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AS/NZS 60079.14:2017

Australian/New Zealand Standard™

Explosive atmospheres

Part 14: Design selection, erection and initial inspection (IEC 60079-14:2013 (ED.5.0) MOD)

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This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-014, Equipment for Explosive Atmospheres. It was approved on behalf of the Council of Standards Australia on 16 October 2017 and by the New Zealand Standards Approval Board on 1 November 2017.
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The following are represented on Committee EL-014:

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Australian Institute of Petroleum
Australian Petroleum Production and Exploration Association
Australian Pipelines and Gas Association
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AS/NZS 60079.14:2017

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-014, Equipment for Explosive Atmospheres, to supersede AS/NZS 60079.14:2009, *Explosive atmospheres*, Part 14: *Electrical installations design, selection and erection (IEC 60079-14, Ed.4.0 (2007) MOD)*.

The objective of this Standard is to set out the requirements for the design, selection, erection and initial inspection of electrical installations in, or associated with, explosive atmospheres.

This Standard is an adoption with national modifications; it has been reproduced from IEC 60079-14:2013 (ED.5.0), *Explosive atmospheres*, Part 14: *Electrical installations design, selection and erection*, and Corrigendum 1:2016, which is added at the end of the source text. The IEC Standard has been varied as indicated to take account of Australian/New Zealand conditions as set out below.

This Standard is structured as follows:

(a) Preface.

(b) IEC 60079-14:2013 (ED.5.0) (unedited from the contents page to the final clause of the source document).

(c) IEC 60079-14:2013/COR1:2016, which provides corrected text for clauses 9.3.1, 16.2.2.1 and 16.2.4.3.

(d) Appendix ZZ— Variations to the source document for application in Australian/New Zealand.

(e) Appendices ZA to ZE provide additional requirements and guidance.

The variations listed in Appendix ZZ address issues including the following:

(i) The title is revised as: *Explosive atmospheres*, Part 14: *Design selection, erection and initial inspection*.

(ii) Identification of Australian and Australian/New Zealand Standards that are modified adoptions of IEC normative references and are required to be used in place of the IEC documents.

(iii) Inclusion of requirements for Group I.

(iv) Identification of acceptable standards and acceptable certification for equipment.

(v) Additional requirements for using intrinsic safety with dusts.

(vi) Clarification of the ambient temperature marking and IP rating requirements for equipment.

(vii) Expansion of the detail for the types of wiring systems required.

(viii) Expansion of the requirements for conduit systems and inclusion of specific conduit requirements for Group III.

(ix) Clarification for the selection of cable glands.

(x) Correction to IEC text for several issues.

(xi) Addition of requirements for protection by ventilation Ex'v'.

(xii) Deletion of Annex A, as the subject is covered by AS/NZS 4761.1, *Competencies for working with electrical equipment for hazardous areas (EEHA)* Part 1: *Competency Standards*.

(xiii) Addition of Appendix ZA for options related to specific applications.

(xiv) Addition of Appendix ZB for New Zealand-only requirements for verification of installations.

(xv) Addition of Appendix ZC for explanation of equipment certification systems.

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(xvi) Addition of Appendix ZD for guidance on conformity assessments for equipment without ANZEx or IECEx certification.

(xvii) Addition of Appendix ZE for requirements to adjust EPLs from default values.

As this Standard is reproduced from an International Standard, the following applies:

(A) In the source text 'this part of IEC 60079' should read 'this Australian/New Zealand Standard'.

(B) A full point substitutes for a comma when referring to a decimal marker.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific standards.

The conformity assessment requirements in the variations to Clause 4.4 of the source document were approved by the Standards Australia Standards Development Accreditation Board (SDAC) on 2 February 2017 in order to include national certification options provided by the ANZEx and AUSEx schemes.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the annex or appendix to which they apply. A 'normative' annex or appendix is an integral part of a Standard, whereas an 'informative' annex or appendix is only for information and guidance.

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