

Rating form
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Text in **green** is to be part of UC Santa Cruz building database and may be part of UCOP database

UC Santa Cruz building seismic ratings

Adams House Residential Building, Cowell College

CAAN #7126

516 Cowell-Stevenson Road, Santa Cruz, CA 95064

UCSC Campus: **Main Campus**DATE: **2019-06-30**

Rating summary	Entry	Notes
UC Seismic Performance Level (rating)	V (Poor)	
Rating basis	Tier 1	ASCE 41-17 ¹
Date of rating	2019	
Recommended UC Santa Cruz priority category for retrofit	Priority B	Priority A=Retrofit ASAP Priority B=Retrofit at next permit application
Ballpark total construction cost to retrofit to IV rating ²	Medium (\$50 - \$200/sf)	See recommendations on further evaluation and retrofit.
Is 2018-2019 rating required by UCOP?	Yes	Building was not previously rated
Further evaluation recommended?	Tier 2	Focused on adequacy of out-of-plane connections particularly if investigating termite damage

¹ We translate this Tier 1 evaluation to a Seismic Performance Level rating using professional judgment. Non-compliant items in the Tier 1 evaluation do not automatically put a building into a particular rating category, but we evaluate such items along with the combination of building features and potential deficiencies, focused on the potential for collapse or serious damage to the gravity supporting structure that may threaten occupant safety. See Section III B of the UC Seismic Policy and Method B of Section 321 of the 2016 California Existing Building Code.

² Per Section 3.A.4.i of the Seismic Program Guidebook, the cost includes all construction cost necessitated by the seismic retrofit, including restoration of finishes and any triggered work on utilities or accessibility. It does not include soft costs such as design fees or campus costs. The cost is in 2019 dollars.

Brief Description of Structure

Adams House is one of seven residential buildings in Cowell College, all of which were similarly designed in 1964 and constructed at the same time in 1965. These buildings differ primarily in terms of the number of stories (ranging from 2 to 4) as well as whether they include a basement or crawlspace below the first story. Based on the similarities of these buildings, details of evaluation and findings applicable to all of these buildings are contained in the Prescott House building rating report (CAAN: 7124). This report notes only items that are different for Adams House compared to Prescott House.

The structural differences between Adams House (this report) compared to Prescott House (the referenced report) are that Adams House is the 3-story structure while Prescott House is a 4-story structure. Additionally, both of Adams House's buildings are slab-on-grade. But, for Prescott House, one building contains a partial basement and the other includes a crawlspace. Finally, the floor area of Adams House is larger than that of Prescott House. These differences are judged not to change the overall seismic rating of the building.

Additional building data	Entry	Notes
Latitude	36.997327	
Longitude	-122.054072	
Are there other structures besides this one under the same CAAN#		
Number of stories above lowest perimeter grade	3	
Number of stories (basements) below lowest perimeter grade	0	
Building occupiable area (OGSF)	13595	
Risk Category per 2016 CBC Table 1604.5		
Building structural height, h_n	31 ft	Structural height defined per ASCE 7-16 Section 11.2
Coefficient for period, C_t		
Coefficient for period, β		
Estimated fundamental period		
Site data		
975 yr hazard parameters S_s, S_1		
Site class		
Site class basis		
Site parameters F_a, F_v		
Ground motion parameters S_{cs}, S_{c1}		
S_o at building period		
Site V_{s30}		
V_{s30} basis		
Liquefaction potential		
Liquefaction assessment basis		

Landslide potential
 Landslide assessment basis
 Active fault-rupture identified at site?
 Fault rupture assessment basis
 Site-specific ground motion study?

Applicable code

Applicable code or approx. date of original construction
 Applicable code for partial retrofit
 Applicable code for full retrofit

Model building data

Model building type North-South
 Model building type East-West
 FEMA P-154 score

Previous ratings

Most recent rating	
Date of most recent rating	
2 nd most recent rating	-
Date of 2 nd most recent rating	-
3 rd most recent rating	-
Date of 3 rd most recent rating	-

Appendices

ASCE 41 Tier 1 checklist included here?

South wall

