

**Log # 11-013:**

The Energy Code TAG Recommends Approval with the Following Modifications:

**1412.4 Setback and Shut-Off:** For all occupancies other than Group R, HVAC systems shall be equipped with automatic controls capable of accomplishing a reduction of energy use through control setback or equipment shutdown during periods of non-use or alternate use of the spaces served by the system. The automatic controls shall:

- a. Have a minimum seven-day clock and be capable of being set for seven different day types per week,
  - b. Be capable of retaining programming and time settings during loss of power for a period of at least ten hours,
- and
- c. Include an accessible manual override, or equivalent function (e.g., telephone interface), that allows temporary operation of the system for up to two hours.

- EXCEPTIONS:**
1. Systems serving areas which require continuous operation at the same temperature setpoint.
  2. Equipment with full load demands of 2 kW (6,826 Btu/h) or less may be controlled by readily accessible manual off-hour controls.
  3. Systems controlled by an occupant sensor that is capable of shutting the system off when no occupant is sensed for a period of up to 30 minutes.
  4. Systems controlled solely by a manually operated timer capable of operating the system for no more than two hours.

For Group R-1 hotel and motel guest rooms, a minimum of one of the following control technologies shall be required in hotels/motels with over 50 guest rooms such that the space temperature would automatically setback (winter) or set up (summer) by no less than 3°C (5°F) or hotel and motel guest rooms, a minimum of

1. Controls that are activated by the room occupant via the primary room access method - key, card, deadbolt, etc.
2. Occupancy sensor controls that are activated by the occupant's presence in the room.

For ~~Multi-Family~~ Group R-2 and R-3 dwelling units, with electric resistance in-wall heater units, baseboard heaters, or other similar heaters the temperature control for the primary space conditioning system within each dwelling unit shall be provided with at least one programmable thermostat for the regulation of temperature. The thermostat shall allow for, at a minimum, a 5-2 programmable schedule (weekdays/ weekends) and be capable of providing at least two programmable setback periods per day.

Each additional system provided within a dwelling unit shall be provided with at least one adjustable thermostat for the regulation of temperature. ~~The thermostat shall allow for, at a minimum, a 5-2 programmable schedule (weekdays/weekends).~~

- EXCEPTIONS:**
1. Systems controlled by an occupant sensor that is capable of shutting the system off when no occupant is sensed for a period of up to 30 minutes.
  2. Systems controlled solely by a manually operated timer capable of operating the system for no more than two hours.

Each thermostat shall be capable of being set by adjustment or selection of sensors as follows for control heating only: 55°F to 75°F.

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**In addition, the TAG recommends the following change also be made for consistency:**

**503.8.1 Temperature Control:** The primary space conditioning system within each dwelling unit shall be provided with at least one programmable thermostat for the regulation of temperature. The thermostat shall

allow for, at a minimum, a 5-2 programmable schedule (weekdays/ weekends) and be capable of providing at least two programmable setback periods per day.

Each additional system provided within a dwelling unit shall be provided with at least one adjustable thermostat for the regulation of temperature. ~~The thermostat shall allow for, at a minimum, a 5-2 programmable schedule (weekdays/weekends).~~

**EXCEPTIONS:** 1. Systems controlled by an occupant sensor that is capable of shutting the system off when no occupant is sensed for a period of up to 30 minutes.

2. Systems controlled solely by a manually operated timer capable of operating the system for no more than two hours.

Each thermostat shall be capable of being set by adjustment or selection of sensors as follows: