

## STANDARD INFORMATION

**Standard:** UL 858

**Standard ID:** Standard for Safety Household Electric Ranges [UL 858:2014 Ed.16+R:12Sep2019]

**Previous Standard ID:** Standard for Safety Household Electric Ranges [UL 858:2014 Ed.16+R:04Jun2018]

## EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

**Effective Date:** **November 30, 2022**

## 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 Reports not updated to this version by the effective date above will be withdrawn.

### Overview of Changes:

- Update to Surface Element Turn Off
- Off Marking and Heat Setting

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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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
		<i>Additions to existing requirements are <u>underlined</u> and deletions are shown <del>lined out</del> below.</i>
47	Info	<b>Operation of Controls</b>
47.2	Info	Only one operation shall be required to turn a surface unit off.
		<b><i>New clause added;</i></b>
47.2.1		A single switch or control which turns all cooktop elements of the cooktop off satisfies the requirements of 47.2 provided that the control also resets all individual cooktop elements to an off state and the requirements of 47.1 are required to subsequently activate a cooktop element.
53	Info	<b>Marking of Controls</b>
		The control for each surface unit shall be marked to indicate the off position <del>and the position for each heat level.</del> <u>by:</u>
53.3		<u>a) The single word "Off" ("OFF"); or</u> <u>b) An open circle (O) at least 1/8 inch (3 mm) in diameter; or</u> <u>c) The symbol IEC 60417-5010.</u>
		<u>Each surface unit shall also indicate the position for multiple heat levels from lowest to highest. When numeric values are used, 0 may only be used to indicate the Off position. Graphic symbols may be used provided color is not the primary indication.</u>
Supplement SB	Info	<b>SAFETY OF ELECTROMECHANICAL AND ELECTRONIC CONTROLS</b>



CLAUSE	VERDICT	COMMENT
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SB5	Info	Control Functions
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**Control functions**

Function Title	Requirement	UL 858 Reference	UL 858A Reference	Proposed UL 60730 Declaration			
				Hardware Safety Investigation			Software safety
				Function Class	Operating/ protective	Type	Class
Cooktop Control - Including the control of a warming zone element and induction cooktops							
2-Steps ON	The control for a surface unit shall require a minimum of two operations to activate the surface unit. <u>After the first surface unit has been activated, activation of any subsequent surface unit must be comprised of two steps, both of which may be Class A functions.</u>	Section 47	Table 6.1	B <u>NOTE: Only 1 step needs to be Hardware and software Single fault tolerant.</u>	Operating	2	B
1-Step OFF when an off switch per 47.2.1 is provided	The control for a surface unit may require multiple steps or simultaneous switch operation.	47.2.1	Table 6.1	A	Operating	1	A
1-Step OFF when an off switch per 47.2.1 is provided	The control for a cooktop shall require only one operation and shall turn all surface units off.	47.2.1	Table 6.1	B	Operating	2	B
Self-Clean Oven Temperature Regulating Control Table 6.1 of UL 858A							
2-steps ON	The control shall require 2 (or more) operations to initiate the self-clean mode	91.5	Figure 6.4	B <u>NOTE: Only 1 Step needs to Be hardware And software single fault tolerant.</u>	Operating	2	B

Table SB5.1