Campus: UCLA Building Name: NC Elec Dist CAAN ID: 4257 Auxiliary Building ID:



Date: Apr 13, 2021

## FORM 1 CERTIFICATE OF SEISMIC PERFORMANCE LEVEL

OF

UNIVERSITY

CALIFORNIA

UC-Designed & Constructed Facility

Campus-Acquired or Leased Facility

#### BUILDING DATA Building Name: NC Elec Dist Address: 290 Royce Dr. Los Angeles, CA 90095 Site location coordinates: Latitude 34.0734907 Longitudinal -118.4425835

#### UCOP SEISMIC PERFORMANCE LEVEL (OR "RATING"): IV

ASCE 41-17 Model Building Type:

- a. Longitudinal Direction: C2- Concrete Shear Walls (with stiff diaphragms)
- b. Transverse Direction: C2- Concrete Shear Walls (with stiff diaphragms)

Gross Square Footage: 2,900 Number of stories *above* grade: 1 Number of basement stories *below* grade: 0

Year Original Building was Constructed: 1993 Original Building Design Code & Year: UBC-1988 Retrofit Building Design Code & Code (if applicable): N/A

#### SITE INFORMATION

Site Class: D	Basis:	Inferred
Geologic Hazards:		
Fault Rupture: No	Basis:	CGS Earthquake Hazards Zone Application
Liquefaction: Yes	Basis:	CGS Earthquake Hazards Zone Application
Landslide: No	Basis:	CGS Earthquake Hazards Zone Application

#### ATTACHMENT

Original Structural Drawings: (N/A, N/A, N/A, N/A) or Seismic Evaluation: (NC Elec Dist Seismic Evaluation, KPFF, 4/13/2021, FEMA 154 Rapid Visual Screening) Retrofit Structural Drawings: (N/A, N/A, N/A, N/A) Campus: UCLA Building Name: NC Elec Dist CAAN ID: 4257 Auxiliary Building ID:



#### **CERTIFICATION & PRESUMPTIVE RATING VERIFICATION STATEMENT**

I, Mark Hershberg, a California-licensed structural engineer, am responsible for the completion of this certificate, and I have no ownership interest in the property identified above. My scope of review to support the completion of this certificate included both of the following ("No" responses must include an explanation):

OF

UNIVERSITY

CALIFORNIA

- a) the review of structural drawings indicating that they are as-built or record drawings, or that they otherwise are the basis for the construction of the building: □ Yes ☑ No
- b) visiting the building to verify the observable existing conditions are reasonably consistent with those shown on the structural drawings: ☑ Yes □ No

No as-built drawings were available, so evaluation performed using FEMA 154 Level 2 Rapid Visual Screening protocol on visual observations only.

Based on my review, I have verified that the UCOP Seismic Performance Level (SPL) is presumptively permitted by the following UC Seismic Program Guidebook provision (choose one of the following):

□ 1) Contract documents indicate that the original design and construction of the aforementioned building is in accordance with the benchmark design code year (or later) building code seismic design provisions for UBC or IBC listed in Table 1 below.

☑ 2) The existing SPL rating is based on an acceptable basis of seismic evaluation completed in 2006 or later.

□ 3) Contract documents indicate that a comprehensive<sup>1</sup> building seismic retrofit design was fullyconstructed with an engineered design based on the 1997 UBC/1998 *or later* CBC, and (choose one of the following):

□ the retrofit project was completed by the UC campus. Further, the design was based on ground motion parameters, at a minimum, corresponding to BSE-1E (or BSE-R) and BSE-2E (or BSE-C) as defined in ASCE 41, or the full design basis ground motion required in the 1997 UBC/1998 CBC *or later* for EXISTING buildings, and is presumptively assigned an SPL rating of IV.

□ the retrofit project was completed by the UC campus. Further, the design was based on ground motion parameters, at a minimum, corresponding to BSE-1 (or BSE-1N) and BSE-2 (or BSE-2N) as defined in ASCE 41, or the full design basis ground motion required in the 1997 UBC/1998 *or later* CBC for NEW buildings, and is presumptively assigned an SPL rating of III.

□ the retrofit project was not completed by the UC campus following UC policies, and is presumptively assigned an SPL rating of IV.

<sup>&</sup>lt;sup>1</sup> A comprehensive retrofit addresses the entire building structural system as indicated by the associated seismic evaluation, as opposed to addressing selective portions of the structural system.

Campus: UCLA Building Name: NC Elec Dist CAAN ID: 4257 Auxiliary Building ID:



#### **CERTIFICATION SIGNATURE**

Mark Hershberg

Print Name

Principal Title

S5078 CA Professional Registration No. Signature

6/30/2021 License Expiration Date

4/13/2021

Date

PROFESSIO HERS

AFFIX SEAL HERE



KPFF Inc., (213) 418-0201, 700 S. Flower St., Suite 2100, Los Angeles, CA 90017

Firm Name, Phone Number, and Address



## UNIVERSITY OF CALIFORNIA

#### Table 1: Benchmark Building Codes and Standards

	Building Seismic Design Provisions				
Building Type <sup>a,b</sup>	UBC	IBC			
Wood frame, wood shear panels (Types W1 and W2)	1976	2000			
Wood frame, wood shear panels (Type W1a)	1976	2000			
Steel moment-resisting frame (Types S1 and S1a)	1997	2000			
Steel concentrically braced frame (Types S2 and S2a)	1997	2000			
Steel eccentrically braced frame (Types S2 and S2a)	1988 <sup>g</sup>	2000			
Buckling-restrained braced frame (Types S2 and S2a)	f	2006			
Metal building frames (Type S3)	f	2000			
Steel frame with concrete shear walls (Type S4)	1994	2000			
Steel frame with URM infill (Types S5 and S5a)	f	2000			
Steel plate shear wall (Type S6)	f	2006			
Cold-formed steel light-frame construction—shear wall system (Type CFS1)	1997 <sup>h</sup>	2000			
Cold-formed steel light-frame construction—strap-braced wall system (Type CFS2)	f	2003			
Reinforced concrete moment-resisting frame (Type C1) <sup>/</sup>	1994	2000			
Reinforced concrete shear walls (Types C2 and C2a)	1994	2000			
Concrete frame with URM infill (Types C3 and C3a)	f	f			
Tilt-up concrete (Types PC1 and PC1a)	1997	2000			
Precast concrete frame (Types PC2 and PC2a)	f	2000			
Reinforced masonry (Type RM1)	1997	2000			
Reinforced masonry (Type RM2)	1994	2000			
Unreinforced masonry (Type URM)	f	f			
Unreinforced masonry (Type URMa)	f	f			
Seismic isolation or passive dissipation	1991	2000			

Note: This table has been adapted from ASCE 41-17 Table 3-2. Benchmark Building Codes and Standards for Life Safety Structural Performed at BSE-1E. Note: UBC = Uniform Building Code. IBC = International Building Code.

<sup>a</sup> Building type refers to one of the common building types defined in Table 3-1 of ASCE 41-17.

<sup>b</sup> Buildings on hillside sites shall not be considered Benchmark Buildings.

<sup>c</sup> not used

<sup>d</sup> not used

<sup>e</sup> not used

<sup>f</sup> No benchmark year; buildings shall be evaluated in accordance with Section III.J.

<sup>g</sup> Steel eccentrically braced frames with links adjacent to columns shall comply with the 1994 UBC Emergency Provisions, published September/October 1994, or subsequent requirements.

<sup>h</sup> Cold-formed steel shear walls with wood structural panels only.

<sup>1</sup> Flat slab concrete moment frames shall not be considered Benchmark Buildings.



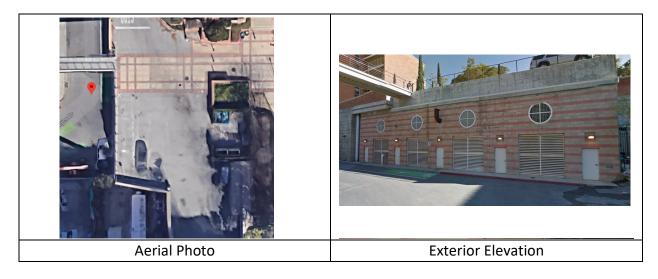
## UCLA – NC Elec Dist

DATE: 4/13/2021 FEMA 154 Rapid Visual Screening Minimum Building Report Information

#### **BUILDING DATA**



Campus: UCLA Building Name: NC Elec Dist CAAN ID: 4257 Auxiliary Building ID: Address: 290 Royce Drive Los Angeles, CA 90095 Site location coordinates: Latitude 34.0734907Longitudinal -118.4425835



ASCE 41-17 Model Building Type:

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- b. Transverse Direction: C2- Concrete Shear Walls (with stiff diaphragms)

Site-specific Ground Motion Study? No

Seismic Design Acceleration Parameters of Interest:

- a. For BSE-1E  $S_{xs}=0.898g$  and  $S_{x1}=0.517g$
- b. For BSE-2E S<sub>XS</sub>=1.55g and S<sub>X1</sub>=0.948g

Estimated Fundamental Period (seconds)

- a. Longitudinal: Unknown
- b. Transverse: Unknown

Gross Square Footage: 2,900 Number of stories *above* grade: 1 Number of basement stories below grade: 0

Year Original Building was Constructed: 1993 Original Building Design Code & Year: UBC-1988 Retrofit Building Design Code & Code (if applicable): N/A

#### SITE INFORMATION

Site Class: D	Basis:	Inferred
Geologic Hazards:		
Fault Rupture: No	Basis:	CGS Earthquake Hazards Zone Application
Liquefaction: Yes	Basis:	CGS Earthquake Hazards Zone Application
Landslide: No	Basis:	CGS Earthquake Hazards Zone Application

## UCOP SEISMIC PERFORMANCE RATING (OR "RATING"): IV

#### "BALLPARK" RETROFIT COST (if applicable)

- □ Minor (<\$50/sf)
- □ Moderate (~\$50-\$200/sf)
- □ Major (>\$200/sf)

## SUMMARY TIER 1 SEISMIC EVALUATION STRUCTURAL NON-COMPLIANCES/FINDINGS SIGNIFICANTLY AFFECTING RATING DETERMINATION

Significant Structural Deficiencies, Potentially Affecting Seismic Performance Level Designation:

- Lateral System Stress Check (wall shear, column shear or flexure, or brace axial as applicable)
- Lateral System Detailing (reinforcement ratio, confinement, aspect ratio, etc)
- Load Path
- **Adjacent Buildings**
- Weak Story
- Soft Story
- Geometry (vertical irregularities)
- Torsion
- Mass Vertical Irregularity
- **Cripple Walls**
- Wood Sills (bolting)
- **Diaphragm Continuity**
- Openings at Shear Walls (concrete or masonry)
- $\boxtimes$ Liquefaction

- Slope Failure
- Surface Fault Rupture
- Masonry or Concrete Wall Anchorage at Diaphragm
- URM wall height to thickness ratio
- **URM Parapets or Cornices**
- **URM Chimney**
- Heavy Partitions Braced by Ceilings
- Appendages

## POTENTIAL FALLING HAZARDS

- Heavy ceilings, features or ornamentation above large lecture halls, auditoriums, lobbies or other areas where large numbers of people congregate.
- Heavy masonry or stone veneer above exit ways.
- Unbraced masonry parapets, cornices or other ornamentation above exit ways.
- Unrestrained hazardous materials storage.
- Masonry chimneys.
- Unrestrained natural gas-fueled equipment such as water heaters, boilers, emergency generators, etc.
- $\square$ None of the above.

## **BRIEF DESCRIPTION OF ANTICIPATED FAILURE MECHANISM**

## COMMENTS AND RECOMMENDATIONS

The rating of this structure does not include the bridge. The bridge is supported by a structure adjacent to the one in this evaluation.

A FEMA Level 2 Rapid Visual Screening was performed in lieu of an ASCE Tier 1 evaluation due to lack of as-built documentation. No access was provided to the interior of this structure, therefore nonstructural evaluation is not conclusive.

## Appendices

A. FEMA 154 Rapid Visual Screening

# Rapid Visual Screening of Buildings for Potential Seismic Hazards

FEMA P-154 Data Collection Form

# Level 1 VERY HIGH Seismicity

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							Scr	eener(s)	:				D	ate/Time	e:			
							No.	Stories:	Abov	e Grade			w Grade	:			1993¤	
		-				-		al Floor			2,9				Code	Year:	UBC-′	1988
		a dama and					2	Additions: None Yes, Year(s) Built:										
			ALC NO.		C.		Occ	upancy		embly istrial ty	Comme Office Wareho		Emer. S School Residen	ervices itial, #Ur		storic overnmer	☐ Shelt nt	ter
	19.						Soil	Туре:	<b>□A</b> Hard	<b>□B</b> Avg	Dens	- ,-				<b>NK</b> DNK, ass	ume Type	D.
	11	A	K		cc /	4	Geo	logic Ha	Rock azards:	Rock Liquefac	Soi ction: Yes			-	Soil No/DNK	Surf. Ri	upt.: Yes	No/DNK
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FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	<b>S1</b> (MRF)	<b>S2</b> (BR)	<b>S3</b> (LM)	<b>S4</b> (RC	<b>S5</b> (URM	C1 (MRF)	C2 (SW)	C3 (URM	PC1 (TU)	PC2	<b>RM1</b> (FD)	<b>RM2</b> (RD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	SW) 1.4	INF) 1.2	1.0	1.2	INF) 0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, $V_{L1}$		-0.9	-0.9	-0.9		-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.6	NA
Moderate Vertical Irregularity, VL1		-0.6	-0.5	-0.5		-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, PL1		-0.7	-0.7	-0.6		-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code Post-Benchmark		-0.3 1.9	-0.3 1.9	-0.3 2.0		-0.2 1.1	-0.3 1.1	-0.2 1.5	-0.1 NA	-0.1 1.4	-0.2 1.7	0.0 NA	-0.2 1.5	-0.1 1.7	-0.2 1.6	-0.2 1.6	0.0 NA	0.0 0.5
Soil Type A or B		0.5	0.5	0.4		0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.0
Soil Type E (1-3 stories)		0.0	-0.2	-0.4		-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4		-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S <sub>MIN</sub>		0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.2	1.0
FINAL LEVEL 1 SCORE, S	$L_1 \geq S_{MIN}$ :	1.2	2															
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Exterior:					Are Ther				4		ed Struc			•				
Interior:				erea	Detailed Structural Evaluation?				>	<ul> <li>Yes, unknown FEMA building type or other building</li> <li>Yes, score less than cut-off</li> </ul>								
Soil Type Source: Geologic Hazards Source: C	GS Farth	anske r	azarde	Ann	cut-o	ff, if kno	wn)				es, other	hazards	present					
Contact Person:		YUUNE I	1020103	, ,hh.	Fallir L	•	as from t	aller adja	cent	Detail		tructure	l Evolue	tion Pa-	ommore	had? Ich	lock one	
					🗌 Geol	ogic haz		oil Type			ed Nonsi						,	
LEVEL 2 SCREENING								eterioratio	on to		es, nonsti o, nonstri							ta
Yes, Final Level 2 Score, $S_{L2}$ 1.4 INO					the structural system				<ul> <li>No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</li> <li>No, no nonstructural hazards identified</li> </ul>									
	Yes		N ک								,					<b>DNK</b>		
Where info								•										
	Moment-resi aced frame	isting fram			einforced co Shear wall	ncrete		URM INF : TU = Tilt u		rced mase	onry infill		= Manufa = Light me	ictured Ho etal			le diaphra diaphragn	
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#### Rapid Visual Screening of Buildings for Potential Seismic Hazards

FEMA P-154 Data Collection Form

#### Level 2 (Optional) VERY HIGH Seismicity

Optional Level 2 data collection to be performed by a civil or structural engineering professional, architect, or graduate student with background in seismic evaluation or design of buildings.

Bldg Name:	Final Level 1 Score:	$S_{L1} = 1.2$	(do not consider $S_{MIN}$ )
Screener:	Level 1 Irregularity Modifiers:	Vertical Irregularity, $V_{L1} = 0$	Plan Irregularity, $P_{L1} = 0$
Date/Time:	ADJUSTED BASELINE SCORE:	$S' = (S_{L1} - V_{L1} - P_{L1}) = 1.2$	

STRUCTURA	L 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, VL2	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 fram		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).	-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		1						
	<i>maximum</i> ) 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 of lateral system at any story is between 50% and 75% of that at story above or height of lateral system at any story is between 50% and 75% of that at story above or height of lateral system at any story is between 50% and 75% of that at story above or height of lateral system at any story is between 50% and 75% of that at story above or height of lateral system at any story is between 50% and 75% of that at story above or height of lateral system at any story is between 50% and 75% of that at story above or height of lateral system at any story is between 50% and 75% of that at story above or height of lateral system at any story is between 50% and 75% of that at story above or height of lateral system at any story is between 50% and 75% of that at story above or height of lateral system at any story is between 50% and 75% of that at story above or height of lateral system at any story above.		1						
		-0.4							
	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								
		0.7/							
	diaphragm to cantilever at the offset.	-0.7							
	Vertical elements of the lateral system at upper stories are inboard of those at lower stories.	-0.4							
	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 ha								
	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 spane								
	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.	<i>[</i> -0.4							
	Other There is another observable severe vertical irregularity that obviously affects the building's seismic performance		$V_{L2} = 0$						
	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, PL2	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 othe								
	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.	-01	0						
	C1, C2 building out-of-plane offset: The exterior beams do not align with the columns in plan.	<b>-</b> 0.2	$P_{L2} = 0$						
	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.	+0.2							
Pounding	Building is separated from an adjacent structure The floors do not align vertically within 2 feet. (Cap total	-0.7	1						
· · · · · · · · · · · · · · · · · · ·	by less than 1.5% of the height of the shorter of One building is 2 or more stories taller than the other.	-0.7	1						
	the building and adjacent structure and: The building is at the end of the block. modifiers at		1						
S2 Building	"K" bracing geometry is visible.	0.7	1						
C1 Building	Flat plate serves as the beam in the moment frame.	-0.3	1						
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 w								
	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		1						
URM	Gable walls are present.	<u>).</u> +0 <b>/</b> 2 -Ø.3	1						
MH									
Retrofit	There is a supplemental seismic bracing system provided between the carriage and the ground.		<sub>M=</sub> +0.2						
	Comprehensive seismic retrofit is visible or known from drawings.	/+1.2							
	_ 2 SCORE, $S_{L2} = (S' + V_{L2} + P_{L2} + M) ≥ S_{MIN}$ : 1.4	(Transfer	to Level 1 form)						
	ble damage or deterioration or another condition that negatively affects the building's seismic performance: 🛛 Yes 🖉 No								
If yes, describe th	he condition in the comment box below and indicate on the Level 1 form that detailed evaluation is required independent of the l	ouilding's score	1_						
	E NONSTRUCTURAL HAZARDS								
Location	Statement (Check "Yes" or "No") Yes No	Com	iment						
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:								
	Uniter observed interior norstitutular name nazaru.								

Estimated Nonstructural Seismic Performance (Check appropriate box and transfer to Level 1 form conclusions)

Potential nonstructural hazards with significant threat to occupant life safety →Detailed Nonstructural Evaluation recommended Nonstructural hazards identified with significant threat to occupant life safety →But no Detailed Nonstructural Evaluation required Low or no nonstructural hazard threat to occupant life safety →No Detailed Nonstructural Evaluation required

Comments: \* Sloping Site: grade change acknowledged, but deficiency not significant as it is apparent that building designed as a retaining structure \*\* Torsion: openings in daylighted elevation considered but deficiency not significant per eng. judgement due to soil restraint on perpendicular sides