



Examination Standard for Electrical Equipment for Use in Hazardous (Classified) Locations – General Requirements

Class Number 3600

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Foreword

This standard is intended to verify that the products and services described will meet stated conditions of performance, safety and quality useful to the ends of property conservation. The purpose of this standard is to present the criteria for examination of various types of products and services.

Examination in accordance with this standard shall demonstrate compliance and verify that quality control in manufacturing shall ensure a consistent and reliable product.

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1 INTRODUCTION

1.1 Purpose

- 1.1.1 This standard states testing and certification requirements for electrical equipment for use in hazardous (classified) locations.
- 1.1.2 Testing and certification criteria may include, but are not limited to, performance requirements, marking requirements, examination of manufacturing facility(ies), audit of quality assurance procedures, and a surveillance program.

1.2 Scope

This standard is used in conjunction with the following other standards and standards listed in Paragraph 2.3:

Note: In the event of a conflict between the requirements of this general standard and one of the following specific standards, the requirements of the specific standard shall take precedence.

- 1.2.1 The following standards are applicable to electrical equipment for Class I, II, or III, Division 1 or 2 hazardous (classified) locations.
 - FM Approvals Examination Standard 3610;
 - FM Approvals Examination Standard 3611;
 - FM Approvals Examination Standard 3613;
 - FM Approvals Examination Standard 3615;
 - FM Approvals Examination Standard 3616;
 - FM Approvals Examination Standard 3650;
 - FM Approvals Examination Standard 3620;
 - FM Approvals Examination Standard 6320; and
 - FM Approvals Examination Standard 7320.
- 1.2.2 The following standards are applicable to electrical equipment for Zone 0; Zone 1; Zone 2; Zone 20; Zone 21; or Zone 22 hazardous (classified) locations.
 - ANSI/UL 60079-0;
 - ANSI/UL 60079-1;
 - ANSI/UL 60079-2;
 - ANSI/UL 60079-5;
 - ANSI/UL 60079-6;
 - ANSI/UL 60079-7;
 - ANSI/UL 60079-11;
 - ANSI/UL 60079-13
 - ANSI/UL 60079-15;
 - ANSI/UL 60079-18;
 - ANSI/UL 60079-25;
 - ANSI/UL 60079-26;

- ANSI/UL 60079-28;
- ANSI/UL 60079-30-1;
- ANSI/UL 60079-31;
- ANSI/UL 60079-33;
- ANSI/UL 80079-36; and
- ANSI/UL 80079-37.

1.2.3 Application

This standard shall apply to:

- a) Electrical equipment or parts of electrical equipment rated for use in Hazardous (Classified) Locations as defined by the National Electrical Code® (NEC®), ANSI/NFPA 70;
- b) Associated equipment located outside of the hazardous (classified) location whose design and construction may influence those parts of the equipment within the hazardous (classified) location.

1.3 Basis for Certification

Certification is based upon satisfactory evaluation of the product and the manufacturer in the following major areas:

1.3.1 Examination and tests on production samples shall be performed to evaluate:

- the suitability of the product;
- the proper operation and performance of the product as specified by the manufacturer and required for certification; and
- as far as practical, the durability and reliability of the product.

1.3.2 An examination of the manufacturing facilities and audit of quality control procedures may be made to evaluate the manufacturer's ability to consistently produce the product which is examined and tested, and the marking procedures used to identify the product. Subsequent surveillance may be required by the certification agency in accordance with the certification scheme to ensure ongoing compliance.

1.4 Basis for Continued Certification

The basis for continual certification may include, but is not limited to, the following based upon the certification scheme and requirements of the certification agency:

- production or availability of the product as currently certified;
- the continued use of acceptable quality control procedures;
- satisfactory field experience;
- compliance with the terms stipulated by the certification;
- examination of production samples for continued conformity to requirements, and
- satisfactory surveillance audits conducted as part of the certification agency's product surveillance program.

1.5 Effective Date

The effective date of this certification standard mandates that all products tested for certification after the effective date shall satisfy the requirements of this standard.