

# New California Energy Regulations - October 1, 2005

**New Title 24 Energy regulations apply to construction or alteration of residential and non-residential buildings that submit an application for permit, on or after October 1, 2005.**

**\*New single family dwelling plan submittals shall include an electrical circuit diagram and a lighting fixture schedule.**

## **Changes that will affect your project include:**

**Residential Lighting** [§150(k)]. Requires high efficacy lighting equipment or energy savings controls for permanently installed luminaires in all lighting functions, as well as require recessed luminaires in insulated ceilings to be airtight. At least 50 percent of the lighting wattage in kitchens will be required to be high efficacy. Lighting in bat hrooms, garages, laundry rooms, and utility rooms will be required to be high efficacy or controlled by a "manual on" occupant sensor. Lighting in other indoor spaces will be required to be high efficacy or be controlled by a dimmer switch. Outdoor lighting permanently mounted to a building will be required to be high efficacy or be controlled by a motion sensor with an integral photo sensor. Lighting in parking lots and parking garages for eight or more vehicles will be required to meet all applicable mandatory and prescriptive requirements in other sections of the Standards that apply to such lighting. Lighting installed in the common areas of low-rise residential buildings with four or more dwelling units will be required to be high efficacy or be controlled by an occupant sensor.

**Air Retarding Wrap** [§150(f)]. The requirements for an infiltration barrier, which no longer apply, will be replaced by requirements for air retarding wraps, as specified in the Residential ACM Manual.

**Space Heating and Space Cooling** [§151(f)7]. Air conditioners and heat pumps will be required to meet new federal appliance standards as specified in the Appliance Efficiency Regulations.

**Space Conditioning Ducts** [§151(f)10]. Duct insulation requirements for Package D will be R-4.2 in climate zone 6 (Santa Monica). Duct insulation requirements for Package C will be R-8.

**Additions and Alterations: Prescriptive Approach** [§152(a)1]. The fenestration in additions up to 100 square feet will be required to meet the U-factor requirements in Package D. Alterations that add fenestration area will be required to meet the U-factor, fenestration area, and SHGC requirements of Package D with the exception that increases of fenestration area up to 50 square feet that meet the U-factor and SHGC requirements will be allowed.

**Certificate of Acceptance (non-residential and multi-family)** [§10-103(b)]. A Certificate of Acceptance will be required to be filed with and approved by the enforcement agency prior to receiving a final occupancy permit. The Certificate of Acceptance will indicate that the applicant has demonstrated acceptance requirements in the plans and specifications, which current requirements for installation certificates are met, and that currently required operating and maintenance information (as well as the Certificate of Acceptance) were provided to the building owner.

**Enforcement Agency Requirements** [§10-103(e) 2]. The enforcement agency inspection requirements will be revised for buildings, which have used a compliance option that requires field verification and diagnostic testing, to require the building department to not approve the building until the building department has received a Certificate of Field Verification and Diagnostic Testing that has been signed and dated by the Home Energy Rating System (HERS) rater.