Calif. Polytechnic State University Building 053, Science North

Original Construction 1968

Occupancy Type: B Occ. with A-3 (less than 10%), non-sprinklered

Construction Type: II-B [(E) Condition per current code]
  Primary Structural Frame Non Combustible—Concrete frame, floors, roof.
  Roof Framing Non Combustible—Concrete
  Non Combustible Exterior Bearing Walls: (E) Concrete Complies
  Interior Walls and Partitions, non combustible—metal stud walls comply.
  Fire separation distance is greater than 30’ at North and South, NO LIMIT on exterior openings per table 705.8
  East Wall- 27’ to Fisher Science; 70% openings allowed, UP, NS
    Wall area- 460 sf per floor; 70% = 322 sf allowed. 42 sf of openings- OK
  West wall- 12’ to Building 53A; 15% openings allowed, UP, NS
    Wall area- 904.5 sf per floor; 15% = 135.6 sf allowed. 133.9 sf of openings- OK

Occupancy Separations- none

NOTE: A 2 hr. fire separation wall is required between Science North and Fisher Science at the First Floor/Basement Level. The existing concrete walls comply, but the door should be replaced with a 1-1/2 hr. pair of doors and frame.

No. of Stories: 3 – OK per Table 503, 3 stories Allowed

(E) Building Height- 42’, 55’ allowed

Actual Building Area-

  First Floor: 12,105 sq. ft.
  Second Floor- 15,295 sq. ft.
  Third Floor- 14386 sq. ft.

  Total: 41,786 sq. ft. (Includes covered areas)

Allowable area per floor (Table 503)- 23,000 sq.ft.- OK

Total allowable area, building (x3, per 506.4.1.2)- 69,000 sq. ft.- OK

DSA Info-
  No DSA number.

Fire Sprinkler Info-
  First Floor at West end entrance, Service Room 116. Viking Sprinkler system.

SFM FILE #-