

April 28, 2017

1

UL 1247A

**OUTLINE OF INVESTIGATION FOR VARIABLE SPEED LIMITING
CONTROLS INSTALLED WITH DIESEL ENGINES FOR DRIVING
STATIONARY FIRE PUMPS**

Issue No. 3

April 28, 2017

Summary of Topics

This third issue of Subject 1247A, Outline of Investigation for Variable Speed Limiting Controls Installed With Diesel Engines for Driving Stationary Fire Pumps covers the construction and performance requirements for a variable speed pressure limiting control (VSPLC) and variable speed suction limiting control (VSSEL) intended to be installed on a diesel engine for driving a stationary fire pump at the engine manufacturing location. The minimum set pressure for a VSPLC referenced in 6.17 has been reduced to 90 psig from 100 psig to provide for slightly lower pressures to be discharged into underground piping which can have a pressure rating as low as 100 psig.

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CONTENTS

1 Scope	4
2 Components	4
3 Units of Measurement	4
4 Undated References	5
5 Glossary	5
6 Variable Speed Limiting Controls	5
7 Performance Tests	7
7.1 VSPLC Performance rating	7
7.2 VSSLC Performance test	8
7.3 Engine endurance at lowest operating speed	8
7.4 VSPLC Operation test	9
7.5 VSSLC Operation test	9
7.6 Pressure Transducer (Sensor) Tests	10
7.7 Hydrostatic strength	12
7.8 Elastomeric parts (except gaskets) test	13
7.9 Cycling test	13
7.10 Contaminated water cycle test	14
7.11 Stress-corrosion cracking of brass parts test	14
7.12 Stress-corrosion cracking of stainless steel parts test	15
7.13 Deposit loading test	16
7.14 10-day corrosion test	16
8 Variable Speed Limiting Control Production Tests	17
9 Marking	18

1 Scope

1.1 These requirements cover the construction and performance requirements for a variable speed pressure limiting control (VSPLC) and variable speed suction limiting control (VSSLC) intended to be installed on a diesel engine for driving a stationary fire pump at the engine manufacturing location. In addition to complying with the requirements described herein, the engine with VSPLC or VSSLC shall comply with the applicable requirements of the Standard for Diesel Engines for Driving Stationary Fire Pumps, UL 1247.

1.2 The engines covered by these requirements are intended for installation and use in accordance with the Standard for the Installation of Stationary Fire Pumps for Fire Protection, NFPA 20.

2 Components

2.1 Except as indicated in 2.2, a component of a product covered by this Outline of Investigation shall comply with the requirements for that component.

2.2 A component is not required to comply with a specific requirement that:

- a) Involves a feature or characteristic not required in the application of the component in the product covered by this Outline of Investigation, or
- b) Is superseded by a requirement in this Outline of Investigation.

2.3 A component shall be used in accordance with its rating established for the intended conditions of use.

2.4 Specific components are incomplete in construction features or restricted in performance capabilities. Such components are intended for use only under limited conditions, such as certain temperatures not exceeding specified limits, and shall be used only under those specific conditions.

3 Units of Measurement

3.1 Values stated without parentheses are the requirement. Values in parentheses are explanatory or approximate information.