

## Recommended Code Language

Proposed language for the standards includes section number and original standards language in black font, deleted text is ~~in red text with hard strikeouts~~ and added language contained is in blue font and underlined.

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### *Building Energy Efficiency Standards*

#### **SECTION 122 – REQUIRED CONTROLS FOR SPACE-CONDITIONING SYSTEMS**

Space-conditioning systems shall be installed with controls that comply with the applicable requirements of Subsections (a) through (h).

(c) **Hotel/Motel Guest Room and High-rise Residential Dwelling Unit Thermostats.**

Hotel/motel guest room thermostats shall have:

1. Numeric temperature setpoints in °F; and
2. Setpoint stops accessible only to authorized personnel, to restrict over-heating and over-cooling.

High-rise residential dwelling unit thermostats shall meet the control requirements of Section 150(i). Hotel/Motel guest room thermostats shall also meet the requirements 150(q).

#### **SECTION 130 – LIGHTING CONTROLS AND EQUIPMENT—GENERAL**

- (a) Except as provided in Subsections (b) and (c), the design and installation of all lighting systems and equipment in nonresidential, high-rise residential, hotel/motel buildings, and outdoor lighting subject to Title 24, Part 6, shall comply with the applicable provisions of Sections 131 through 139. All lighting controls and equipment shall be installed in accordance with the manufacturer's instructions.
- (b) **Indoor Lighting in High-rise Residential Dwelling Units and Hotel/Motel Guest Rooms.** The design and installation of all lighting systems, lighting controls and equipment in high-rise residential dwelling units and in hotel/motel guest rooms shall comply with the applicable provisions of Section 150(k). Lighting controls in Hotel/Motel Guest rooms shall also meet the requirements of Section 150(q).

#### **SECTION 150 – MANDATORY FEATURES AND DEVICES**

Any new construction in a low-rise residential building shall meet the requirements of this Section. Dwelling units in high rise residential or in hotel /motel buildings shall meet the applicable requirements in subsections (i), (k), and (q).

(q) Hotel/Motel Guest Room Automatic Control of HVAC and Lighting. In hotels and motels, all hardwired lighting, HVAC equipment and half of the receptacles serving each guest room shall be automatically controlled so that no more than 30 minutes the guest room has been vacated, the power for lighting and controlled receptacles will be turned off and the HVAC set points raised by at least 5°F (3°C) in the cooling mode and lowered by at least 5°F (3°C) in the heating mode. Captive card key systems are also deemed as an automatic control. Controlled receptacles shall meet the following requirements:

1. Electric circuits serving controlled receptacles shall be equipped with automatic shut-off controls; and

- 2. At least one controlled receptacle shall be installed within 1 foot from each uncontrolled receptacle or a split-wired duplex receptacle with one controlled and one uncontrolled receptacle shall be installed; and
- 3. Controlled receptacles shall have a permanent marking to differentiate them from uncontrolled receptacles.

**ACM Manuals**

The ACM Manual Schedule Tables will be updated with the following changes and additions to Section 2.4.3 Schedules:

Table N2-7 – Schedule Types of Occupancies & Sub-Occupancies will include an additional line for Hotel/Motel Guest Room with Occupancy Controlled Setback Thermostat and Lighting.

Addition of Table N2-X - Residential Occupancy Schedules (Including Hotel/Motel Guest Rooms) with Occupancy Controlled Setback Thermostat and Lighting

Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Heating (°F)																								
WD	59	59	59	59	59	59	67	67	66	66	66	65	65	65	65	65	65	66	66	66	66	66	59	59
SAT	59	59	59	59	59	59	67	67	66	66	66	65	65	65	65	65	65	66	66	66	66	66	59	59
Sun	59	59	59	59	59	59	67	67	66	66	66	65	65	65	65	65	65	66	66	66	66	66	59	59
Cooling (°F)																								
WD	79	79	79	79	79	79	79	79	80	80	80	81	81	81	81	81	81	80	80	80	80	80	79	79
SAT	79	79	79	79	79	79	79	79	80	80	80	81	81	81	81	81	81	80	80	80	80	80	79	79
Sun	79	79	79	79	79	79	79	79	80	80	80	81	81	81	81	81	81	80	80	80	80	80	79	79
Lights (%)																								
WD	10	10	10	10	10	30	45	45	45	45	9	18	18	18	18	13	13	30	60	80	90	80	60	30
SAT	10	10	10	10	10	30	45	45	45	45	9	18	18	18	18	13	13	30	60	80	90	80	60	30
Sun	10	10	10	10	10	30	45	45	45	45	9	18	18	18	18	13	13	30	60	80	90	80	60	30
Equipment (%)																								
WD	10	10	10	10	10	30	45	45	45	45	30	30	30	30	30	30	30	30	60	80	90	80	60	30
SAT	10	10	10	10	10	30	45	45	45	45	30	30	30	30	30	30	30	30	60	80	90	80	60	30
Sun	10	10	10	10	10	30	45	45	45	45	30	30	30	30	30	30	30	30	60	80	90	80	60	30
Fans (%)																								
WD	on																							
SAT	on																							
Sun	on																							
Infiltration (%)																								
WD	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
SAT	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sun	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
People (%)																								
WD	90	90	90	90	90	90	70	40	40	20	20	20	20	20	20	30	50	50	50	70	70	80	90	90
SAT	90	90	90	90	90	90	70	40	40	20	20	20	20	20	20	30	50	50	50	70	70	80	90	90
Sun	90	90	90	90	90	90	70	40	40	20	20	20	20	20	20	30	50	50	50	70	70	80	90	90
Hot Water (%)																								
WD	0	0	0	5	5	5	80	70	50	40	25	25	25	25	50	60	70	70	40	25	20	20	5	5
SAT	0	0	0	5	5	5	80	70	50	40	25	25	25	25	50	60	70	70	40	25	20	20	5	5
Sun	0	0	0	5	5	5	80	70	50	40	25	25	25	25	50	60	70	70	40	25	20	20	5	5

**Figure 1: ACM Table N2-X - Residential Occupancy Schedules (Including Hotel/Motel Guest Rooms) with Occupancy Controlled Setback Thermostat and Lighting**