

Subject 985

May 4, 2018

SUMMARY OF TOPICS

The following topics for the Standard for Safety for Household Fire Warning System Units, UL 985, are being recirculated:

1. Alarm Verification Labeling

2. Revision to Charging Current Test

COMMENTS DUE: June 4, 2018

For your convenience in review, proposed additions to the previously proposed requirements dated 2017-12-08 are shown underlined and proposed deletions are shown ~~lined-out~~.

1. Alarm Verification Labeling

RATIONALE

Responses to comments have been posted within the 985 Proposal Review Work Area dated 2017-12-08.

PROPOSAL

79.880.1(b) (13) The following information shall be included:

"WARNING"

"THIS UNIT INCLUDES AN ALARM VERIFICATION FEATURE THAT WILL RESULT IN A DELAY OF THE SYSTEM ALARM SIGNAL FROM THE INDICATED CIRCUITS. THE TOTAL DELAY (CONTROL UNIT PLUS SMOKE DETECTORS) SHALL NOT EXCEED 60 SECONDS. NO OTHER SMOKE DETECTOR SHALL BE CONNECTED TO THESE CIRCUITS ~~UNLESS APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.~~"

Information shall be provided for the circuit, control unit delay time, smoke detector model, and smoke detector delay time. The following or equivalent format may be used.

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CIRCUIT (ZONE)	CONTROL UNIT DELAY – SEC.	SMOKE DETECTOR	
		MODEL	DELAY – SEC.
			(a)

^a Include detector data or the following or equivalent statement: "The delay (power-up) (start-up) time marked on the installation wiring diagram of the smoke detector or on the installed smoke detector(s) is to be used."

2. Revision to Charging Current Test

RATIONALE

Responses to comments have been posted within the 985 Proposal Review Work Area dated 2017-12-08.

PROPOSAL

51.2.4 At the conclusion of the discharge period, the maximum (alarm) loads indicated in 51.2.5 – 51.2.6 are to be applied for 4 minutes. The battery terminal voltage of the discharge battery and the voltage of all output circuits is/are then to be measured.

Exception No. 1: Where a combination system includes carbon monoxide signaling, after the 4 minutes of fire or carbon monoxide alarm, the maximum carbon monoxide alarm load shall continue to be applied for a period of not be less than 12 hours. The 5-second "off" time of the carbon monoxide alarm signal shall be permitted to be changed to 60 seconds plus or minus 10 percent.

Exception No. 2: The secondary power source of a household carbon monoxide system shall not be required to operate the system for 12 hours of alarm if the power source of carbon monoxide detectors and carbon monoxide audible notification appliances incorporating a low-power radio (wireless) transmitter/transceivers are capable of providing at least 24 hours in the normal condition, followed by 12 hours of alarm.

51.2.5 The maximum alarm load is to be applied for 4 minutes for fire alarm conditions.

51.2.6 Where a combination system includes carbon monoxide signaling, the following load(s) are to be applied, as applicable to achieve minimum 12 hours of carbon monoxide audible alarm:

a) The product is to be placed in a carbon monoxide alarm condition and the maximum carbon monoxide alarm load is to be applied for 12 hours when the secondary power source (battery) of the product supplies power for the carbon monoxide audible alarm signal specified in 41.3.2.1;

b) The product is to be placed in a carbon monoxide alarm condition and the maximum carbon monoxide alarm load is to be applied for 4 minutes when all of the following conditions are met:

1) the secondary power source (battery) of the product does not supply power for the carbon monoxide audible alarm signal(s) specified in 41.3.2;

2) the interconnected product(s) employing the audible device(s) signaling the carbon monoxide audible alarm signal specified in 41.3.2.1 individually meet the 24 hour normal standby period followed by the 12 hour alarm period requirements; and

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