

- 46 4. Use of air conditioning during summer months should be reduced to conserve energy but
47 maintain indoor air quality..
- 48 5. Dry food and vaccine storage areas will be maintained within code requirements.
49 (Temperature range between 55°F - 75°F and relative humidity range between 35% - 60%).
50

51 **Heating Equipment:**

- 52
- 53 1. Occupied temperature settings for heating is not above 72°F.
- 54 2. The unoccupied temperature setting is 55°F - 60°F (i.e., setback), unless adjusted for indoor
55 air quality.
- 56 3. During the spring and fall when there is no threat of freezing, all forced air heating systems
57 should default to their respective unoccupied set-points during unoccupied times. Hot
58 water heating systems should default to their respective unoccupied set-points using the
59 appropriate loop pumps.
- 60 4. All domestic hot water systems will be set no higher than 120°F or 140°F for cafeteria and
61 kitchen service.
62

63 Cooling Season Occupied Set Points: 74°F - 78°F
64 Unoccupied Set Point: 80°F
65 Heating Season Occupied Set Points: 68°F - 72°F
66 Unoccupied Set Point: 55°F
67

68 Cooling Season Occupied Set Points: 74°F - 78°F
69 Unoccupied Set Point: 85°F
70 Heating Season Occupied Set Points: 68°F - 72°F
71 Unoccupied Set Point: 55°F
72

73

74 In accordance with ASHRAE 55 “Thermal Conditions for Human Occupancy”
75

76 **Lighting:**

- 77
- 78 1. All unnecessary lighting in unoccupied areas will be turned off. All staff should make
79 certain that lights are turned off when leaving the classroom or office when empty. Utilize
80 natural lighting and motion detector light switches where appropriate.
- 81 2. All outside lighting is off during daylight hours utilizing both time-clock and photo-sensor
82 technologies.
- 83 3. Gym lights should not be left on unless the gym is being utilized.
- 84 4. All lights, with the exception of emergency lighting, will be turned off when the space is
85 done being used for the day. Custodians will turn on lights only in the areas in which they
86 are working.
87

88 **Water:**

- 89
- 90 1. All plumbing, building envelope leaks and moisture infiltration must be reported through
91 work orders or emergency notification, if appropriate, and repaired immediately.

- 92 2. Grounds watering should only be done between 4am-10am. Ensure that the water service
93 authority rate schedule accommodates the distinction between potable/domestic use and
94 ancillary uses which do not discharge into sanitary sewer systems.
95 3. Sub-meters will be installed on irrigation and cooling tower supply lines to eliminate sewer
96 charges.

97
98 Revised: April 21, 2016

99
100
101 Cross Refs.: FA Facilities Development
102 FEA Educational Facilities Specifications
103 FECBA Energy Efficient Construction

~~2-3~~ Air conditioning start times may be adjusted by Facilities and Operations (depending on weather conditions) to ensure classroom comfort when instruction begins.

~~3.a~~ Outside air dampers will be closed during unoccupied times, as appropriate.

~~4.3~~ Relative humidity levels shall not do not exceed 60% for any 24-hour period.

~~5.4~~ Use of air conditioning during summer months should be reduced to conserve energy but maintain indoor air quality minimized and limited to areas that are being used by students and staff.

~~6.5~~ Dry food and vaccine storage areas will be maintained within code requirements. (Temperature range between 55°F - 75°F and relative humidity range between — 35% - 60%).

Heating Equipment:

1. Occupied temperature settings for heating shall is not be above 72°F.
2. The unoccupied temperature setting shall be is 55°F - 60°F (i.e., setback), unless adjusted for indoor air quality. This may be adjusted to a 60°F setting during extreme weather.
3. During the spring and fall when there is no threat of freezing, all forced air heating systems should default to their respective unoccupied set-points during unoccupied times. Hot water heating systems should default to their respective unoccupied set-points using the appropriate loop pumps.
4. All domestic hot water systems will be set no higher than 120°F or 140°F for cafeteria and kitchen service.

Commented [1]: unoccupied cooling temp 80*

Cooling Season Occupied Set Points: 74°F - 78°F

Unoccupied Set Point: 80°F

Heating Season Occupied Set Points: 68°F - 72°F

Unoccupied Set Point: 55°F

Cooling Season Occupied Set Points: 74°F - 78°F

Unoccupied Set Point: 85°F

Heating Season Occupied Set Points: 68°F - 72°F

Unoccupied Set Point: 55°F

In accordance with ASHRAE 55 “Thermal Conditions for Human Occupancy”

Lighting:

1. All unnecessary lighting in unoccupied areas will be turned off. All sStaff should make certain that lights are turned off when leaving the classroom or office when empty. Utilize natural lighting and motion detector light switches where appropriate.
2. All outside lighting shall be is off during daylight hours utilizing both time-clock and photo-sensor technologies.
3. Gym lights should not be left on unless the gym is being utilized.

- 90 4. All lights, with the exception of emergency lighting, will be turned off when [the space is](#)
91 [done being used](#) ~~students and staff leave~~ for the day. Custodians will turn on lights only in
92 the areas in which they are working.
93

94
95 **Water:**

- 96
97 1. All plumbing, building envelope leaks and moisture infiltration must be reported [through](#)
98 [work orders or emergency notification, if appropriate](#), and repaired immediately.
99 2. Grounds watering should only be done between 4am-10am. Ensure that the water service
100 authority rate schedule accommodates the distinction between potable/domestic use and
101 ancillary uses which do not discharge into sanitary sewer systems.
102 3. Sub-meters will be installed on irrigation and cooling tower supply lines to eliminate sewer
103 charges.
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