STANDARDS UPDATE NOTICE (SUN)
ISSUED: January 20, 2020

STANDARD INFORMATION

This SUN establishes the withdrawal of CSA E60335-2-55 and introduces CSA C22.2 No. 60335-2-55 as the superseding standard.

Superseded Standard Number: CSA E60335-2-55
Superseded Standard Name: Household and Similar Electrical Appliances - Safety - Part 2-55: Particular Requirements for Electrical Appliances for use with Aquariums and Garden Ponds

Superseding Standard Number: CSA C22.2 No. 60335-2-55
Superseding Standard Name: Household and Similar Electrical Appliances - Safety - Part 2-55: Particular Requirements for Electrical Appliances for use with Aquariums and Garden Ponds

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **September 1, 2020**

IMPACT, OVERVIEW, 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requests in writing that current requirements be used along with their understanding that their listings will be withdrawn on Effective Date noted above, unless the product is found to comply with new/revised requirements.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:

- Additional requirements for markings
- Addition test for resistance to moisture
- Additional requirements for lamps and lampholders
- Additional requirements for overcurrent devices and fuseholders
- New supply cord flexing test
- Minimum spacings and insulation thicknesses for class 0 applications are established

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

If the applicable requirements noted in the table are not described in your report(s), these requirements will need to be confirmed as met and added to your report(s) such as markings, instructions, test results, etc. (as required).

Client Action:

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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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

STANDARD INFORMATION

CLAUSE	VERDICT	COMMENT
		Additions to existing requirements are underlined and deletions are shown lined out below.
6	Info	**Classification**
6.1		*[Replace the first sentence of this clause in the Part 1 with the following]* Appliances intended to be immersed fully or partially in water for cleaning and/or during use shall be **Class I**, **Class II**, or **Class III**. All other appliances shall be **Class 0**, **Class I**, **Class II**, or **Class III**.
7	Info	**Marking and instructions**
7.12.1A		***New clause added;*** The maximum input rating marked on appliances intended for use on a nominal 120 V branch circuit protected by an overcurrent device rated or set at not more than 15 A shall not exceed 1500 W at 120 V.
7.12.1B		***New clause added;*** If the construction of an appliance makes allowance for cleaning or similar servicing by the user that involves the exposure of any normally enclosed or protected **live part** to accidental contact, the appliance shall be clearly and permanently marked with a warning that such servicing should be done with the appliance disconnected from the supply circuit.
7.12.1C		***New clause added;*** Appliances that rely on a bracket for compliance with Clause 20.1 shall be marked to indicate the purpose and location of the bracket.
7.12.1D		***New clause added;*** Glass-enclosed aquarium heaters shall be marked in a permanent manner with the following readily visible warning: DO NOT OPERATE DRY and NE PAS UTILISER À SEC
7.12.1E		***New clause added;*** Unless the installation location or position is self-evident, permanently connected appliances whose performance depends on proper location or position shall be marked to indicate proper installation (e.g., “top”, “bottom”).

CLAUSE	VERDICT	COMMENT
7.16		*[Add the following to this clause in the Part 1]* If fuses are provided, the maximum size, in amperes, of the fuse to be used in each circuit shall be marked on or adjacent to its fuseholder. Other relevant ratings, including time characteristic, breaking capacity, and voltage, shall be included with the current rating if replacement with a fuse that has other ratings could result in non-compliance with this Standard.
15	Info	**Moisture resistance**
15.3A		***New clause added;*** Appliances intended a) for use outdoors shall comply with the requirements of CAN/CSA-C22.2 No. 94.2 for Type 3R enclosures; and b) for submersion shall comply with the requirements of CAN/CSA-C22.2 No. 94.2 for Type 6P enclosures.
15.3B		***New clause added;*** Appliances having joints or openings that can be exposed to the entrance of fluids that can have an impact on shock hazards shall not show failure either by test or by visual inspection when operated as follows: a) The appliance shall be operated with all controls at the maximum heat position until temperatures become stable. Immediately after disconnection from the power supply, the appliance shall withstand the leakage current test of Clause 16.2. b) The appliance shall again be heated as required by Item a) and, as appropriate, filled to the maximum extent indicated on the appliance or immersed for 1 h in cold water having an initial temperature of 15 °C. Cold water shall also be poured over exposed joints or openings that are likely to be exposed to spillage during use or cleaning. The appliance shall then be drained or removed from the water, external moisture shall be removed, and within 1 h the appliance shall withstand a repeat of the leakage current test of Clause 16.2. c) After being tested as required by Item b), the appliance shall be operated dry at the voltage specified during the normal temperature test in Clause 11 and with all controls at the maximum heat position for 240 h, during which time the appliance shall be permitted to cool to **room temperature** five times (every 48 h). After the 240 h period, the test of Item b) shall be repeated. d) The test of Item b) shall be repeated twice, except that the leakage current test shall be conducted only after the second filling or immersion. **Note:** *These tests may be conducted on a separate sample.*
20	Info	**Stability and mechanical hazards**

CLAUSE	VERDICT	COMMENT
20.1		***New clause added;*** *[In the third paragraph of this clause in the Part 1, replace all occurrences of 10° with 15°, and delete the last two paragraphs of the clause]*
21	Info	**Mechanical strength**
21.1		***New clause added;*** *[Add the following as the first paragraph of this clause]* The 2 J blows specified in Clause 21.1DV.2 of the Part 1 shall also be applied to guards for **live parts**. Glass enclosures of heating elements and **thermostats** for aquarium heaters shall not be subjected to this test.
22	Info	**Construction**
22.8		*[Add the following as the second paragraph of this clause in the Part 1]* Covers required to enclose wiring, bare **live parts**, etc., that open for cleaning and do not require the use of a **tool** for opening or removal shall be permanently secured to the frame or enclosure by means of hinges, chains, or other equivalent means, unless the appliance complies with Clause 8.1 with the cover removed. These covers shall incorporate an interlock or shall be marked in accordance with Clause 7.12.1B.
22.39		*[Add the following clauses to the Part 1]*
22.39A		***New clause added;*** Edison-base lampholders shall be prevented from turning by means other than friction.
22.39B		***New clause added;*** Appliances incorporating Edison-base lampholders shall have polarized **supply cords**, and the screwshell of the Edison-base lampholder shall be connected to the identified (neutral) conductor unless the lamp is supplied from a transformer winding that is electrically separate from the primary winding.
22.39C		***New clause added;*** Lamps shall be replaceable without dismantling the appliance or any portion thereof unless dismantling does not disturb electric parts or damage the assembly means.

CLAUSE	VERDICT	COMMENT
22.39D		***New clause added;*** Lampholders shall be designed and located so that no bare **live parts** other than the screwshell of Edison-base lampholders will be exposed to contact by persons replacing lamps, if the lamps are readily replaceable from the outside of the appliance.
22.39E		***New clause added;*** Lampholders having an aluminum screwshell shall not be used in an area that would allow exposure to moisture.
22.101A		***New clause added;*** Unless baffled in order to prevent molten metal, flaming particles, etc., from falling through to the supporting surface, openings in external enclosures shall not be located directly below a) terminals; b) heater elements other than those with metal sheaths that are cast in, brazed on, or swaged to external enclosures; c) wires; or d) other **live parts**.
22.101B		***New clause added;*** Aluminum-sheathed elements shall not be used in appliances where the elements are immersed in liquid during normal use.
22.101C		***New clause added;*** Overcurrent devices shall be of types recognized as suitable for the particular application and shall be readily accessible from the outside of appliances, but not without opening a door or cover that is hinged or attached in an equivalent manner.
22.101D		***New clause added;*** Fuseholders shall be constructed and installed so that bare **live parts** other than the screwshell in plug fuses will not be exposed to contact by persons removing or replacing fuses, i.e., they shall be dead front. The screwshells of plug fuseholders and the contact of extractor-post-cartridge-type fuseholders adjacent to the mounting surface shall be connected to the load side of the circuit.
25	Info	**Supply connection and external flexible cords**

CLAUSE	VERDICT	COMMENT
		New clause added; *[Replace Note 3 in the Part 1 with the following]*
25.3DV		Where **supply leads** in the terminal box are intended for connection to the power supply conductors at the time of installation, they shall be a) 0.78 mm for sheet steel; b) 1.11 mm for aluminum; or c) 1.08 mm for other non-ferrous metal.
		[Replace this clause with the following] **Supply cords** shall have temperature ratings that are suitable for the temperature encountered on surfaces of the appliance that the **supply cord** could contact during normal use.
25.7		**Supply cords** for indoor appliances shall be minimum Type SPT-2, SVT, or equivalent cord of the not-forhard- usage type. **Supply cords** for outdoor appliances shall be minimum Type SOW, STW, or equivalent cord of the extrahard- usage outdoor type. **Note:** *The CE Code, Part I, Table 11 specifies suitable uses for **supply cords**.*
		[Add the following to this clause in the Part 1]
25.8DV.1		The length of the **supply cord** and attachment plug, as measured from where the **supply cord** enters the appliance to the face of the attachment plug, or the overall length of a **cord set** supplied with the appliance shall be at least 0.6 m and not greater than 2.1 m.
		[Add the following to this clause in the Part 1] Cord-connected appliances that are not subjected to the test specified in this clause of the Part 1 because they are not moved while in operation shall have their **supply cord** or **cord set** withstand the following test. The test shall be conducted on a separate sample.
25.14		The flexing shall be conducted at the point on the **supply cord** where the cord enters the enclosure or the appliance plug. The rate of flexings shall be 10 cycles per minute, and the number of cycles shall be 5000. One cycle shall consist of the movement of the **supply cord** from one position of the most extreme flex to the opposite position of the most extreme flex and back again, but no more than a total of 180°, and in the direction resulting in the most severe test.

CLAUSE	VERDICT	COMMENT
		During the test, the **supply cord** shall be under a tension of 0.12 kg with the tension applied to the **supply cord** 200 mm from the point of the **supply cord** entry. The test shall not result in exposure, breakage, or discontinuity of the conductors or displacement or breakage of the anti-kink device. The appliance shall still function and comply with the electric strength test of Clause 16.3.
29		***New section added;*** **Clearances, creepage distances and solid insulation** *[Revise the second paragraph (compliance statement) in this clause in the Part 1 as follows]* Compliance is checked by the requirements and tests of Clauses 29.1 to 29.3, except for Class 0 appliances, which shall comply with Clauses 29.1A and 29.2A.
29.1A		Minimum clearances in Class 0 appliances shall be the greater of those determined in accordance with Clause 29.1 or the values given in Table 29.1A.
		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.