1. Installing a direct-contact water heater results in a decrease in

A. system response time.
B. part-load efficiency.
C. project budget.
D. NO and CO emissions.

Objective 1A
Task 2
Recall
Answer: D

2. A typical 10,000 sq. ft. (1,111 sq. m) office building has an hourly cooling load of 220,000 btuh and a supply air quantity of 30,000 cfm. Which of the following is true of this building?

A. The lighting energy intensity is excessive.
B. The cfm per ton is within industry standards.
C. The differential temperature across the HVAC equipment may be too low.
D. The space is properly modeled.

Objective 2D
Task 3
Analysis
Answer: C

3. A PID controller operates a chilled water valve to a coil in an air handler unit. The valve oscillates with a period of about 10 seconds. Which of the following is the MOST likely the problem?

A. The "P" term is too large.
B. The "I" term is too large.
C. The "D" term is too large.
D. The valve stem is sticking.

Objective 4A
Task 2
Application
Answer: A