

Standard Information

Standard Number: UL 50E / CSA C22.2.94.2

Standard Name: Enclosures for Electrical Equipment, Environmental Considerations

Standard Edition and Issue Date: 2nd Edition Dated October 16, 2015

Date of Previous Revision to Standard: 1st Edition Revised April 27, 2012

Effective Date of New/Revised Requirements

Effective Date (see Schedule below): **January 2, 2017**

Impact, Overview, Fees and Action Required

Impact Statement: A review of all Listing Reports is necessary to determine which products comply with new/revised requirements and which products will require re-evaluation. **NOTE:** Effective immediately, this revised standard will be exclusively used for evaluation of new products unless the Applicant requests in writing that current requirements be used along with their understanding that their listings will be withdrawn on Effective Date noted above, unless the product is found to comply with new/revised requirements.

Overview of Changes:

The second edition of UL 50E was issued to include the following requirements:

- Addition of environmental Type ratings 3X, 3RX, and 3SX
- Revisions to specify tightening torque for field installed screws and fasteners critical to maintaining the environmental integrity of an enclosure
- Elimination of Hand Flexing Test for Gaskets.

Specific details of new/revised requirements are found in table below.

Schedule: So that shipping of products with Listing Marks will not be interrupted, an **approximate** schedule has been established to ensure Listing Reports are found compliant by Effective Date:

- May 2, 2016= 8 Month Report Review – Intertek will review all Reports. Update if compliance is verified or issue Findings Letter/Quote for any re-evaluations needed
- July 4, 2016= 6 Month Quote Cut-off – Quotes returned for necessary re-evaluations
- December 2, 2016 = 30 Day Warning – Client advised of all non-compliant Reports to be Suspended
- **January 2, 2017** = Effective Date – ATM Suspended for all non-compliant Reports

Fees: An initial review of Listing Report (s) will be covered by a direct billing project and will be invoiced at not more than \$1000 per report.

Client Action Required:

Information – To assist our Engineer with review of your Listing Reports, please submit technical information in response to the new/revised paragraphs noted in the attached or explain why these new/revised requirements do not apply to your product (s).

Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.

Description of New/Revised Technical Requirements

Clause	Verdict	Comment
1	Info	Scope <i>The second edition of UL 50E includes the addition of environmental Type ratings 3X, 3RX, and 3SX.</i>
8.1	Info	General (Tests) <i>New clause added;</i>
8.1.3		Screws and screw type fasteners for doors or covers on enclosures not marked per Clause 9.8 shall be tightened to the following values: a) A No. 6 screw capable of being tightened with a screwdriver shall be tightened to a torque of 1.36 N•m (12 lbf-in); b) A No. 8 screw capable of being tightened with a screwdriver shall be tightened to a torque of 2.26 N•m (20 lbf-in); c) A screw capable of being tightened with a screwdriver other than No. 6 or No. 8 shall be tightened to a torque of 3.96 N•m (35 lbf-in); d) An unslotted, bolthead screw, direct-bearing or securing a clamp, shall be wrench-tightened to a torque of 18.1 N•m (160 lbf-in).
8.1.4		<i>New clause added;</i> Screws and screw type fasteners for doors or covers on enclosures marked per Clause 9.8 shall be tightened to the specified value.
9	Info	Marking
9.8		<i>New section added;</i> Screws and screw type fasteners
9.8.1		When tested per Clause 8.1.4, the specified torque value shall: a) Be located on the enclosure and visible during installation, such as inside the cover or in the installation instructions shipped with the enclosure. b) Consist of the following or equivalent: "Tighten screw to ___ N•m (in-lb)". c) Where different torque values are assigned to different screws, the markings shall be clear as to which torque value is assigned to which screw.
		CUSTOMERS PLEASE NOTE: This Table and column "Verdict" can be used in determining how your current or future production is or will be in compliance with new/revised requirements.