



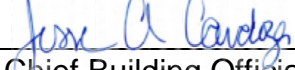
INFORMATIONAL BULLETIN

Bulletin No.: 195

Page 1 of 3

Effective: 10/06/2011

Revised: 05/02/2023


Chief Building Official

PROCEDURE FOR ELECTRICAL EQUIPMENT FIELD EVALUATIONS AND ROSTER OF APPROVED ELECTRICAL TESTING LABORATORIES

Purpose

The purpose of this information bulletin is to identify and summarize California Electrical Code (CEC) sections relating to the suitability of electrical conductors and equipment, define a field evaluation procedure acceptable to the City of Irvine Division of Building and Safety (IDBS) for evaluation, approval, and listing of such equipment in the field, and to establish a roster of approved electrical testing laboratories.

Definitions

Approved. Acceptable to the Authority Having Jurisdiction.

Authority Having Jurisdiction (AHJ). An organization, office, or individual responsible for enforcing the requirements of a code or standard, or for approving equipment, materials, an installation, or a procedure.

City. The City of Irvine.

Equipment. A general term, including fittings, devices (e.g., electrical panels, switchgear, etc.), appliances, luminaires, apparatus, machinery, and the like used as a part of, or in connection with, an electrical installation.

Field Evaluation. An arrangement for an electrical testing laboratory to thoroughly evaluate (including research, testing, corrections, and engineering analysis) a field installed electrical product in its entirety to applicable standards where the product has not been previously listed or has been field-modified.

Labeled. Equipment or materials to which has been attached a label, symbol, or other identifying mark of an organization that is acceptable to the authority having jurisdiction and concerned with product evaluation, that maintains periodic inspection of production of labeled equipment or materials, and by whose labeling the manufacturer indicates compliance with appropriate standards or performance in a specified manner.

Listed. Equipment, materials, or services included in a list published by an organization that is acceptable to the authority having jurisdiction and concerned with evaluation of products or services, that maintains periodic inspection of production of listed equipment or materials or periodic evaluation of services, and whose listing states that either the equipment, material, or service meets appropriate designated standards or has been tested and found suitable for a specified purpose.

Code Requirements

CEC Section 110.2 requires conductors and equipment to be approved. The City of Irvine Division of Building and Safety is the AHJ for the installation of conductors and equipment within the City and is responsible for determining the suitability of such conductors and equipment for installation and use.

CEC Section 110.3 establishes considerations to be evaluated by the AHJ when judging conductors and equipment for suitability and recognizes labeling or listing as evidence of suitability. Section 110.3 also requires that product testing, evaluation, and labeling/listing be performed by recognized qualified electrical testing laboratories and shall be in accordance with applicable product standards recognized as achieving equivalent and effective safety for equipment installed to comply with the CEC. Labeling and listing of conductors and equipment may be done at the time of fabrication or in the field according to the field evaluation procedure prescribed below.

Field Evaluation Procedure

Field evaluations performed by approved electrical testing laboratories will be acceptable provided the testing laboratory complies with the following:

1. The testing laboratory performing a field evaluation shall be a testing laboratory from the list in the Approved Electrical Testing Laboratories section below.
2. The testing laboratory shall notify the assigned IDBS electrical plan check engineer and building inspector in writing prior to performing a field evaluation. The notification shall include the scope of work to be performed by the testing laboratory.
3. The testing laboratory shall ensure that field evaluations of equipment are carried out by personnel who are trained and qualified to perform such evaluations.
4. The testing laboratory shall submit preliminary findings to IDBS including any discrepancies and nonconformities according to the provisions of NFPA 791 Section 7.2.3.
5. A complete written report shall be submitted to IDBS prior to final inspection of the project stating tests performed, problems encountered/solved, and results of the field evaluation including any additional activities (if any) required to complete the evaluation. The evaluation and test report format, content and documentation shall be according to NFPA 791 Chapter 7.
6. At the conclusion of the field evaluation, the testing laboratory shall affix the applicable permanent label to the product indicating the name or logo of the testing laboratory, the date, the address, the location, and the results of the service.

Approved Electrical Testing Laboratories

The following electrical testing laboratories are recognized and accepted by IDBS. Other agencies may be added to this list after review and approval by IDBS to ensure proper accreditations as a recognized qualified electrical testing laboratory.

OSHA Testing Laboratories Recognized by the United
 States Department of Labor

www.osha.gov

IAS Field Evaluation Bodies Recognized by the
 International Accreditation Service

www.iasonline.org