

CECD1-16-22

IECC: C406.2.5.5

Proponents: Michael Jouaneh, representing IECC CE Electrical power, lighting, and renewables subcommittee

2024 International Energy Conservation Code [CE Project]

Revise as follows:

C406.2.5.5 L05 Residential light control. In *buildings* with Group R-2 occupancy spaces, interior lighting systems shall comply with the following:

1. ~~In common area area, the following space types: Restrooms, laundry rooms, storage rooms, and utility rooms shall have automatic full-OFF occupancy occupant sensor controls that comply with the requirements of C405.2.1.1: Laundry/washing areas, dining areas, food preparation areas, seating areas, exercise areas, playing areas, and massage spaces. . Each additional control device shall control no more than 5,000 sq.ft (464 m²).~~
2. ~~In dwelling units, not less than one receptacle in each living room and each sleeping room shall be controlled by a switch in that room.~~
- 2-3. Each dwelling unit shall have a switch ~~main control~~ by the main entrance that turns off all the lights ~~lighting~~ and all switched receptacles in the dwelling unit. The switch shall be clearly labeled. ~~Two switched receptacles shall be provided in living and sleeping rooms or areas and clearly identified. All switched receptacles shall be located within 12 inches (30 cm) of an unswitched receptacle. The main control shall be permitted to have two controls, one for permanently wired lighting and one for switched receptacles. The main controls should be clearly identified as "lights master off" and "switched outlets master off."~~

Reason: This is primarily, but not entirely, an editorial cleanup. The following issues are addressed by this proposal:

1. Some of the listed common area space types are already required to have occupant sensor controls in base code (restrooms, storage rooms).
2. Space types are revised to conform to the list of spaces in C405.3.2(2) for consistency with other sections of the code, and to improve enforceability.
3. Occupant sensor is a defined term in the code, but occupancy sensor is not.
4. No common areas in residential building would have individual rooms greater than 5,000 sf.
5. The proposal was not clear on the quantity of switched receptacles required – two per apartment unit, or two per living and sleeping room. We revised to one per living and sleeping room.
6. Usually in residential construction switched receptacles are counted as meeting NEC receptacle requirements. We were not clear on why these are required to be in addition to NEC receptacle requirements (which is the effect of requiring a non-dim receptacle within 12 inches).
7. Having two controls at the main entry makes it more likely that the receptacle switch control will just be left "on".

Cost Impact: The code change proposal will neither increase nor decrease the cost of construction.

Will not change the cost of construction