



# TRIGGERS for 2013 Title 24, Part 6

## Non-Residential Lighting

### Interior Lighting – Alterations

| Change this<br>(and nothing else)                       | Lighting Power, % of Area Category Allowance | Mandatory Measures                           |                                    |                                  |   | Prescriptive Requirements                |  |                         |
|---|--|--|------------------------------------|----------------------------------|---|--|--|-------------------------|
|   |  | Lighting Control Devices & Systems<br>§110.9 | Indoor Lighting Controls<br>§130.1 | Sign Lighting Controls<br>§130.3 | Installation Acceptance Certificate<br>§130.4 | Secondary Daylit Zone Controls<br>§140.6 | Calculate Lighting Power Density<br>§140.6 | Sign Lighting<br>§140.8 |
| Luminaire Addition                                      | NA   | YES  | YES <sup>ABCDE</sup>               | YES                              | YES   | YES                                      | YES <sup>GH</sup>                          | no                      |
| Luminaire Alteration <sup>I</sup>                       | ≤ 85%  | YES  | YES <sup>ACF</sup>                 | no                               | YES   | no                                       | YES <sup>GH</sup>                          | no                      |
| Luminaire Alteration <sup>I</sup>                       | >85%   | YES  | YES <sup>ABCD</sup>                | no                               | YES   | no                                       | YES <sup>GH</sup>                          | no                      |
| Skylights or Daylighting                                | NA   | YES  | YES <sup>G</sup>                   | no                               | YES   | no                                       | YES  | no                      |
| Luminaire Modification In-Place (Quantity ≥40 fixtures) | NA   | YES  | YES <sup>ABCD</sup>                | no                               | YES   | no                                       | YES  | no                      |
| Lighting Wiring Alterations                             | NA   | YES  | YES                                | no                               | YES   | no                                       | no   | no                      |
| Illuminated Signs                                       | NA   | no   | no                                 | YES                              | no  | no                                       | no   | YES                     |

<sup>A</sup> 130.1(a) - Area Controls: All luminaires shall be functionally controlled with manually switched ON and OFF lighting controls. Each area enclosed by ceiling-height partitions shall be independently controlled.

<sup>B</sup> 130.1(b) - Multi-Level Lighting Controls: The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5W per square foot shall meet the requirements of §130.1(b)

<sup>C</sup> 130.1(c) - Shut-OFF Controls: In addition to lighting controls installed to comply with Sections 130.1 (a) and (b), all installed indoor lighting shall be equipped with controls that meet the requirements of §130.1(c)

<sup>D</sup> 130.1(d) - Automatic Daylighting Controls: Any altered luminaires providing general lighting that are in or are partially in daylit zones shall meet the requirements of §130.1 (d) 2

<sup>E</sup> 130.1(e) - Demand Responsive Controls: Lighting power in buildings > 10,000 sq. ft. shall be capable of being automatically reduced in response to a demand response signal as per §130.1(e)

<sup>F</sup> Two level lighting controls are allowed per Table 141.0-E

<sup>G</sup> Daylighting requirements in Section 130.1(d) do not apply if the installed altered lighting power is less than or equal to 85% of the allowed power using the Area Category Method, defined in Section 140.6. The indicated requirements do not apply to indoor lighting alterations that are replacement-in-kind of parts of an existing luminaire, including only: new lamps, lamp holders, or when a replacement of those parts is not a luminaire-modification-in-place in accordance with §141.0 (b) 21 (iii). Additionally, requirements do not apply to lighting alterations directly caused by the disturbance of asbestos. Lighting adjustments in conjunction with asbestos abatement shall comply.



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<sup>H</sup> When the daylighting control requirements of §130.1(d) are triggered by the addition of skylights to an existing building and the lighting system is not re-circuited, the daylighting control need not meet the multi-level requirements in § 130.1(d). Daylit areas must be controlled separately from non-daylit areas. An automatic control must be able to reduce lighting power by at least 65% when the daylit area is fully illuminated by daylight.

<sup>I</sup> The requirements apply only if  $\geq 10\%$  of the luminaires in a space where the alteration takes place. Reference Tables 141.0-E and 141.0-F.

<sup>J</sup> Required only if greater than 40 fixtures within a year are altered per Reference Table 141.0-F.



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