1. An operating control switch for an on-off boiler:

- a) uses a differential spring to reduce cycling
- b) can only have its cut-in setting adjusted
- c) has an un-adjustable span between cut-in and cut-out
- d) utilizes a resistance coil
- e) operates in conjunction with a modutrol motor

2. Combustion air safety switches are commonly found:

- a) on natural draft boilers
- b) on hot water boilers only
- c) on boilers utilizing a forced draft fan
- d) on gas fired boilers only
- e) as non-interlocking devices and take no part in a startup

3. In view of heating boilers, a low fire switch:

- a) is a type of manual over-ride
- b) takes no part in the start-up of an automatic boiler
- c) is a normally closed switch
- d) utilizes a thermal element for its operation
- e) acts as an interlock to ensure minimum damper setting

4. Modulating burner controls operate by regulating:

- a) steam flow and fuel flow
- b) fuel temperature and air flow
- c) fuel flow, air flow, and feedwater pressure
- d) fuel flow, and air flow
- e) fuel flow, and atomizing steam flow

5. Modulating combustion controls:

- a) regulate the steam and feedwater supply
- b) regulate fuel and air supply
- c) control the oil atomizer
- d) control the back draft damper
- e) control the draft and feedwater temperature

6. On a multi-burner boiler the high fire nozzle will:

- a) be in operation on start-up
- b) operate continuously when steam demand exceeds boiler capacity
- c) be ignited by a pilot flame
- d) respond to electrical resistance
- e) operate regardless of where the manual over-ride switch is set

Answers 1=a, 2=c, 3=e, 4=d, 5=b, 6=b