



March 17, 2016  
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**To:** Subscribers to Certification Services under the Standard for Enclosures for Electrical Equipment – Non-Environmental Considerations and Enclosures for Electrical Equipment – Environmental Considerations, UL 50 and UL 50E (respectively)

**Subject: Implementation of Continuing Certification Program for Enclosures for Electrical Equipment**

## BACKGROUND

This Bulletin is to inform you that UL has introduced the Continuing Certification approach to the Standards Technical Panel (STP) for Enclosures for Electrical Equipment of UL 50 and UL 50E and the STP has voted on the implementation of the changes in requirements. The result of this vote is that the change in requirements, transitioning from UL 50/50E 12<sup>th</sup> Ed./1<sup>st</sup> Ed. to UL 50/50E 13<sup>th</sup> Ed./2<sup>nd</sup> Ed., do not warrant enclosures certified to the present requirements to be recertified to the recently adopted requirements (refer to UL CSDS work area opened 2015-12-10 under UL 50 Ed. 13). Consequently, UL will not conduct an Industry File Review on enclosures currently certified to UL 50 11<sup>th</sup> Ed. or UL 50/50E 1<sup>st</sup>/2<sup>nd</sup> Ed. Please visit the following link for additional information regarding the Continuing Certification approach

[https://ifs.ul.com/ifr/IFR.nsf/\\$\\$Template%20for%20CCPage?OpenForm](https://ifs.ul.com/ifr/IFR.nsf/$$Template%20for%20CCPage?OpenForm)

## CONTINUING CERTIFICATION APPROACH

Please refer to the following for specific details of this new approach.

- December 23, 2019 has been established as Effective Date for the change in certification requirements from UL 50/50E 12<sup>th</sup>/1<sup>st</sup> Ed.
- Existing certifications of these controllers to UL 50/50E will be allowed to maintain certification and not be withdrawn on or after the Effective Date of December 23, 2019, provided there are no changes to the enclosure design that require a certification decision in accordance with the latest published Standard Revision. See the attached document for a summary of requirements. For example, changes to the enclosure design, ratings, or the use of alternate components requiring a certification decision submitted on or after the Effective Date of December 23, 2019, the enclosure (in its entirety) will need to be evaluated to the latest Standard Revision, UL 50/50E 13<sup>th</sup>/2<sup>nd</sup> Ed. Additionally, new/revised requirements may require action to be taken in the future.
- Until September 4, 2016, enclosures may be investigated to UL 50 11<sup>th</sup> Ed., UL 50/50E 12<sup>th</sup>/1<sup>st</sup> Ed, or UL 50/50E 13<sup>th</sup>/2<sup>nd</sup> Ed.
- After September 4, 2016 and until December 23, 2019, enclosures may be investigated to either UL 50/50E 12<sup>th</sup>/1<sup>st</sup> Ed. or UL 50/50E 13<sup>th</sup>/2<sup>nd</sup> Ed.
- After the December 23, 2019, only the latest Standard Revision of UL 50/50E 13<sup>th</sup>/2<sup>nd</sup> Ed. will be used for enclosure investigations.
- Products under category CYIV (Cabinets and Cutout Boxes) that are certified to the 11<sup>th</sup> edition of UL 50 will be required to be marked with “11<sup>th</sup> Ed.”, “UL 50 11<sup>th</sup> Ed.”, or “UL 50 11” beginning on September 4, 2016.

- Products under category CYIV (Cabinets and Cutout Boxes) that are certified to the 12<sup>th</sup> edition of UL 50/1<sup>st</sup> edition of UL 50E will be required to be marked with “12<sup>th</sup> Ed./1<sup>st</sup> Ed.”, “UL 50 12<sup>th</sup> Ed./UL 50E 1<sup>st</sup> Ed.”, or “UL 50 11/UL 50E 12” beginning on the December 23, 2019

#### **INFORMATION ON IMPLEMENTATION PLAN**

The plan to transition certified enclosures allows manufacturers two options:

- A. Maintain certification to existing UL 50 11<sup>th</sup> Ed. or UL 50/50E 12<sup>th</sup>/1<sup>st</sup> Ed. under the Continuing Certification approach; or
- B. Transition certification to UL 50/50E 13<sup>th</sup>/2<sup>nd</sup> Ed. either now or in the future.

This Continuing Certification approach enables manufacturers to transition to new requirements based on their own schedule and their market demands. It will also allow manufacturers to continue producing products presently certified provided there are no changes made to the products or there are no modifications where compliance must be confirmed.

Should you have any questions regarding this letter or the Continuing Certification approach, please contact Salvatore Porcillo at +1 631 546 2620 or [Salvatore.Porcillo@ul.com](mailto:Salvatore.Porcillo@ul.com)

Respectfully,



**BRUCE MAHRENHOLZ**  
**CPO Director**  
Certification Programs Office

## SUMMARY OF REQUIREMENTS

The following is a brief summary of the new and revised paragraphs in the Standard for Enclosures for Electrical Equipment, Non-environmental Considerations, UL 50, 13<sup>th</sup> Ed., published October 16, 2015.

Section Paragraph Clause	Summary of requirements
1.1, 5.8, 6.3.3.1, 6.3.4.1 - 6.3.4.3, 7.8, 7.8.1,	Addition of Types 3X, 3SX, 3RX. These are the same as current enclosure Types 3, 3S, and 3R, except that they have “additional” corrosion protection equal to the corrosion protection requirements for Types 4X and 6P.
6.1.4, 6.1.5	Previous requirements did not allow for any sharp edges. The revised requirements allow for sharp edges if they are protected by a barrier, needed for a working function of the enclosure, or if procedures are described by instructions or markings to avoid the hazard. They also require a new test for sharp edges if referee measurements are needed.
6.5.5	Clarification of allowable materials for cast metal. Previous requirements did not specify what types of cast metal could be used, only that zinc cast metal could not be used. New requirements specify that cast shall be iron, steel, copper, brass, or aluminum and shall not be aluminum with less than 80% aluminum or magnesium based. Exclusion of zinc based cast metal remains.
6.7.1.2	New requirement that doors shall open a minimum of 90 degrees.
6.10.5.2	New requirements for nonmetallic-sheathed cable clamps. Adds component requirements for cable clamps and requirements for openings used with cable clamps.
9.2.1, 9.2.1.1	New requirements added to allow notching of the front flanges of cabinets used for panelboards for the purpose of hanging the cover during installation and maintenance.
9.2.2	New requirements to allow slot and tab fastenings in cabinets when other acceptable fasteners are also used.
Annex B	Clarification of references to CSA standards

## SUMMARY OF REQUIREMENTS

The following is a brief summary of the new and revised paragraphs in the Standard for Enclosures for Electrical Equipment, Environmental Considerations, UL 50E, 13<sup>th</sup> Ed., published October 16, 2015.

Section Paragraph Clause	Summary of requirements
1.1, 5.7, 7.1.1, 7.2.3.1, 7.2.4.1, 7.3.3.1 – 7.3.3.3, 7.3.4.1, 7.3.5.1, 7.5.2, 7.6.1, 8.3.4, 8.5.2, 8.5.3, 8.9, 8.13.1.1, 8.13.3.1, 9.2.3, 9.3.2, 9.3.3, 9.3.7, 9.5.1, 9.5.2, 9.5.3, 9.7.1, 9.7.2, Table 1, Table 2, Table C.1	Addition of Types 3X, 3SX, 3RX. These are the same as current enclosure Types 3, 3S, and 3R, except that they have “additional” corrosion protection equal to the corrosion protection requirements for Types 4X and 6P.
5.6, 7.7.1, 7.7.4 – 7.7.7, 8.13.2.1, 8.13.3.4, Annex B	Revision to waive the gasket compression test for certain types of gaskets (those not subjected to periodic compression, rubber, and those with air space). Also to update the method to be consistent with UL 157.
7.2.1.3	Previous requirement for brass inserts required inserts that were at least 80% brass. The revised requirements allow for inserts with 60% or more brass.
8.1.3, 9.8, 9.8.1	New requirement that screws of field installed or removable components be tightened to values specified in the standard prior to environmental tests, or be tightened to a manufacturer specified value and the enclosure marked with this value. The values specified in the standard are considered values representative of hand tightening.
8.13.2	Previous requirements required that gaskets be subject to hand flexing in addition to tensile and elongation tests. New requirements eliminate the need for hand flexing.