.4	
	Weak	W1 building cripple wall: An unbraced cripple wall is visible in the crawl space.	-0.7	1
	and/or	W1 house over garage: Underneath an occupied story, there is a garage opening without a steel moment frame,		1
	Soft Story	and there is less than 8' of wall on the same line (for multiple occupied floors above, use 16' of wall minimum).	-1.4	
	(circle one	W1A building open front: There are openings at the ground story (such as for parking) over at least 50% of the		
	maximum)	-1.4		
		Non-W1 building: Length of lateral system at any story is less than 50% of that at story above or height of any		
		story is more than 2.0 times the height of the story above.	-1.1	
		Non-W1 building: Length of lateral system at any story is between 50% and 75% of that at story above or height		
		of any story is between 1.3 and 2.0 times the height of the story above.	-0.6	
	Setback	Vertical elements of the lateral system at an upper story are outboard of those at the story below causing the		
		diaphragm to cantilever at the offset.	-1.2	
		Vertical elements of the lateral system at upper stories are inboard of those at lower stories.	-0.6	
		There is an in-plane offset of the lateral elements that is greater than the length of the elements.	-0.4	
	Short	C1,C2,C3,PC1,PC2,RM1,RM2: At least 20% of columns (or piers) along a column line in the lateral system have		
	Column/	height/depth ratios less than 50% of the nominal height/depth ratio at that level.	-0.5	<u> </u>
	Pier	C1,C2,C3,PC1,PC2,RM1,RM2: The column depth (or pier width) is less than one half of the depth of the	0.5	
	0 111 1	spandrel, or there are infill walls or adjacent floors that shorten the column.	-0.5	
	Split Level	There is a split level at one of the floor levels or at the roof.	-0.6	.,
	Other	There is another observable severe vertical irregularity that obviously affects the building's seismic performance.	-1.2	V _{L2} =
DI	Irregularity	There is another observable moderate vertical irregularity that may affect the building's seismic performance.	-0.6	(Cap at -1.4)
Plan Irregularity, P _{L2}		egularity: Lateral system does not appear relatively well distributed in plan in either or both directions. (Do not W1A open front irregularity listed above.)	-1.0	
inegularity, FL2		system: There are one or more major vertical elements of the lateral system that are not orthogonal to each other.	-0.5	i
		priner: Both projections from an interior corner exceed 25% of the overall plan dimension in that direction.	-0.5	i
		pening: There is an opening in the diaphragm with a width over 50% of the total diaphragm width at that level.	-0.3	i
		ing out-of-plane offset: The exterior beams do not align with the columns in plan.	-0.4	P _{1,2} =
		arity: There is another observable plan irregularity that obviously affects the building's seismic performance.	-1.0	(Cap at -1.4)
Redundancy		has at least two bays of lateral elements on each side of the building in each direction.	+0.4	(Cup ut -1.4)
Pounding		eparated from an adjacent structure The floors do not align vertically within 2 feet. (Cap total	-1.2	•
Founding		0.25% of the height of the shorter of One building is 2 or more stories taller than the other.	-1.2	•
		and adjacent structure and: The building is at the end of the block. modifiers at -1.4)	-0.6	ł
S2 Building		peometry is visible.	-1.2	i
C1 Building		rves as the beam in the moment frame.	-0.5	ł
PC1/RM1 Bldg		of-to-wall ties that are visible or known from drawings that do not rely on cross-grain bending. (Do not combine with	+0.4	ł
FC1/RWT blug		nark or retrofit modifier.)	+0.4	
PC1/RM1 Bldg		has closely spaced, full height interior walls (rather than an interior space with few walls such as in a warehouse).	+0.4	
URM	Gable walls		-0.5	
MH	There is a su	upplemental seismic bracing system provided between the carriage and the ground.	+1.2	
Retrofit	Comprehens	sive seismic retrofit is visible or known from drawings.	+1.4	M=
FINAL LEVEL	2 SCORE,	$S_{L2} = (S' + V_{L2} + P_{L2} + M) \ge S_{MIN}$:	(Transfe	er to Level 1 form)
There is observal	ole damage or	deterioration or another condition that negatively affects the building's seismic performance: Yes No		
If yes, describe th	e condition in	the comment box below and indicate on the Level 1 form that detailed evaluation is required independent of the build	ling's sco	е.
0000000000	E NOVOET	HOTHDAL HAZARRO		
1		UCTURAL HAZARDS		
Location	Statement (Check "Yes" or "No") Yes No	Co	mment

OBSERVABL	E NONSTRUCTURAL HAZARDS			
Location	Statement (Check "Yes" or "No")	Yes	No	Comment
Exterior	There is an unbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney.			
	There is heavy cladding or heavy veneer.			
	There is a heavy canopy over exit doors or pedestrian walkways that appears inadequately supported.			
	There is an unreinforced masonry appendage over exit doors or pedestrian walkways.			
	There is a sign posted on the building that indicates hazardous materials are present.			
	There is a taller adjacent building with an unanchored URM wall or unbraced URM parapet or chimney.			
	Other observed exterior nonstructural falling hazard:			
Interior	There are hollow clay tile or brick partitions at any stair or exit corridor.			
	Other observed interior nonstructural falling hazard:			
Estimated Nonst	tructural Seismic Performance (Check appropriate box and transfer to Level 1 form conclusions)			
	□ Potential nonstructural hazards with significant threat to occupant life safety → Detailed Nonstructural			
	☐ Nonstructural hazards identified with significant threat to occupant life safety → But no Detailed No			tion required
	□ Low or no nonstructural hazard threat to occupant life safety → No Detailed Nonstructural Evaluation	on require	ed	

Comments:			

FEMA P-154 Data Collection Form

Level 1 **LOW Seismicity**

						Add	dress:							_			_
													Z	ip:			
						Oth	er Identif	iers:									
						Buil	lding Nar	ne:									
						Use): 										
						Lati	itude:					Longitu	ıde:				
						Ss:											
PHOT	OGRAPI	-				Scr	eener(s):					D	ate/Time	e:			
						No.	Stories:	Ahov	e Grade	Y:	Belov	v Grade	j.	Yea	r Built:	[☐ EST
						Tota	al Floor A	rea (so	. ft.): 	7 ٧ ٧	'/-\ D	!14.		Code	Year:		
							litions:								-42 -	П 01-14	L
						Occ	cupancy:	Indu	embly strial	Comme	ciai	School	Services		storic overnmer	_	er
								Utilit		Wareho	use		ntial, #Ur				
						Soil	l Type:	□А	ПВ				JE [
						-	71	Hard	Avg	Dens	se St	tiff S	Soft P	oor <i>If</i>	DNK, assi	ите Туре	D.
						4_		Rock	Rock					oil			
							ologic Ha	zards:									
							acency:			ounding		•	lazards fr		•	•	
						Irre	gularities	:	☐ V	ertical (typ	oe/sever	ity)					
										an (type)				01 1			
							erior Falli ards:	ing		nbraced (arapets				avy Clado endages		eavy Ven	neer
						11102	arus.			ther:			☐ /	enuages	•		
						СО	MMENTS	3:									
SK	ETCH					I_{\sqcap}	Additiona	l skatche	e or cor	nmente o	n senar	ate nane					
		ASIC:	SCO	RE, MO	DIFIFE								<u> </u>				
FEMA BUILDING TYPE Do Not	W1	W1A	W2		S2	S3	S4	S5	C1	C2	C3	PC1	PC2	RM1	RM2	URM	МН
Know			***	(MRF)	(BR)	(LM)	(RC SW)	(URM INF)	(MRF)	(SW)	(URM INF)	(TU)	. 02	(FD)	(RD)	O T CIT	
Basic Score	6.2	5.9	5.7	3.8	3.9	4.4	4.1	4.5	3.3	4.2	3.5	3.8	3.3	3.7	3.7	3.2	4.6
Severe Vertical Irregularity, V _{L1}	-1.5	-1.5	-1.5		-1.3	-1.6	-1.2	-1.3	-1.3	-1.2	-1.1	-1.3	-1.1	-1.1	-1.1	-1.2	NA
Moderate Vertical Irregularity, V _{L1} Plan Irregularity, P _{L1}	-1.0 -1.6	-0.9 -1.4	-0.9 -1.3		-0.8 -1.1	-1.0 -1.4	-0.7 -1.0	-0.7 -1.1	-0.7 -1.0	-0.7 -1.0	-0.6 -0.9	-0.8 -1.2	-0.6 -0.9	-0.6 -0.9	-0.6 -0.9	-0.7 -1.0	NA NA
Pre-Code	-1.6 NA	-1.4 NA	-1.3 NA	-1.2 NA	-1.1 NA	-1.4 NA	-1.0 NA	-1.1 NA	-1.0 NA	-1.0 NA	-0.9 NA	-1.2 NA	-0.9 NA	-0.9 NA	-0.9 NA	-1.0 NA	NA NA
Post-Benchmark	2.2	2.4	2.5	2.0	1.6	1.4	2.1	NA	2.3	2.2	NA	1.9	2.6	2.3	2.3	NA	1.8
Soil Type A or B	0.9	1.1	1.3	1.0	1.2	0.8	1.3	1.4	0.9	1.2	1.2	1.3	1.3	1.4	1.4	1.3	0.9
Soil Type E (1-3 stories) Soil Type E (> 3 stories)	-1.2 -1.7	-1.7 -2.0	-2.3 -2.2		-1.4 -1.4	-1.0 NA	-1.7 -1.7	-2.0 -1.9	-1.4 -1.3	-2.0 -1.9	-1.6 -1.6	-1.7 NA	-1.6 -1.6	-1.7 -1.6	-1.7 -1.7	-1.5 -1.4	-2.1 NA
Minimum Score, S _{MIN}	2.7	2.1	1.5	0.9	0.8	1.2	0.8	0.9	0.5	0.6	0.5	0.6	0.4	0.6	0.5	0.4	2.5
FINAL LEVEL 1 SCORE, S _{L1} ≥ S _{MIN}	g.			-					•		•						
EXTENT OF REVIEW				OTHE	R HAZ	ARDS	;		ACT	ION R	EQUIF	RED					
	All Sides	☐ Aeri	ial				Trigger A			ed Struc	-		Require	d?			
Interior: None	Visible	☐ Ente		Detailed	Structura	al Evalu	uation?			es, unkno			•		uilding		
Drawings Reviewed: ☐ Yes ☐ Soil Type Source:	INO						nless S _{L2} >	•		es, score					-		
Geologic Hazards Source:					off, if know ng hazard		aller adjac	ent	☐ Ye	es, other	ııd∠d[Q\$	present					
Contact Person:				build	ing		•			ed Nonst	ructura	l Evalua	tion Rec	ommen	ded? (ch	eck one)	
LEVEL 2 SCREENING PERF	ORMFI	D?					Soil Type Feterioration			es, nonsti					,	,	
Yes, Final Level 2 Score, S _{L2}		D: □N	,		tructural s		, with a livi	· 10	☐ No	o, nonstru	ictural h	azards e	exist that				ta
Nonstructural hazards?		□ N								tailed eva			,	ed Γ	DNK		
_										,				_			
Where information	cannot h	e verifia	d err	eener cha	ll note th	a tollow	vina. Ec	T = Feti	matod ^	r IInrolia	hie data	OR	DNK = D	n Nat Ki	าดพ		

Level 2 (Optional)

Bldg Name:	Final Level 1 Score:	S _{L1} =	(do not consider S _{MIN})
Screener:	Level 1 Irregularity Modifiers:	Vertical Irregularity, V _{L1} =	Plan Irregularity, P_{L1} =
Date/Time:	ADJUSTED BASELINE SCORE:	$S' = (S_{L1} - V_{L1} - P_{L1}) =$	

STRUCTURA	MODIFIFE	S TO ADD TO ADJUSTED BASELINE SC	ORF				
Topic		f statement is true, circle the "Yes" modifier; otherwise				Yes	Subtotals
Vertical	Sloping	W1 building: There is at least a full story grade char		ther.		-1.5	
Irregularity, V_{L2}	Site	Non-W1 building: There is at least a full story grade				-0.4	
3, 1, 3,	Weak	W1 building cripple wall: An unbraced cripple wall is				-0.7	
	and/or	W1 house over garage: Underneath an occupied sto		steel mome	ent frame.	-	
	Soft Story	and there is less than 8' of wall on the same line (for				-1.5	
	(circle one	W1A building open front: There are openings at the					
	maximum)	length of the building.				-1.5	
		Non-W1 building: Length of lateral system at any st	ory is less than 50% of that at story abo	ve or heigh	t of any		
		story is more than 2.0 times the height of the story a	bove.			-1.3	
		Non-W1 building: Length of lateral system at any st		story above	or height		
		of any story is between 1.3 and 2.0 times the height				-0.6	
	Setback	Vertical elements of the lateral system at an upper s	story are outboard of those at the story b	elow causir	ng the		
		diaphragm to cantilever at the offset.				-1.3	
		Vertical elements of the lateral system at upper stor				-0.6	
	01 1	There is an in-plane offset of the lateral elements the				-0.4	
	Short	C1,C2,C3,PC1,PC2,RM1,RM2: At least 20% of colu		lateral sys	tem have	0.0	
	Column/	height/depth ratios less than 50% of the nominal height/depth ratios less than 50% of		-1		-0.6	
	Pier	C1,C2,C3,PC1,PC2,RM1,RM2: The column depth (spandrel, or there are infill walls or adjacent floors the		depth of th	е	-0.6	
	Split Level	There is a split level at one of the floor levels or at the				-0.6	1
	Other	There is a split level at one of the floor levels of at the There is another observable severe vertical irregular		oiemic norf	ormanco	-1.3	V _{L2} =
	Irregularity	There is another observable severe vertical irregular				-0.6	(Cap at -1.5)
Plan		gularity: Lateral system does not appear relatively we				-0.0	(Cup ut -1.5)
Irregularity, P _{L2}		/1A open front irregularity listed above.)	in distributed in plan in oldier or both and	oliono. (Di	71100	-1.1	
in ogulanty, 7 22		system: There are one or more major vertical element	ts of the lateral system that are not ortho	gonal to ea	ch other.	-0.6	
	Reentrant co	rner: Both projections from an interior corner exceed	25% of the overall plan dimension in the	t direction.		-0.6	
		pening: There is an opening in the diaphragm with a			level.	-0.4	
		ng out-of-plane offset: The exterior beams do not alig				-0.5	P _{L2} =
		arity: There is another observable plan irregularity tha		performan	ce.	-1.1	(Cap at -1.6)
Redundancy		nas at least two bays of lateral elements on each side				+0.4	, ,
Pounding			o not align vertically within 2 feet.	(Сар	total	-1.3	
	by less than	0.1% of the height of the shorter of One building	is 2 or more stories taller than the othe	. poun	ding	-1.3	
	the building	nd adjacent structure and: The building	is at the end of the block.	modif	iers at -1.5)	-0.6	
S2 Building		eometry is visible.				-1.3	
C1 Building		ves as the beam in the moment frame.				-0.6	
PC1/RM1 Bldg		of-to-wall ties that are visible or known from drawings	that do not rely on cross-grain bending.	(Do not cor	nbine with	+0.4	
		ark or retrofit modifier.)					
PC1/RM1 Bldg		nas closely spaced, full height interior walls (rather the	an an interior space with few walls such	as in a war	ehouse).	+0.4	
URM	Gable walls					-0.6	
MH		pplemental seismic bracing system provided between	the carriage and the ground.			+1.8	
Retrofit	'	ve seismic retrofit is visible or known from drawings.				+1.6	M =
		$S_{L2} = (S' + V_{L2} + P_{L2} + M) \ge S_{MIN}$:				(Transfe	er to Level 1 form)
		deterioration or another condition that negatively affect		☐ Yes	□ No		
It yes, describe th	ne condition in	he comment box below and indicate on the Level 1 fo	rm tnat detailed evaluation is required ii	dependent	ot the build	ıng's scor	e.
OBSERVARI	E NONSTD	JCTURAL HAZARDS					
Location		Check "Yes" or "No")	1	Yes N	0	Con	nment
_0041011	Julionichit (MOON TOO OF THO J			~	0011	

OBSERVABL	OBSERVABLE NONSTRUCTURAL HAZARDS							
Location	Statement (Check "Yes" or "No")	Yes	No	Comment				
Exterior	There is an unbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney.							
	There is heavy cladding or heavy veneer.							
	There is a heavy canopy over exit doors or pedestrian walkways that appears inadequately supported.							
	There is an unreinforced masonry appendage over exit doors or pedestrian walkways.							
	There is a sign posted on the building that indicates hazardous materials are present.							
	There is a taller adjacent building with an unanchored URM wall or unbraced URM parapet or chimney.							
	Other observed exterior nonstructural falling hazard:							
Interior	There are hollow clay tile or brick partitions at any stair or exit corridor.							
	Other observed interior nonstructural falling hazard:							
Estimated Nonst	tructural Seismic Performance (Check appropriate box and transfer to Level 1 form conclusions)							
	☐ Potential nonstructural hazards with significant threat to occupant life safety → Detailed Nonstructural							
	☐ Nonstructural hazards identified with significant threat to occupant life safety → But no Detailed No	nstructur	al Evalu	ation required				
	□ Low or no nonstructural hazard threat to occupant life safety →No Detailed Nonstructural Evaluation	on require	ed					

Comments:			

B.2 Quick Reference Guide

Table B-1 FEMA Building Types and Code Adoption and Enforcement Dates

	FEMA Building Type	Year Seismic Codes Initially Adopted and Enforced	Benchmark Year when Codes Improved		
W1	Light wood frame single- or multiple-family dwellings				
W1A	Light wood frame multi-unit, multi-story residential buildings with plan areas on each floor of greater than 3,000 square feet				
W2	Wood frame commercial and industrial buildings > 5,000 sqft				
S1	Steel moment-resisting frame				
S2	Braced steel frame				
S3	Light metal frame				
S4	Steel frame with cast-in-place concrete shear walls				
S5	Steel frame with unreinforced masonry infill walls				
C1	Concrete moment-resisting frame				
C2	Concrete shear wall				
C3	Concrete frame with unreinforced masonry infill walls				
PC1	Tilt-up construction				
PC2	Precast concrete frame				
RM1	Reinforced masonry with flexible floor and roof diaphragms				
RM2	Reinforced masonry with rigid floor and roof diaphragms				
URM	Unreinforced masonry bearing-wall buildings				
мН	Manufactured housing				
	Anchorage of Heavy Cladding Year in which seismic anchorage requirements were adopted:				

Notes:

These tables shall be filled out by the Supervising Engineer. See Section 2.6.3 of the *Handbook* for additional information. If seismic codes have never been adopted and enforced in the jurisdiction, apply the Pre-Code Score Modifier regardless of the building's date of construction.

Pre-Code:

Building designed and constructed prior to the year in which seismic codes were initially adopted and enforced in the jurisdiction; pre-code years are not applicable in regions of Low seismicity.

Post-Benchmark:

Building designed and constructed after significant improvements in seismic code requirements (e.g., ductile detailing) were adopted and enforced; the benchmark year when codes improved may be different for each building type and jurisdiction.

Heavy Cladding:

Heavy cladding on buildings designed and constructed prior to the year noted is considered an exterior falling hazard and should be noted as such on the Level 1 form.

B.3 Level 1 Building Addition Reference Guide

Table B-2 Level 1 Reference Guide for Reviewing Buildings with Horizontal Additions

Building Addition Screening Criteria	Response	Screening Guidance
Criterion 1: Does the building have visible and aligned joints over the entire height of two exterior walls and across the roof?	Yes	Determine scores for each separate building defined by the joints and consider the potential for pounding using the adjacency guidelines in Section 3.9.
	No	See Criterion 2
Criterion 2: Does the building have any of the following characteristics: a) abrupt and noticeable differences in architectural style that occur on two sides of the building over the entire height of the exterior walls?	Yes	Screen as separate buildings defined by the differences noted in Criterion 2. Determine score for each portion and record the lower score.
b) visible differences in structural framing between distinct portions of the building?	No	Screen as a single building.
c) differences in floor elevation between portions of the building?		

B.4 Level 1 Pounding Reference Guide

Table B-3 Level 1 Pounding Reference Guide

Consider pounding when the separation between adjacent buildings is less than: 2" times number of stories in shorter building (in Very High seismicity region) 1 1/2" times number of stories in shorter building (in High seismicity region) 1" times number of stories in shorter building (in Moderately High seismicity region) 1/2" times number of stories in shorter building (in Moderate and Low seismicity regions) Separation Gap Examples: a) Two 2-story buildings next to each other in High seismicity region: Minimum Separation = $1 \frac{1}{2}$ " x 2 = 3" b) 6-story building next to a 4-story building in Moderate seismicity region: Minimum Separation = $1/2'' \times 4 = 2''$ AND one or more of the following conditions apply: 1. Floors of adjacent building do not align vertically within two feet: 2. One building is 2 or more stories taller than the other: 3. Building is at the end of the block: **End Building End Building**

B.5 Vertical Irregularity Reference Guide

Table B-4 Vertical Irregularity Reference Guide

	Vertical Irregularity	Severity	Level 1 Instructions
Sloping Site	(a) (b)	Varies	Apply if there is more than a one-story slope from one side of the building to the other. Evaluate as Severe for W1 buildings as shown in Figure (a); evaluate as Moderate for all other building types as shown in Figure (b).
Unbraced Cripple Wall		Moderate	Apply if unbraced cripple walls are observed in the crawlspace of the building. This applies to W1 buildings. If the basement is occupied, consider this condition as a soft story.
Weak and/or Soft Story		Severe	Apply: Figure (a): For a W1 house with occupied space over a garage with limited or short wall lengths on both sides of the garage opening. Figure (b): For a W1A building with an open front at the ground story (such as for parking). Figure (c): When one of the stories has less wall or fewer columns than the others (usually the bottom story). Figure (d): When one of the stories is taller than the others (usually the bottom story).
Out-of-Plane Setback		Severe	Apply if the walls of the building do not stack vertically in plan. This irregularity is most severe when the vertical elements of the lateral system at the upper levels are outboard of those at the lower levels as shown in Figure (a). The condition in Figure (b) also triggers this irregularity. If nonstacking walls are known to be nonstructural, this irregularity does not apply. Apply the setback if greater than or equal to 2 feet.

 Table B-4
 Vertical Irregularity Reference Guide (continued)

	Vertical Irregularity	Severity	Level 1 Instructions
In-plane Setback	(a) (b)	Moderate	Apply if there is an in-plane offset of the lateral system. Usually, this is observable in braced frame (Figure (a)) and shear wall buildings (Figure (b)).
Short Column/Pier		Severe	Apply if: Figure (a): Some columns/piers are much shorter than the typical columns/piers in the same line. Figure (b): The columns/piers are narrow compared to the depth of the beams. Figure (c): There are infill walls that shorten the clear height of the column. Note this deficiency is typically seen in older concrete and steel building types.
Split Levels		Moderate	Apply if the floors of the building do not align or if there is a step in the roof level.

B.6 Plan Irregularity Reference Guide

 Table B-5
 Plan Irregularity Reference Guide

	Plan Irregularity	Level 1 Instructions
Torsion	Solid Wall (a) Solid Wall Solid Wall Solid Wall	Apply if there is good lateral resistance in one direction, but not the other, or if there is eccentric stiffness in plan (as shown in Figures (a) and (b); solid walls on two or three sides with walls with lots of openings on the remaining sides).
Non-Parallel Systems		Apply if the sides of the building do not form 90-degree angles.
Reentrant Corner		Apply if there is a reentrant corner, i.e., the building is L, U, T, or + shaped, with projections of more than 20 feet. Where possible, check to see if there are seismic separations where the wings meet. If so, evaluate for pounding.
Diaphragm Openings		Apply if there is a opening that has a width of over 50% of the width of the diaphragm at any level.
Beams do not align with columns		Apply if the exterior beams do not align with the columns in plan. Typically, this applies to concrete buildings, where the perimeter columns are outboard of the perimeter beams.

B.7 Level 2 Building Addition Reference Guide

Table B-6 Level 2 Building Addition Reference Guide

Table b-6	able B-6 Level 2 Building Addition Reference Guide						
Addition Orientation	Type of Addition	Example	RVS Screening Recommendation	Notes and Additional Instructions			
Vertical	Single story addition has a smaller footprint than the original building		Evaluate as a single building using the total number of stories of the original building and addition and indicate a setback vertical irregularity.	Vertical setback irregularity applies if the area of the addition is less than 90 percent of the area of the story below or if two or more walls of the addition are not aligned with the walls below.			
Vertical	Single or multiple story addition with similar footprint and seismic force-resisting system as the original building		Evaluate as a single building using the total number of stories of the building plus the addition.	If the vertical elements of the seismic force-resisting system of the addition do not align with the vertical elements of the seismic force-resisting system below, apply the setback vertical irregularity.			
Vertical	Single or multiple story addition in which the addition has a different seismic force-resisting system		Evaluate as a single building with another observable moderate vertical irregularity.	If the footprint of the addition is less than 90 percent of the story below or if two or more walls of the addition are not aligned with the walls below, a setback vertical irregularity should also be indicated.			
Horizontal	Addition with same construction type and number of stories as original and horizontal dimension of the narrower building at the interface is less than or equal to 50% of the length of the wider building		Evaluate as a single building with a torsional irregularity plan irregularity.	If the difference in horizontal dimension is between 50% and 75%, indicate a reentrant corner irregularity. If the floor heights are not aligned within 2 feet, presence of pounding is indicated.			
Horizontal	Addition with a different height than the original building		Evaluate as a single building using the height of the taller building and indicate a Pounding Score Modifier if the heights of the buildings differ by more than 2 stories or if the floors do not align with 2 feet.	If the horizontal dimension of the narrower of the two buildings along the interface is less than 75% of the dimension of the wider, the reentrant corner plan irregularity should be indicated.			

The above horizontal addition scenarios assume that there is not an obvious separation gap between the addition and the original building.

 Table B-6
 Level 2 Building Addition Reference Guide (continued)

Addition Orientation	Type of Addition	Example	RVS Screening Recommendation	Notes and Additional Instructions
Horizontal	Addition with different building type than original		Evaluate a single building with torsional irregularity using the building type with the lower basic score.	If the floors do not align within 2 feet or the number of stories differs by more than 2 stories, also indicate the appropriate Pounding Score Modifier.
Horizontal	Small addition where the addition relies on the original building for gravity support		Evaluate as a single building. Evaluate for the presence of a setback irregularity if there is a difference in the number of stories and plan irregularity if there is a difference in horizontal dimension of the original building and addition along the interface.	If the construction type of the addition is different than the original building, evaluate as two buildings with the addition as having an observable severe vertical irregularity.

The above horizontal addition scenarios assume that there is not an obvious separation gap between the addition and the original building.