

Campus: Los Angeles  
Building Name: Cylinder Management  
CAAN ID: 42130  
Auxiliary Building ID:



UNIVERSITY  
OF  
CALIFORNIA

Date: 3/15/2022

### CERTIFICATE OF SEISMIC PERFORMANCE RATING

- UC-Designed & Constructed Facility  
 Campus-Acquired or Leased Facility

#### BUILDING DATA

Building Name: Cylinder Management  
Address: 650 Charles E Young South, 90095  
Site location coordinates: Latitude 34.066623 Longitudinal -118.444033

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

ASCE 41-17 Model Building Type:

- Longitudinal Direction: RM1: Reinforced masonry
- Transverse Direction: RM1: Reinforced masonry

Gross Square Footage: 1165  
Number of stories *above* grade: 1  
Number of basement stories *below* grade: 0

Year Original Building was Constructed: 2014  
Original Building Design Code & Year: CBC-2010  
Retrofit Building Design Code & Code (if applicable):

#### SITE INFORMATION

Site Class: D Basis: Geotechnologies, 7/29/2013, S1.10  
Geologic Hazards:  
Fault Rupture: No Basis: CGS Maps  
Liquefaction: No Basis: CGS Maps  
Landslide: No Basis: CGS Maps

#### ATTACHMENT

Original Structural Drawings: General Notes, Walter P. Moore and Associates, Inc., 11/5/2013, S1.10  
Seismic Evaluation: N/A  
Retrofit Structural Drawings: N/A, N/A, N/A, N/A

#### COMMENTS

Cantilevered masonry walls, open to the sky



## CERTIFICATION & PRESUMPTIVE RATING VERIFICATION STATEMENT

I, Thomas A. Sabol, 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):

- 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

Based on my review, I have verified that the UCOP Seismic Performance Rating is presumptively permitted by the following UC Seismic Program 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 the Benchmark Building Codes and Standards table below.
- 2) The existing 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 fully-constructed 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 a 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 a rating of III.
  - the retrofit project was not completed by the UC campus following UC policies, and is presumptively assigned a rating of IV.

<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.

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**CERTIFICATION SIGNATURE**

AFFIX SEAL HERE

Thomas A. Sabol  
Print Name

Principal  
Title

SE 3175  
CA Professional Registration No.

3/31/2023  
License Expiration Date

*Thomas A. Sabol*  
Signature

3/15/2022  
Date



Englekirk Institutional  
(323) 733-6673  
888 S. Figueroa Street, 18<sup>th</sup> Floor, Los Angeles, CA 90017  
Firm Name, Phone Number, and Address



**Benchmark Building Codes and Standards**

| Building Type <sup>a, b, j</sup>  | Building Seismic Design Provisions |                 |
|---|------------------------------------|-----------------|
|   | UBC                                | IBC             |
| Wood frame, wood shear panels (Types W1 and W2)                                 | 1976                               | 2000            |
| Wood frame, wood shear panels (Type W1a) <sup>j</sup>                           | 1976 <sup>j</sup>                  | 2000            |
| Steel moment-resisting frame (Types S1 and S1a) <sup>j</sup>                    | 1997 <sup>j</sup>                  | 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)                             | <sup>f</sup>                       | 2006            |
| Metal building frames (Type S3)   | <sup>f</sup>                       | 2000            |
| Steel frame with concrete shear walls (Type S4)                                 | 1994                               | 2000            |
| Steel frame with URM infill (Types S5 and S5a)                                  | <sup>f</sup>                       | 2000            |
| Steel plate shear wall (Type S6)  | <sup>f</sup>                       | 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) | <sup>f</sup>                       | 2003            |
| Reinforced concrete moment-resisting frame (Type C1) <sup>i</sup>               | 1994                               | 2000            |
| Reinforced concrete shear walls (Types C2 and C2a)                              | 1994                               | 2000            |
| Concrete frame with URM infill (Types C3 and C3a) <sup>j</sup>                  | <sup>f</sup>                       | <sup>f, j</sup> |
| Tilt-up concrete (Types PC1 and PC1a)   | 1997                               | 2000            |
| Precast concrete frame (Types PC2 and PC2a)                                     | <sup>f</sup>                       | 2000            |
| Reinforced masonry (Type RM1)   | 1997                               | 2000            |
| Reinforced masonry (Type RM2)   | 1994                               | 2000            |
| Unreinforced masonry (Type URM) <sup>j</sup>                                    | <sup>f</sup>                       | <sup>f, j</sup> |
| Unreinforced masonry (Type URMa) <sup>j</sup>                                   | <sup>f</sup>                       | <sup>f, j</sup> |
| 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

Note: IBC = International Building Code

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

b Buildings on hillside sites shall not be considered Benchmark Buildings.

c not used

d not used

e not used

f No benchmark year; buildings shall be evaluated in accordance with the UC Seismic Safety Policy and the UC Seismic Program Guidelines.

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

h Cold-formed steel shear walls with wood structural panels only.

i Flat slab concrete moment frames shall not be considered Benchmark Buildings.

j Shaded cells are intentionally modified from ASCE 41-17 Table 3-2.