

GP 16-01-02	Area Classification and Related Electrical Design for Combustible Dust	July 2001
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Area Classification and Related Electrical Design for Combustible Dust

GP 16-01-02

Scope

[I] This Global Practice (GP) covers classification of areas where combustible dusts are handled, processed, or stored.

[I] This GP is intended for application to:

- 1) Petroleum refining and chemical facilities involving combustible dusts.
- 2) Coal and similar facilities, except those that are associated with underground mines and those associated with surface mines covered by regulations of the authorities having jurisdiction.

[I] An asterisk (*) indicates that additional information is required. If a job is contracted, the additional information shall be furnished in the Job Specification.

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1. Required References

This Section lists Practices and Standards that are generically referenced and assumed to be a part of this document. Unless otherwise specified herein, use the latest edition.

1.1. NFPA–National Fire Protection Association

NFPA 70	National Electrical Code
NFPA 496	Standard for Purged and Pressurized Enclosures for Electrical Equipment (National Fire Codes, vol. 7)
NFPA 497	Recommended Practice for the Classification of Flammable Liquids, Gases, or Vapors and of Hazardous (Classified) Locations for Electrical Installations in Chemical Process Areas Revised and Redesignated from NFPA 497A-1992 and Part of NFPA 497M-1991 (National Fire Codes, vol. 11)
NFPA 499	Recommended Practice for the Classification of Combustible Dusts and of Hazardous (Classified) Locations for Electrical Installations in Chemical Process Areas

1.2. API–American Petroleum Institute

API RP 500	Recommended Practice for Classification of Locations for Electrical Installations at Petroleum Facilities Classified as Class I, Division 1 and Division 2
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1.3. IEC–International Electrotechnical Commission

IEC 61241-1-1	Electrical Apparatus for Use in the Presence of Combustible Dust - Part 1-1: Electrical Apparatus Protected by Enclosures and Surface Temperature Limitation - Specification for Apparatus
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1.4. NMAB–National Materials Advisory Board

NMAB 353-3-80	Classification of Combustible Dusts in Accordance with the National Electrical Code
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