

Building Name: ABC Annex - 2nd floor Gross Ft² 32,200

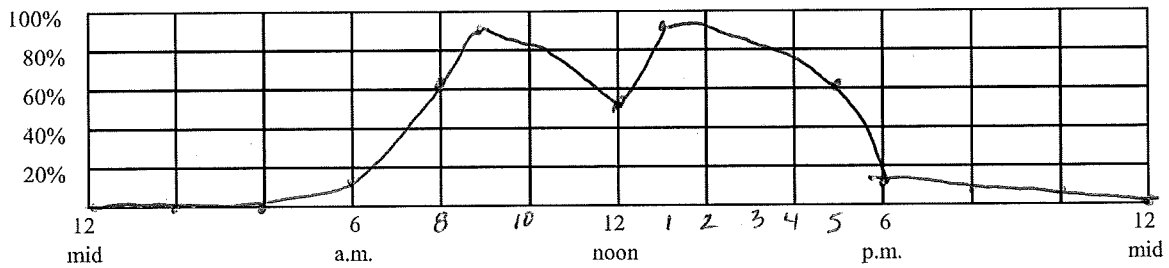
Building Occupancy Schedule

AREA/ZONE	AREA SQ. FT.	WEEKDAYS			WEEKENDS/HOLIDAYS		
		HOURS		# of People	HOURS		# of People
		From	To		From	To	
2nd floor offices	6,950	7am	7pm	20	closed		0
Cust Support (24/7)	1,370	12am	12am	2	24/7		2

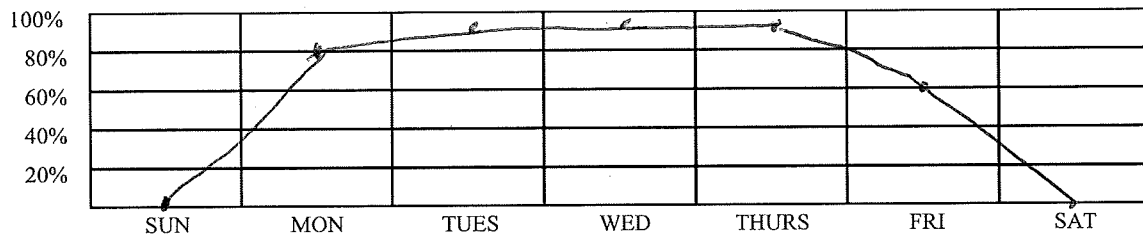
Zone: 2nd floor offices

Building Occupancy Profile

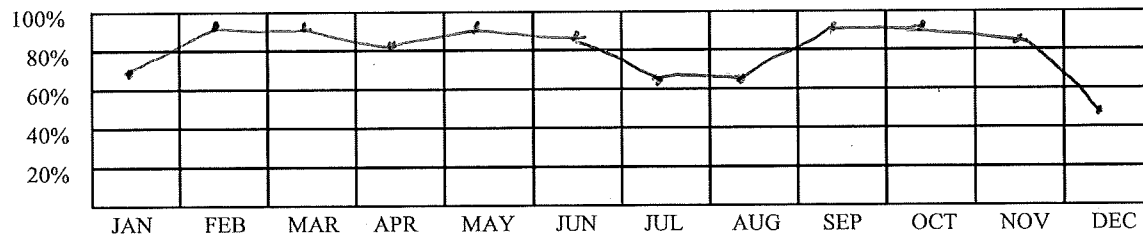
Daily Profile



Weekly Profile



Annual Profile



Occupancy Profile Analysis

Compare each profile to the operating characteristics of mechanical systems serving each area from Assignment 4 and answer the questions below. Remember, most often the easiest opportunities to reduce energy consumption occur when no one is in the building or zone.

Answer the following questions:

1. Do time clock settings match the current pattern of use?
Yes, our facilities department is careful to track occupancy and align it with optimal HVAC scheduling.
2. Is the quantity of ventilation air appropriate for the number of occupants in the zone?
yes
3. Are off-hour activities causing heating and cooling systems to operate as if the zone is fully occupied?
No. After hours, only designated AHUs are kept on for janitorial staff.
4. Can off-hour activities be rescheduled or relocated to maximize efficiency?
Already accomplished. Written into union regulations
5. What controls could be used to reduce energy consumption?
Provide occupants with the ability to adjust thermostat settings within a limited range to give them a sense of control and comfort without bringing in auxiliary heat.
6. What controls/sensors could be used to improve indoor air quality?
More or better placement of CO₂ sensors.