

CLASS NUMBER 3611

Examination Standard for Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations

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 Nonincendive Electrical Equipment for use in Class I and II, Division 2, and Class III, Divisions 1 and 2, hazardous (classified) locations as defined in Articles 500, 501, 502 and 503 of the National Electrical Code®, ANSI/NFPA-70 (NEC®).
- 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

- 1.2.1 This standard applies to electrical equipment, or parts of such equipment, for use in Class I and II, Division 2, and Class III, Divisions 1 and 2, hazardous (classified) locations.
- 1.2.2 This standard is intended to be used in conjunction with FM Approvals Standard 3600, Electrical Equipment for Use in Hazardous (Classified) Locations – General Requirements, which includes the general requirements that apply to all types of classified location protection methods.

1.3 BASIS FOR REQUIREMENTS

See FM Approvals Standard 3600.

1.4 BASIS FOR CERTIFICATION

See FM Approvals Standard 3600.

1.5 BASIS FOR CONTINUED CERTIFICATION

See FM Approvals Standard 3600.

1.6 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.

The effective date of this standard is eighteen (18) months after the publication date of the standard for compliance with all requirements.

1.7 SYSTEM OF UNITS

Units of measurement used in this Standard are United States (U.S.) customary units. These are followed by their arithmetic equivalents in International System (SI) units, enclosed in parentheses. The first value stated shall be regarded as the requirement. The converted equivalent value may be approximate. Conversion of U.S. customary units is in accordance with ANSI/IEEE/ASTM SI 10.

1.8 NORMATIVE REFERENCES

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies.

ANSI/UL 121201, Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations

FM 3600, Electrical Equipment for Use in Hazardous (Classified) Locations – General Requirements

1.9 TERMS AND DEFINITIONS

For purposes of this standard, unless stated otherwise, the definitions given in ANSI/UL 121201 apply.

2 General Information

2.1 MARKING INFORMATION

In addition to the marking required for ordinary location equipment and ANSI/UL 121201, the equipment shall be marked in accordance with FM Approvals Standard 3600.

2.2 CERTIFICATION APPLICATION REQUIREMENTS

See FM Approvals Standard 3600.

3 Performance and Construction Requirements

Except where modified by the requirements of this standard, nonincendive electrical equipment shall comply with the applicable requirements of ANSI/UL 121201.

Except where modified by the requirements of this standard, nonincendive electrical equipment shall comply with the applicable requirements for ordinary locations, in accordance with FM Approvals Standard 3600.

4 Operations Requirements

See FM Approvals Standard 3600.

5 Bibliography

ANSI/NFPA 70, National Electrical Code

ANSI/IEEE/ASTM SI-10, American National Standard for Metric Practice