

CTL DECISION SHEET (DSH)

Standard(s) (incl. year)	Subclause(s)	Tracking No.	Year
IEC 60335-1:2010 /AMD1:2013/AMD2:2016 IEC 60335-2-7:2008 /AMD1:2011/AMD2:2016 IEC 60335-2-11:2008/ AMD1:2012/AMD2:2015	22.51	2118	2019
Category			
HOUS			
Subject	Keywords	Developed by	Approved at
Applicable standards for elect Possibility of unsafe operation of washing machine & tumble dryer with remote operation	- Remote operation without giving rise to a hazard. - Users' voice - Wi-Fi	ETF 1	2020 CTL Plenary Meeting
Question			
<p>Are washing machines (IEC 60335-2-7) & tumble dryers (IEC 60335-2-11) which can be operated remotely out of sight (e.g. by users' voice or Wi-Fi connection outside home) regarded as appliances which operate remotely without giving rise to a hazard, in clause 22.51 of IEC 60335-1?</p>			
<p>3.1.11 <u>dangerous malfunction</u> unintended operation of the appliance that may impair safety</p>			
<p>22.51 A control on the appliance shall be manually adjusted to the setting for remote operation before the appliance can be operated in this mode. There shall be a visual indication on the appliance showing that the appliance is adjusted for remote operation. <u>The manual setting and the visual indication of the remote mode are not necessary on appliances that can</u> – operate continuously, or – operate automatically, or – <u>be operated remotely,</u> <u>without giving rise to a hazard.</u></p> <p><i>Compliance is checked by inspection.</i> NOTE Examples of appliances that can operate continuously, automatically or remotely without giving rise to a hazard are fans, storage water heaters, air conditioners, refrigerators and drives for awnings, windows, doors, gates and rolling shutters.</p>			
Decision			
No. Such remotely operated washing machines and tumble dryers are not covered by the note to clause 22.51. They are not regarded as appliances that can operate continuously, automatically or remotely without giving rise to a hazard.			

Explanatory notes

The decision was confirmed in TC61 Busan meeting held on October 2018 against the following OSM/HA DEC.

“dangerous malfunction” of OSM/HA DEC that these products are classified as “NOT possible unsafe operation”, TC61 decided as above proposal.

Edition 2014

GUIDE FOR SAFE AND UNSAFE OPERATION- ANNEX TO OSM/HA DEC. 401

OSM/HA / Ad Hoc WG “listing standards for dangerous malfunction” (Cologne 2008-06-25)

The ad hoc WG “listing standard for dangerous malfunction” composed by Camiciotti (convenor), Lescure, Skripsky, Kuhlmeier, Fietz, Guirado, Jefferis, Balassi and Luettmann revised in Cologne on 25/06/2008 the list of standards approved in Malaga on the basis of the document OSM/HA (IT)05/2008.

P.U.O. = possible unsafe operation

N.P.U.O. = not possible unsafe operation

Standards	Possible unsafe operation	Not possible unsafe operation	Comments
60335-2-7		X	
60335-2-11		X	