JOINT CANADA – UNITED STATES NATIONAL STANDARD

ANSI/CAN/UL 87B:2024

STANDARD FOR SAFETY

Power-Operated Dispensing Devices for Diesel Fuel, Biodiesel Fuel, Diesel/Biodiesel Blends with Nominal Biodiesel Concentrations up to 20 Percent (B20), Kerosene, and Fuel Oil

ANSI/UL 87B-2024

SCC FOREWORD

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UL Standard for Safety for Power-Operated Dispensing Devices for Diesel Fuel, Biodiesel Fuel, Diesel/Biodiesel Blends with Nominal Biodiesel Concentrations up to 20 Percent (B20), Kerosene, and Fuel Oil, ANSI/CAN/UL 87B

Second Edition, Dated May 31, 2024

Summary of Topics

This new Second Edition of ANSI/CAN/UL 87B dated May 31, 2024 is being issued as a new joint US/Canada Standard reflecting the latest ANSI and SCC approval dates and incorporating the proposal dated September 29, 2023.

The new requirements are substantially in accordance with Proposal(s) on this subject dated September 29, 2023.

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MAY 31, 2024

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ANSI/CAN/UL 87B:2024

Standard for Power-Operated Dispensing Devices for Diesel Fuel, Biodiesel Fuel, Diesel/Biodiesel Blends with Nominal Biodiesel Concentrations up to 20 Percent (B20), Kerosene, and Fuel Oil

Prior to the first edition, the requirements for the products covered by this Standard were included in the Outline of Investigation for Power-Operated Dispensing Devices for Diesel Fuel, Biodiesel Fuel, Diesel/Biodiesel Blends with Nominal Biodiesel Concentrations up to 20 Percent (B20), Kerosene, and Fuel Oil, UL 87B.

First Edition – February, 2015

Second Edition

May 31, 2024

This ANSI/CAN/UL Safety Standard consists of the Second Edition.

The most recent designation of ANSI/UL 87B an American National Standard (ANSI) occurred on May 31, 2024. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page, Preface or SCC Foreword.

This Standard has been designated as a National Standard of Canada (NSC) on May 31, 2024.

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Preface

This is the Second Edition of the ANSI/CAN/UL 87B, Standard for Power-Operated Dispensing Devices for Diesel Fuel, Biodiesel Fuel, Diesel/Biodiesel Blends with Nominal Biodiesel Concentrations up to 20 Percent (B20), Kerosene, and Fuel Oil.

ULSE is accredited by the American National Standards Institute (ANSI) and the Standards Council of Canada (SCC) as a Standards Development Organization (SDO).

This Standard has been developed in compliance with the requirements of ANSI and SCC for accreditation of a Standards Development Organization.

This ANSI/CAN/UL 87B Standard is under continuous maintenance, whereby each revision is approved in compliance with the requirements of ANSI and SCC for accreditation of a Standards Development Organization. In the event that no revisions are issued for a period of four years from the date of publication, action to revise, reaffirm, or withdraw the standard shall be initiated.

Annex A identified as Normative, forms a mandatory part of this Standard.

In Canada, there are two official languages, English and French. All safety warnings must be in French and English. Attention is drawn to the possibility that some Canadian authorities may require additional markings and/or installation instructions to be in both official languages.

This Second Edition joint American National Standard and National Standard of Canada is based on, and now supersedes, the First Edition of UL 87B.

Comments or proposals for revisions on any part of the Standard may be submitted at any time. Proposals should be submitted via a Proposal Request in the Collaborative Standards Development System (CSDS) at https://csds.ul.com.

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This Edition of the Standard has been formally approved by the Technical Committee (TC) on Power Operated Dispensing Devices For Petroleum Products, TC 87.

This list represents the TC 87 membership when the final text in this Standard was balloted. Since that time, changes in the membership may have occurred.

TC 87 Membership

Name	Representing	Interest Category	Region
D. Boyd	BP America Inc.	Commercial / Industrial User	USA
C. Cranford	Gilbarco Inc.	Producer	USA
M. Ebert	Fill-Right Company	Producer	USA
W. Fiske	Intertek Testing Services	Testing & Standards Org.	USA

TC 87 Membership Continued on Next Page

TC 87 Membership Continued

Name	Representing	Interest Category	Region
A. Gifford	Central Illinois Manufacturing Company	Supply Chain	USA
D. Grady	Talema Group	Supply Chain	Ireland
D. Gross	Wal-Mart Stores Inc.	Commercial / Industrial User	USA
D. Karimov	Advanced Flow Solutions	Supply Chain	USA
M. Kawate	UL Standards & Engagement	TC Project Manager – Non-voting	USA
W. Koch	Technology Resources, International Inc.	General Interest	USA
P. Legault	Integrated Review Services – Consulting	General Interest	Canada
M. Mailvaganam	self	General Interest	Canada
R. Mclachlan	Sleegers Engineered Products Inc.	Commercial / Industrial User	Canada
J. M. Meyer	Core Engineered Solutions	Supply Chain	USA
R. Moses	Wayne Fueling Systems	Producer	USA
M. Poxson	Michigan Department of Environmental Quality	Government	USA
B. Swiecicki	National Propane Gas Association	General Interest	USA
J. Thompson	Association for Petroleum & Explosives Admin	General Interest	United Kingdom
M. Walters	Superior Energy Systems Ltd	Producer	USA
L. Werner	UL Standards & Engagement	TC Chair – Non-voting	Canada
E. Wolff-Klammer	UL Solutions	Testing & Standards Org.	USA

International Classification for Standards (ICS): 75.200, 75.160.20

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This Standard is intended to be used for conformity assessment.

The intended primary application of this Standard is stated in its scope. It is important to note that it remains the responsibility of the user of the standard to judge its suitability for this particular application.

CETTE NORME NATIONALE DU CANADA EST DISPONIBLE EN VERSIONS FRANÇAISE ET ANGLAISE.

INTRODUCTION

1 Scope

1.1 These requirements apply to power-operated dispensing devices, rated 600 V ac or less, for use with fuels. Fuels, as defined by these requirements, include one or more of the fuels described in 1.3.

1.2 Power-Operated Dispensing Devices for Diesel Fuel, Biodiesel Fuel, Diesel/Biodiesel Blends with Nominal Biodiesel Concentrations up to 20 Percent (B20), Kerosene, and Fuel Oil shall be constructed to comply with the following:

a) In the United States:

1) The requirements defined in the Standard for Power-Operated Dispensing Devices for Petroleum Products, UL 87, and

2) The requirements in this Standard.

b) In Canada:

1) The requirements defined in the Standard for Power-Operated Dispensing Devices for Flammable Liquids, CSA B346;

2) Electrical equipment for flammable and combustible fuel dispensers, CSA C22.2 No. 22, and

3) The requirements in this Standard.

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

a) Diesel fuel, which includes renewable diesel and diesel fuel/biodiesel blends with nominal biodiesel concentrations up to and including 5 % (B0 – B5) formulated in accordance with the Standard Specification for Diesel Fuel Oils, ASTM D975.

b) Diesel/biodiesel, renewable diesel/biodiesel blends, with nominal biodiesel concentrations from 5 % up to 20 % (B6 – B20) formulated in accordance with the Standard Specification for Diesel Fuel Oil, Biodiesel Blends (B6 – B20), ASTM D7467.

c) Biodiesel (B99.9/B100) formulated in accordance with the Standard Specification for Biodiesel Fuel Blend Stock (B100) for Middle Distillate Fuels, ASTM D6751.

d) Kerosene formulated in accordance with the Standard Specification for Kerosine, ASTM D3699.

e) Fuel Oil (heating oil) formulated in accordance with the Standard Specification for Fuel Oils, ASTM D396.

1.4 Products covered by this Standard are intended to be installed and used in accordance with the applicable Codes and Regulations as determined by the Authority Having Jurisdiction (AHJ), such as, but not limited to:

a) In the United States:

1) Flammable and Combustible Liquids Code, NFPA 30;

2) Code for Motor Fuel Dispensing Facilities and Repair Garages, NFPA 30A;

3) National Electrical Code, NFPA 70.