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September 11, 2015

Reference: File SV30438 Project 4787057303

Subject: Surface Burning Characteristics of Plastic Water Meters

The following is a summary of the test results obtained on plastic water meters designated by GLOBAL EMC INC as "M201" under Project 4787057303. The testing was conducted at ULC's test facility in Toronto and completed on September 10, 2015.

The tests were conducted in general accordance with the Standard, CAN/ULC-S102.2-10, *Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Coverings, and Miscellaneous Materials and Assemblies*, Seventh Edition.

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Underwriters Laboratories of Canada authorizes the above named company to reproduce this Report provided it is reproduced in its entirety. Underwriters Laboratories Canada did not witness the production of the test samples nor were we provided with information relative to the formulation or identification of component materials used in the test samples. The test results relate only to the items tested and may not apply to subsequently produced samples or assemblies.

The sole purpose of this investigation was to provide fire test data for the plastic water meters submitted and tested in general accordance with the requirements of CAN/ULC-S102.2-10. This data should not be considered representative of test results for other products in the absence of testing the product in accordance with CAN/ULC-S102.2-10.

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Very truly yours,

Beny Spensieri Jr

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Project Handler
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Reviewed by:

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TEST METHOD:

The tests were conducted in general accordance with the Standard, CAN/ULC-S102.2-10, *Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Coverings, and Miscellaneous Materials and Assemblies*, Seventh Edition.

Only the M201 model was tested, as per the client's statement that models M201, M201C, and M201CH are all the same size and have the same parts.

The samples consisted mainly of black injection molded plastic with several other components. The water meters were nominally 104 mm high x 87 mm wide x 188 mm long.

For all tests the first specimen was placed 406 mm from the burners to expose it to the hottest point in the flame. Subsequent specimens were located 1828 mm from the previous specimen along the entire length of the furnace.

The test specimens were conditioned to constant mass at a temperature of 23 ± 3°C and at a relative humidity of 50 ± 5 percent prior to testing.

The test specimens were laid on the floor of the tunnel furnace. A 350 mm long by 560 mm wide by 1.6 mm thick, uncoated, steel plate was placed on the specimen mounting ledge at the fire end of the tunnel furnace "upstream" from the gas burners to complete the 7620 mm chamber length. An airtight water seal was maintained around the furnace lid during the test.

RESULTS:

A summary of test results is tabulated below. Graphical plots of flame spread and light transmission data are attached. The test results relate only to the actual samples tested.

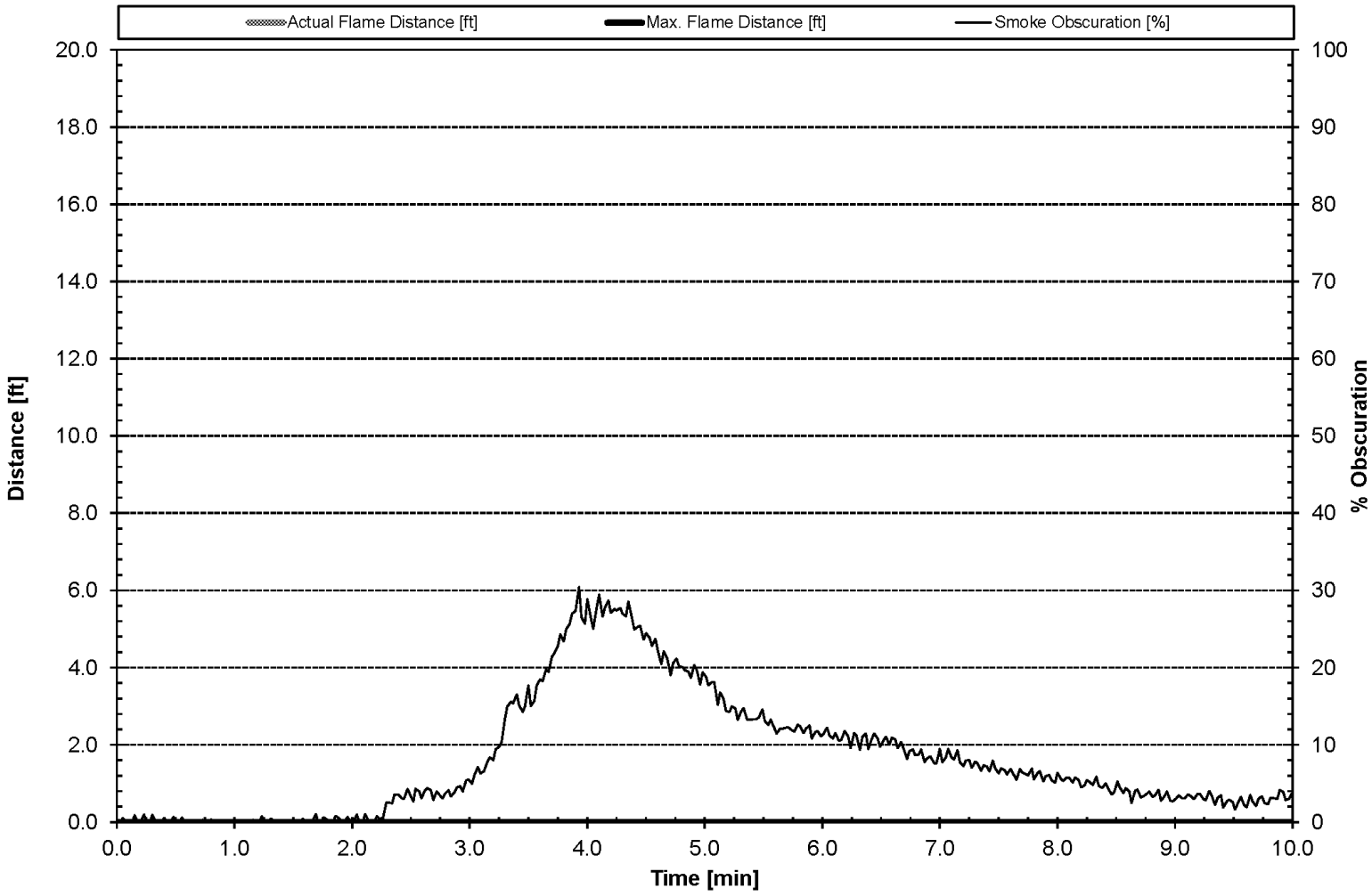
Test No.	Sample Description	Calculated Values	
		Flame Spread Value (FSV)	Smoke Developed Value (SDV)
1	Water meter M201, spaced 1828 mm OC	0	53.4
2	Water meter M201, spaced 1828 mm OC	0	53.2
3	Water meter M201, spaced 1828 mm OC	0	56.9

The surface burning characteristics of the water meters described herein warrants the assignment of the following rating or classification in comparison to untreated red oak as 100 and inorganic reinforced cement board as 0.

Material Details	Rating or Classification	
	Flame Spread Rating (FSR)	Smoke Developed Classification (SDC)
Model M201 water meters spaced 1828 mm on center	0	55

SURFACE BURNING CHARACTERISTICS
GLOBAL EMC INC.
Water Meters

Test #1: FSV = 0; SDV = 53.4 **CAN/ULC-S102.2-10**



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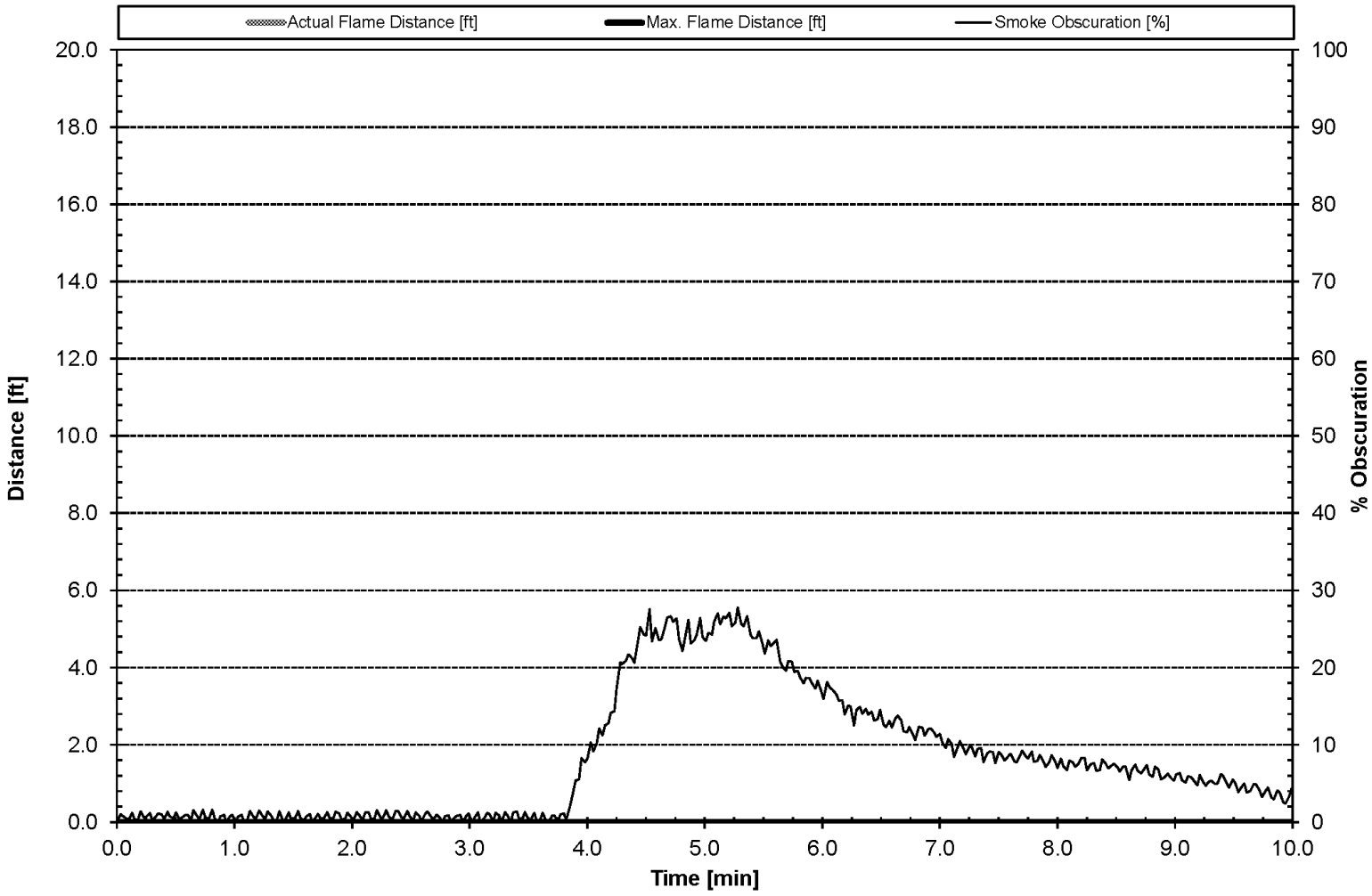
SURFACE BURNING CHARACTERISTICS
GLOBAL EMC INC.
Water Meters

Test #2: FSV = 0; SDV = 53.2 **CAN/ULC-S102.2-10**



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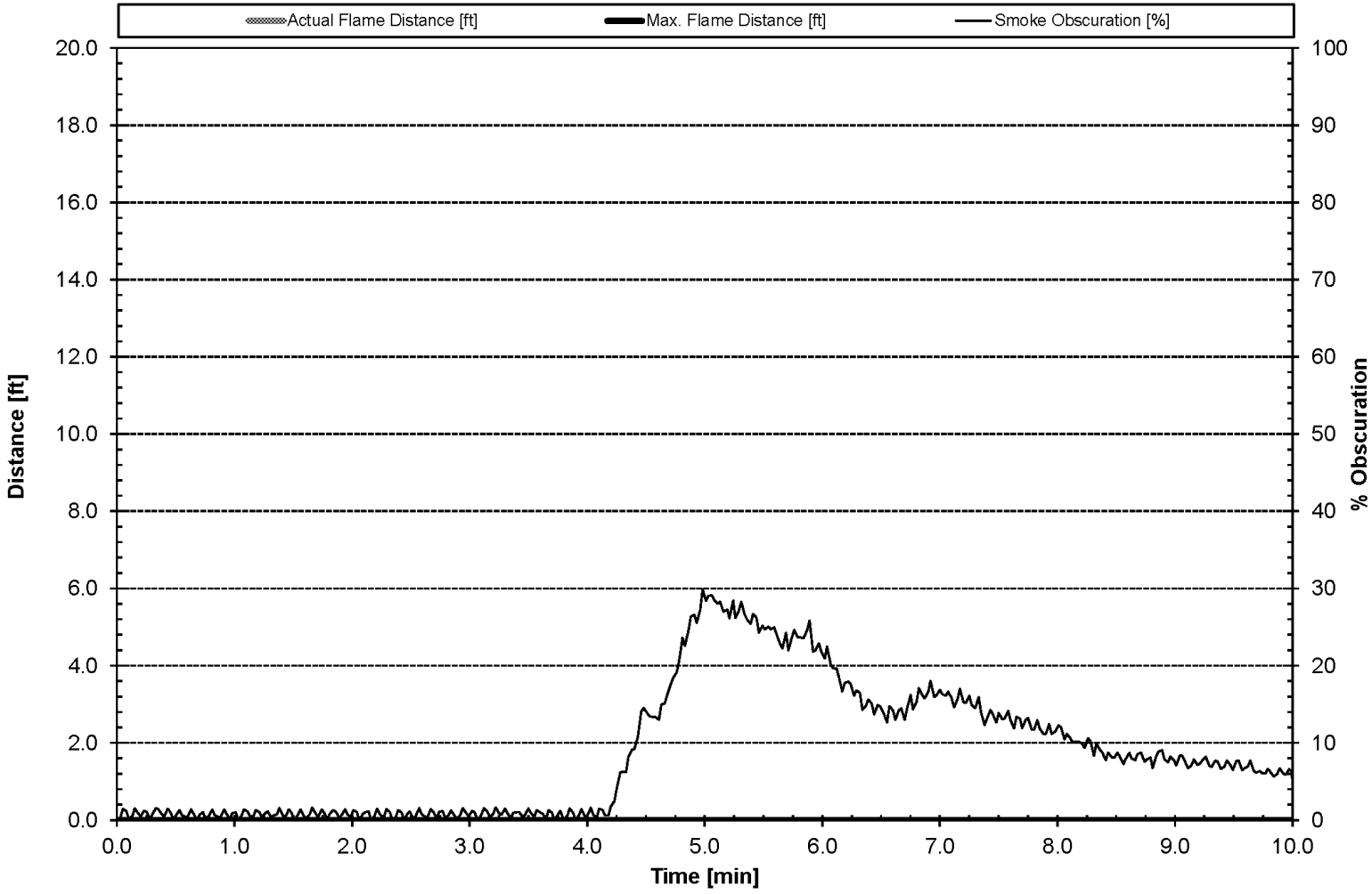
SURFACE BURNING CHARACTERISTICS
GLOBAL EMC INC.
Water Meters

Test #3: FSV = 0; SDV = 56.9 **CAN/ULC-S102.2-10**



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