OSM/IN DECISION

Standard:	EN 60730-1:2000 + A12:2003 + A1:2004 + A13:2004 + A14:2005 + A15:2007 + A16:2007 + A2:2008	**Sub clause:**	Annex ZF	**Sheet N°:**	OSM/IN 252
Subject:	Resetting of control after voltage dip test	**Key words:**	- Voltage dip	**Meeting N°:**	21 (2011)
				Item:	4.1.1

Question:

When the test of ZF.9.1 (voltage dip of 100 % for 250 cycles) is applied to an independently mounted electronic water valve with a separate user interface, the valve shut down and it is necessary to manually restart the equipment via the user interface. This is a designed safety feature to prevent flooding of the property during power failure.

According to the standard, *"any error such as change of state, destruction of data, and loss of connection is permitted, providing the initial state is restored automatically after the test"*. Does this mean that, in this case, the water valve should remain on or is it permissible for the water flow to stop, provided it can easily be restarted? The initial state can be considered to be the 'standby state', to which the product defaults by design.

The note b in table ZF.3.1 column C states that the compliance criteria is based upon controls being unsupervised during use. Therefore, for a supervised product interface the compliance criteria of the EMC standards should apply, which allows user intervention to re-start the product.

Is it, therefore, permissible for a safe shutdown of the operating system into standby mode to be allowed if the control is supervised and this will result in a safer situation for the end user?

Decision:

It is permissible for a manual restart to be necessary after the voltage dip test for independently mounted and incorporated controls that are intended for operation when attended.

Explanatory notes:

According to the note b of table ZF.3, the compliance criteria in the standard assumes that the control is unsupervised in the end user application.