AS/NZS 3800:2020

Australian/New Zealand Standard™

Electrical equipment for explosive atmospheres — Repair and overhaul (IEC 60079-19:2015 (ED. 3.1), MOD)

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This Joint Australian/New Zealand Standard™ was prepared by Joint Technical Committee EL-023, Electrical Equipment in Mines and Quarries. It was approved on behalf of the Council of Standards Australia on 24 April 2020 and by the New Zealand Standards Approval Board on 1 April 2020.

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The following are represented on Committee EL-023:

Australian Cablemakers Association
Australian Chamber of Commerce and Industry
Australian Industry Group
Aviation and Marine Engineers Association
Construction Forestry Miners and Energy Union
Department of Mines, Industry Regulation and Safety, WA
Department of Natural Resources, Mines and Energy, Qld
Engineers Australia
Minerals Council of Australia
National Association of Testing Authorities Australia
NSW Department of Planning and Environment
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This Standard was issued in draft form for comment as DR2 AS/NZS 3800:2019.

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Australian/New Zealand Standard™

Electrical equipment for explosive atmospheres — Repair and overhaul (IEC 60079-19:2015 (ED. 3.1), MOD)

Originated in Australia as AS 2290.2—1979.
Originated in New Zealand as NZS 6112:1989.
Third edition AS/NZS 3800:2012.
This edition 2020.

Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-023, Electrical Equipment in Mines and Quarries, to supersede AS/NZS 3800:2012.

The objective of this Standard is to give instructions, principally of a technical nature, on the repair, overhaul, reclamation and modification of equipment designed for use in explosive atmospheres. It is not applicable to maintenance, other than when repair and overhaul cannot be disassociated from maintenance, neither does it give advice on cable entry systems, which may require a renewal when the equipment is re-installed. It prevents overhaul without manufacturer and certificate documentation to types of protection "i", "m" and "s". This Standard is based on the assumption that good engineering practices are adopted throughout.

This Standard is an adoption with national modifications, which has been reproduced from the Final version of IEC 60079-19:2010+AMD1:2015 CSV (ED.3.1), *Explosive atmospheres* ?" Part 19: *Equipment repair, overhaul and reclamation*, and has been varied as indicated to take account of Australian/New Zealand conditions.

The inclusion of national variations in boxed text under the relevant clauses in this modified adoption, was approved by the Standards Australia Production Management Group (PMG) on 6 September 2018, as a one-off exemption to the directives of Clause A.3 in Standardisation Guide 007: Adoption of International Standards.

Additional national variations, requirements and guidance are set out in Appendix ZA to Appendix ZH.

Terms and definitions in this Standard that are additional to those of IEC 60079-19 are numbered beginning from 3.201.

The national variations address issues including the following:

(a) Alignment between AS/NZS 3800 and IEC 60079-19.

(b) Clarification around the general requirements for a repair facility.

(c) Clarification around the requirement for spare parts.

(d) Provide additional details regarding the certification nameplate and markings.

(e) Provide additional details regarding reclamations and metal spraying.

(f) Clarification around the welding techniques permitted.

(g) Amendment of the requirements for threaded holes for fasteners to improve the practicability of the verification methods.

(h) Clarification on actions to take when performing modifications.

(i) Amendment of the requirements for temporary repairs.

(j) Amendment of the requirements for overpressure testing to align with the requirements of the 60079 series of standards.

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

(i) In the source text "this part of the IEC 60079 series" should read "this Australian/New Zealand Standard".

(ii) 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 terms "normative" and "informative" are used in Standards to define the application of the appendices or annexes to which they apply. A "normative" appendix or annex is an integral part of a Standard, whereas an "informative" appendix or annex is only for information and guidance.

CONTENTS