



University of California

Seismic Safety Policy Overview & Compliance Webinars

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Presenters

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Agenda

- UC's overall seismic oversight program and the 3 elements of the methodology as adopted by the Seismic Mitigation Task Force
 - Element 1- Seismic Risk Model
 - Element 2- Seismic Advisory Board
 - Element 3- Seismic Safety Policy
- Overview of the Policy
- Factors for Prioritization for retrofit
- Details of applicability of seismic ratings to different transactions
- Provisional Use for certain leased spaces and Waivers

Methodology to manage UC's Seismic Program

- One purpose Enabling operations in furtherance of UC's mission while managing life safety
- Three key elements

Element 1

Seismic Risk Model (SRM)

The SRM, focusing on life safety, analyzes buildings rated V (Poor) or VI (Very Poor).

Element 2

Seismic Advisory Board (SAB)

SAB advises the UC system, starting from the SRM results, on reducing its seismic risk.

Element 3

Seismic Safety Policy (SSP)

Lays out factors and rules for managing seismic risk in existing buildings and for adding new buildings to UC's inventory

The Seismic Risk Model (SRM)*

Component 1 Hazard Strength of ground motion - Soil condition - Distance from the fault line

Component 2 **Damage**

Vulnerability of the building

- -Seismic rating of the building
- -Structural/construction type

Component 3

Consequence

Life Safety Index

Relative to newly designed building



SRM is a HAZUS based Model

UNIVERSITY

FEMA developed HAZUS (HAZard USa) to manage hazards including floods, hurricanes, and earthquakes CALIFORNIA .

HAZUS has capabilities to identify other consequences or loss such as down time and capital loss. SRM focused on life safety

Seismic Advisory Board (SAB)

- Provides technical advise to UC
- Reviews and advises on the output of the Seismic Risk Model
- Reviews and comments on campus prioritization plans

Structural Engineers Assigned to Campuses

- I. Ron Hamburger, Simpson Gumpertz & Heger (UCR & UCI)
- II. Joe Maffei, Maffei Structural Engineering (UCD & UCSC)
- III. Holly Razzano, Degenkolb (UCSF& UCM)
- IV. Tom Sabol, Englekirk (UCSB & UCSD)
- V. Mason Walters, Forell/Elsesser Engineering (UCB) Chair of the SAB for year 1
- VI. Nabih Youssef, Nabih Youssef Associates (UCLA)

SRM Expert

Craig Comartin, CDComartin, Inc.

OP Representative

Vini Bhargava

Geotechnical Expert

Jonathan Bray, JD Bray Consultants & UCB Faculty

OGC Representative

Norm Hamill

Policy Overview

- 1. Managing UC Owned Buildings
 - a. SRM and SAB oversight vs. Interim Use Plans
 - b. No occupancy beyond 2030 unless modified
 - c. Guidance on prioritizing retrofit based on several factors
 - d. As funds become available, include projects in the Capital Financial Plan
 - e. Incremental upgrades to continuously reduce seismic risk
 - f. Code compliance (with the California Building Code) for all retrofits
- 2. Entering into Leases
 - a. UC as lessee
 - b. Ground leases
- 3. Acquiring facilities/buildings/structures
- 4. Acquiring Businesses
- 5. Entering into licenses

Applicability of Seismic Ratings for Different Transactions

	III (Good)	IV (Fair)	V (F	Poor)	VI (Ver	y Poor)	VII (Re	ed Tag)
Existing UC Buildings	Undiminished continued use		 Provide building data to OP for the model, work with advisory board for prioritization following guidelines in policy No occupancy beyond 2030 			None in current UC building portfolio		
	Acquire/Lease and occupy?		Acquire/ Lease?	Occupy?*	Acquire/ Lease?	Occupy?	Acquire/ Lease?	Occupy?
Acquisitions	Yes		Yes	Up to 24 months	Yes	No	Yes	No**
Leases	Yes		Yes	Up to 24 months	No	No	No	No
Business Acquisitions***	Yes		Yes	Up to 24 months	Yes	No	Yes	No

^{*}Occupancy of a leased or acquired V is allowed only for surge space while an existing UC owned V or VI is being retrofitted

^{**}Appropriate for a strategic land acquisition with a seismically deficient structure/building on it; structure/building to be demolished within 3 months

^{***}A lease is assumed by the University when it acquires a business (eg. a clinical practice)

Some Factors for Prioritization after the SRM results

- Building collapse risk
- Logistics (staging & displaced occupants)
- Cost-benefit (replacement)
- Post-upgrade functionality (still fit?)
- Incremental seismic performance upgrades
- Mission criticality
- Building population and use (reduce use)
- Financial resources
- Business resumption after an event
- Special building features (historical)
- Adjacencies (risk to adjacent buildings)
- Ownership (UC's ability)

Provisional Use and Waivers

PROVISIONAL USE FOR CERTAIN LEASED FACILITIES

- Less than 3K sqft and no children
- One-story, wood-frame
- Trailer with no gas connection
- DSA or OSHPD

WAIVERS



SEISMIC SAFETY POLICY WAIVER FORM

Requestor:	Click here to enter text.	Date of Request:	Click here to enter a date
Campus/Location:	Choose location. If you select "Other," please indicate in "Property Address."	Effective Date of Policy:	Click here to enter text.
Property Address:	Click here to enter text.	Section of Policy to Be Waived:	Click here to enter text.
Waiver Requested Until:	Click here to enter text.		

Reason for Waiver:	
Click here to explain why you cannot comply with the Seismic Safety Policy.	
Attachments:	
Click here to list attachments.	
Comments:	
Click here to provide additional comments.	

Reviewed By:	Click here to enter text.	Date:	Click here to enter a date.
Last Updated By:	Click here to enter text.	Date/Time:	Click here to enter text.
Comments (OP/OGC):		100
Click here to enter text	L		

☐ Approved		☐ Denie	☐ Denied		
Waiver in Effect Untik	Click here to enter text.		1055211		
Approved By:	Click here to enter text.	Date:	Click here to enter a date.		

Signatures:				
Designated Campus Building	Office of General Counsel (OGC)	Office of the President (OP)		

Questions?

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