



**ELECTRICAL CODE MANUAL
COUNTY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
BUILDING AND SAFETY DIVISION
Based on the 2008 LACEC**

**ECM 450.01
11-24-09
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TRANSFORMERS (ENERGY EFFICIENT)

The California Energy Commission, per Section 1605.3(t) of Title 20 of the California Code of Regulations, has adopted a new energy efficiency standard for low-voltage, dry-type, ventilated distribution transformers with an input of 600-volts or less, single and three phases, 15 to 1000 kva, that operate at a frequency of 60-Hertz, manufactured after March 1, 2003. These transformers shall bear the manufacturing date, Energy Star label, and a TP-1 designation.

“Low Voltage Dry Type Transformer” does not include autotransformers, drive transformers, grounding transformers, harmonic transformers with a rating of K-4 or greater, impedance transformers, machine tool transformers, rectifier transformers, regulating transformers, sealed and non-ventilating transformers, transformers with multiple voltage taps with the highest voltage tap more than 20% greater than the lowest voltage tap, UPS transformers, and welding transformers.

Effective March 1, 2003, “Low Voltage Dry Type Transformer” installations within County of Los Angeles, Building and Safety’s jurisdiction shall bear the manufacturing date, Energy Star label, and TP-1 designation.

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Supersedes ECM 450 01, dated 03-31-03