BUILDING DATA

Calif. Polytechnic State University Building 13, Engineering

Original Construction 1983

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

Construction Type: II-B [(E) Condition per current code]

Primary Structural Frame, non combustible – (E) steel frame and metal wall framing comply. Exterior bearing walls, non combustible – (E) steel frame and metal wall framing comply. Interior bearing walls, non combustible – (E) steel frame and metal wall framing comply. Interior Walls and Partitions (non bearing), Non combustible: (E) metal stud comply Floor Construction and secondary members, non-combustible: concrete floor slab over metal deck, steel frame Roof Construction and secondary members, non-combustible: concrete roof slab over metal deck, steel frame Non Bearing Exterior Walls (Table 602)-> 30' : No Requirement.

Fire separation distance is greater than 30', NO LIMIT on exterior openings per table 705.8

Building Separations: 2 hour Fire Wall at Grid G separates the 1 story portion from the 2 story portion, OK per table 706.4, note a.

No. of Stories: 2 – OK per Table 503, 3 stories Allowed

(E) Building Height- 38', 55' allowed

Actual Building Area-

One story portion-

First Floor- 12,932 sq. ft.

Allowable Area- 23,000 sq. ft. OK

Two Story Portion-

 First Floor 25,500 sq. ft

 Second Floor 22,550 sq. ft.

Total: 48,050 sq. ft.

Allowable Area Calculation

Aa = [At+[At x lf] + [At x ls]] (Per 506.1) If = [F/P-0.25]*W/30 (Per 506.2)(If not calculated, ls provides enough increase) Is = 2 (sprkld)

At = 23,000 sq. ft. (Per Table 503)

Aa = {23,000 + [0] + [23,000 x 2]}

Aa =23,000 + 46,000 = 69,000 sq. ft. per Floor

 First Floor 25,500 sq. ft. < 69,000 sq. ft. Allowable, **OK**

 Second Floor 22,550 sq. ft. < 69,000 sq. ft. Allowable, **OK**

Total Allowable Area- 138,000 sq. ft. (506.4.1, 2 stories) Total (E) Area – 48,050 sq. ft. **OK**

DSA Info-

No DSA number.

Fire Sprinkler Info-

Fully Sprinklered, S & M Sprinklers, 1984

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