

Australian/New Zealand Standard™

Classification of hazardous areas

**Part 3.7: Examples of area
classification—Landfill gas, sewage
treatment and sewage pumping plants**

AS/NZS 2430.3.7:2004

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee MS-011, Classification of Hazardous Areas. It was approved on behalf of the Council of Standards Australia on 31 March 2004 and on behalf of the Council of Standards New Zealand on 30 April 2004. It was published on 20 May 2004.

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee MS-011, Classification of Hazardous Areas, to supersede AS/NZS 2430.3.7:1997, *Classification of hazardous areas, Part 3.7: Examples of area classification—Landfill gas, sewage treatment and sewage pumping plants*.

The objective of the AS/NZS 2430.3 series of Standards is to provide guidance to the industries and statutory authorities concerned with the classification of hazardous areas.

Changes to the 1997 edition include—

- (a) correction of typographical errors;
- (b) alteration of the symbols for hazardous areas zones (to align with AS/NZS 60079.10); and
- (3) update of referenced documents.

This series of Standards details examples of area classification of commonly occurring situations, based on the principles of AS/NZS 60079.10, *Electrical apparatus for explosive gas atmospheres, Part 10: Classification of hazardous areas*.

The AS/NZS 2430.3 series is as follows:

AS/NZS

2430.3	Classification of hazardous areas—Examples of area classification
2430.3.1	Part 3.1: General
2430.3.2	Part 3.2: Vehicle workshops, vehicle parking, fuel dispensing stations and aircraft hangars
2430.3.3	Part 3.3: Flammable liquids
2430.3.4	Part 3.4: Flammable gases
2430.3.5	Part 3.5: Refineries and major processing plants
2430.3.6	Part 3.6: Laboratories including fume cupboards and flammable medical agents
2430.3.7	Part 3.7: Landfill gas, sewage treatment and sewage pumping plants (this Part)
2430.3.8	Part 3.8: Surface coatings and adhesives
2430.3.9	Part 3.9: Miscellaneous

The AS 2430 series of Standards for classification of hazardous areas used to be formed by AS 2430.1, AS 2430.2 and AS 2430.3.

AS 2430.2 was replaced by AS/NZS 61241.3 in 1999 and AS 2430.1 was replaced by AS/NZS 60079.10 in 2004.

In 1997, AS 2430.3 was split into a Series of nine Parts – 3.1 to 3.9; these initial nine Parts have been superseded by this 2004 edition.

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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

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and sewage pumping plants**

1 SCOPE

This Standard provides examples of area classification for areas associated with gas recovery, sewage treatment plants and sewage pumping plants. It is basically concerned with methane occurrences and can be extended to coal seam gas recovery and biodigestion of farm wastes.

It is part of the AS/NZS 2430.3 series, which recommends the classification of several commonly occurring situations and should be read in conjunction with AS/NZS 2430.3.1.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS/NZS	
2430.3	Classification of hazardous areas—Examples of area classification
2430.3.1	Part 3.1: General
60079	Electrical apparatus for explosive gas atmospheres
60079.10	Part 10: Classification of hazardous areas

3 DEFINITIONS

For the purposes of this Standard the definitions in AS/NZS 60079.10 and AS/NZS 2430.3.1 apply. Adequately and inadequately ventilated areas/locations are detailed in AS/NZS 2430.3.1, Appendix B.

4 GAS RECOVERY**4.1 Scope**

This Clause covers gas blowers, gas treatment and gas engines or turbines fuelled by methane gas recovered from either landfill garbage dumps or coal mines.

4.2 Classification of hazardous areas**4.2.1 Adequately ventilated locations**

Classifications are as described in Clauses 5.2.2(a), (b), (c) and (d).

4.2.2 Inadequately ventilated locations

Classifications are as described in Clauses 5.2.3(a), (b), (c), (d), (e) and (f).