



Rating form **MA** completed by:

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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 Turner House Residential Building, Cowell College

CAAN #7120 517 Cowell Service 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

Turner 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 Turner House compared to Prescott House.

The structural differences between Turner House (this report) compared to Prescott House (the referenced report) are that Turner House includes one 2-story building and one 3-story building, while Prescott House is composed of two 4-story buildings. These differences are judged not to change the overall seismic rating of the building.

Additional building data	Entry	Notes
Latitude	36.996602	
Longitude	-122.053852	
Are there other structures besides this one under the same CAAN#		
Number of stories above lowest perimeter grade	2,3	
Number of stories (basements) below lowest perimeter grade	1	Partial Basement. Unoccupied Crawl Space is not considered a story
Building occupiable area (OGSF)	10377	
Risk Category per 2016 CBC Table 1604.5		
Building structural height, h _n	21.5, 31 ft	Structural height defined per ASCE 7-16 Section 11.2
Coefficient for period, Ct		
Coefficient for period, eta		
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 _a 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?

Site speeme 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 side



East side

