

STANDARD INFORMATION

Standard: UL 858

Standard ID: Standard for Safety Household Electric Ranges [UL 858:2014 Ed.16+R:04Jun2025]

Previous Standard ID:

Standard for Safety Household Electric Ranges [UL 858:2014 Ed.16+R:30Apr2025]

Standard for Safety Household Electric Ranges [UL 858:2014 Ed.16+R:04Apr2025]

Standard for Safety Household Electric Ranges [UL 858:2014 Ed.16+R:02Aug2023]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **August 6, 2028**

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: Per our accreditation, Intertek is required to review reports against the standard revisions to confirm compliance. Once compliance is confirmed, the standard reference in the report is updated to show continued compliance to the technical requirements of the standard. Reports not updated to this version by the effective date above will be withdrawn.

All reports certified to UL 858 must be certified to the June 4, 2025, revision prior to the effective date.

This standard contains Functional Safety requirements.

Overview of Changes:

June 4, 2025:

- ANSI Approval for the April 4, 2025, revision, no technical changes

April 30, 2025:

- Temporary exclusion to ANSI Approval for the April 4, 2025, revision, no technical changes

April 4, 2025:

- GFCI Interoperability Test
- OTA Requirements

Specific details of new/revise requirements are found in table below

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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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.



STANDARD INFORMATION

CLAUSE	VERDICT	COMMENT
54A		<i>New section added;</i> GFCI Interoperability Test
54A.1		A sample of the appliance is tested to the UL 101 GFCI Interoperability Test requirements. The appliance shall be operated under the set of conditions defined in Section 59, Temperature Test.
Supplement SA	Info	SAFETY OF SMART ENABLED HOUSEHOLD ELECTRIC RANGES
SA3A		<i>New section added;</i> Remote Safety Firmware/Safety Software Updates
SA3A.1		<p>The following clauses apply when the manufacturer declares the appliance has Class B firmware or software and has the functionality to remotely update this firmware or software.</p> <p>Note: An update occurs when firmware or software replaces or modifies the previous version of the Class B firmware or software. Additionally, an update occurs when the same version of Class B firmware or software is replaced during the remote update process.</p> <p>For example, consider a software update that includes both Class A and Class B software. If the Class A software is a modified version of the original and the Class B software has not been modified, though will be re-installed on a microcontroller, then this is considered a software update and subjected to the relevant requirements of Section SA3A.</p>
SA3A.2		<p>The Class B firmware or software intended to be updated, shall comply with Controls Using Software requirements in UL 60730-1.</p> <p>The remotely actuated control function, including the software update function, shall comply with the Remotely Actuated Control Functions requirements in UL 60730-1. With respect to transmission faults, the Note in Clause H.9.12.4.2.3.1 of UL 60730-1, Transmission is considered normative.</p>
SA3A.3		<p>Note: Remotely actuated control functions may be connected to separate, independent devices, which may themselves contain control functions or provide other information. Any data exchange between these devices shall not compromise the integrity of the Class B control function. A remotely actuated</p>



CLAUSE	VERDICT	COMMENT
		<p>control function is a function providing any operation by control devices through external means. This includes, but is not limited to:</p> <ul style="list-style-type: none">a) The use of communication lines/protocols;b) Additional hardware and/or software;c) IR/RF transmission; ord) All combinations of (a) to (c); <p>via Internet using, for example modems, portable telephones, etc.</p>
SA3A.4		<p>User authorization is required prior to any remote update of Class B firmware or software. This will be evaluated in accordance with Clause H.9.12.4.5.3 of the Software download and installation requirements in UL 60730-1.</p> <p>Note: User authorization can be a one-time event. This one-time event may be when the consumer registers their appliance with the manufacturer, or downloads the application needed to remotely operate the appliance on their smart device (e.g. cell phone, tablet, etc.).</p>
SA3A.5		<p>The remote update of firmware or software shall occur when the appliance is in a ready-state, that is, with all loads de-energized. The software that enforces the appliance to be in a ready-state shall be at least Class A.</p>
SA3A.6		<p>The correct operation of the appliance's safety functions shall be maintained after the Class B firmware or software is updated.</p> <p>Note: When determining which safety functions need to be verified after the update has been completed, consideration is to be given to the specific aspects of the software that have been updated.</p>
SA3A.7		<p>Compliance is checked by a functional test of a remote software update and then a functional test to verify the proper operation of the appliance's protective control functions.</p>