April 2, 2014

Prior to the fifth issue, the requirements for products covered by this outline were included in the first and second issues of the Outline of Investigation for Power-Operated Dispensing Devices for Gasoline/Ethanol Blends with Ethanol Content Greater Than 15 Percent, and the third and fourth issues of the Outline of Investigation for Power-Operated Dispensing Devices for Gasoline/Ethanol Blends Other Than Gasohol (E10).

UL 87A

Outline of Investigation for Power-Operated Dispensing Devices for Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations up to 85 Percent (E0 – E85)

Issue Number: 9

April 2, 2014

Summary of Topics

This ninth issue of the Outline for Power-Operated Dispensing Devices for Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations up to 85 Percent (E0 – E85), UL 87A, eliminates the material level testing of casting impregnation materials and places sole compliance on the Long Term Exposure Test.

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INTRODUCTION

1 Scope

1.1 These requirements apply to power-operated dispensing devices, rated 600 V ac or less, for use with motor fuels. Motor fuels, as defined by these requirements, include one or more of the fuels described in 1.2.

1.2 Dispensing devices covered by these requirements are intended for use with one or more of the following:

a) Gasoline formulated in accordance with the Standard Specification for Automotive Spark-Ignition Fuel, ASTM D4814;

b) Gasoline/ethanol blends with nominal ethanol concentrations up to 25 percent ethanol (E25), consisting of gasoline formulated in accordance with the Standard Specification for Automotive Spark-Ignition Fuel, ASTM D4814, when blended with denatured fuel ethanol formulated to be consistent with the Standard Specification for Denatured Fuel Ethanol for Blending With Gasoline for Use as Automotive Spark-Ignition Engine Fuel, ASTM D4806; or

c) Gasoline/ethanol blends with nominal ethanol concentrations above 25 percent formulated in accordance with the Standard Specifications in item (b) or formulated in accordance with the Standard Specification for Ethanol Fuel Blends for Flexible-Fuel Automotive Spark-Ignition Engines, ASTM D5798, as applicable.

1.3 Requirements for the installation and use of dispensing devices are included in the Code for Motor Fuel Dispensing Facilities and Repair Garages, ANSI/NFPA 30A, and the National Electrical Code, ANSI/NFPA 70.

1.4 These requirements apply to wiring methods used to install or interconnect such control equipment when the equipment is located directly on or within the housing of the dispensing device.

1.5 These requirements do not apply to control equipment that may authorize, monitor, or interrupt operation of a power-operated dispensing device, nor other auxiliary equipment. These products would be covered under the Standard for Control Equipment for Use With Flammable Liquid Dispensing Devices, UL 1238.

1.6 These requirements do not cover dispensing devices for use with diesel fuel, biodiesel fuel, diesel/biodiesel fuel blends, fuel oil, or kerosene, which are covered in the Outline of Investigation for Power Operated Dispensing Devices for Diesel Fuel, Biodiesel, Diesel/Biodiesel Blends With Nominal Biodiesel Concentrations Up To 20 Percent (B20), Kerosene and Fuel Oil, UL 87B.

1.7 These requirements do not cover dispensing devices for use with LP-Gas, which are covered under the Standard for Power-Operated Dispensing Devices for LP-Gas, UL 495.

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