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Australian Standard®

**Electrical equipment for coal
mines—Maintenance and overhaul**

**Part 2: Overhaul and repair of
electrical equipment for hazardous
areas**

This Australian Standard was prepared by Committee EL/23, Electrical Equipment in Coal Mines. It was approved on behalf of the Council of Standards Australia on 9 August 1993 and published on 11 October 1993.

The following interests are represented on Committee EL/23:

Australian Chamber of Commerce and Industry
Australian Coal Association
Australian Electrical and Electronic Manufacturers Association
Department of Mineral Resources, N.S.W.
Department of Minerals and Energy, Qld
Institution of Mining Electrical and Mining Mechanical Engineers
Joint Coal Board
Ministry of Commerce, New Zealand
Regulatory authorities (Electrical)
WorkCover Authority of N.S.W.

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PREFACE

This Standard was prepared by the Standards Australia Committee on Electrical Equipment in Coal Mines, to supersede AS 2290.2—1989, *Electrical equipment for coal mines—Maintenance and overhaul, Part 2: Overhaul of electrical equipment for hazardous areas*. It is intended for the guidance of users and relevant regulatory authorities concerned with the maintenance of electrical equipment in coal mines and is part of a series of Standards on the maintenance and overhaul of electrical equipment used in association with underground mining machines.

This Standard is presented in Sections, each Section dealing with the overhaul requirements appropriate to one of the types of explosion-protection which may be used to achieve electrical safety or with basic requirements and considerations which are fundamental to the safe use of electrical equipment in hazardous areas. As the 1989 edition covered only flameproof enclosures, this edition has been expanded to include three new Sections as follows:

| <i>Section</i> | <i>Title</i> |
|----------------|-------------------------------|
| 3 | Intrinsic Safety (Ex i) |
| 4 | Increased Safety (Ex e) |
| 5 | Pressurized Enclosures (Ex p) |

In addition, requirements for approved repair workshops and competent persons have been revised as well as the introduction of accredited assessing authorities for approval of equipment.

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

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CONTENTS

| | <i>Page</i> |
|--|-------------|
| FOREWORD | 5 |
| SECTION 1 SCOPE AND GENERAL | |
| 1.1 SCOPE | 6 |
| 1.2 REFERENCED DOCUMENTS | 7 |
| 1.3 DEFINITIONS | 7 |
| SECTION 2 FLAMEPROOF ENCLOSURES (Ex d) | |
| 2.1 GENERAL | 10 |
| 2.2 EQUIPMENT OVERHAUL | 11 |
| 2.3 OVERHAUL FREQUENCY | 11 |
| 2.4 APPROVALS | 11 |
| 2.5 CATEGORIES OF WORK | 12 |
| 2.6 STATIC PRESSURE TESTING | 13 |
| 2.7 OVERHAUL AND REPAIR PROCEDURES | 14 |
| SECTION 3 INTRINSIC SAFETY (Ex i) | |
| 3.1 GENERAL | 18 |
| 3.2 EQUIPMENT | 18 |
| 3.3 MODIFICATIONS | 19 |
| 3.4 EQUIPMENT OVERHAUL | 20 |
| 3.5 OVERHAUL FREQUENCY | 20 |
| 3.6 APPROVALS | 20 |
| 3.7 OVERHAUL AND REPAIR | 20 |
| 3.8 OVERHAUL AND REPAIR PROCEDURES | 21 |
| SECTION 4 INCREASED SAFETY (Ex e) | |
| 4.1 GENERAL | 23 |
| 4.2 EQUIPMENT | 23 |
| 4.3 WINDINGS | 24 |
| 4.4 MODIFICATIONS | 25 |
| 4.5 EQUIPMENT OVERHAUL | 25 |
| 4.6 OVERHAUL FREQUENCY | 25 |
| 4.7 APPROVALS | 25 |
| 4.8 CATEGORIES OF WORK | 26 |
| 4.9 OVERHAUL PROCEDURES | 27 |
| SECTION 5 PRESSURIZED ENCLOSURES (Ex p) | |
| 5.1 GENERAL | 31 |
| 5.2 PRESSURIZATION | 31 |
| 5.3 EQUIPMENT OVERHAUL | 31 |
| 5.4 ENCLOSURES | 31 |
| 5.5 TEMPERATURE RATING | 32 |
| 5.6 OVERHAUL FREQUENCY | 32 |
| 5.7 APPROVALS | 32 |

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