

that the plant is safe to use. Any record or report by the competent person must be kept in the plant safety file at the coal operation.

Table 1 – Australian Standards

AS 4242-1994	Earth-moving machinery and ancillary equipment for use in mines - Electrical wiring systems at extra-low voltage,
AS 60204.1-2005	Safety of machinery - Electrical equipment of machines - General requirements
AS 60204.11-2006	Safety of machinery - Electrical equipment of machines - Requirements for HV equipment for voltages above 1000 V a.c. or 1500 V d.c and not exceeding 36 kV
AS/NZS 4871.1:2002	Electrical equipment for coal mines, for use underground - General requirements
AS/NZS 4871.4:2002	Electrical equipment for coal mines, for use underground - Mains powered electrical mobile machines
AS/NZS 4871.5:2002	Electrical equipment for coal mines, for use underground - Battery powered electrical mobile machines

OCCUPATIONAL HEALTH AND SAFETY ACT 2000

Notice under Clause 112A of Occupational Health and Safety Regulation 2001

Requirements for Registration of Explosive-Powered Tool Design

I, ROBERT REGAN, Chief Inspector under the Coal Mine Health and Safety Act 2002, pursuant to Clause 112A of the Occupational Health and Safety Regulation 2001 (the Regulation), by this notice, specify the requirements set out in the Schedule below as the requirements that must be met prior to explosive-powered tools used in underground mines at a coal workplace (referred to in this notice as explosive-powered tools) being registered under Subdivision 1 of Division 3 of Part 5.2 (as modified by Schedule 4A) of the Regulation.

Dated this 29th day of January 2007.

ROBERT REGAN,
Chief Inspector,
NSW Department of Primary Industries
(by delegation)

SCHEDULE

1. Design etc requirements

All explosive-powered tools including the characteristics of the explosive charges and the fastening tool system must be designed, manufactured, constructed and supplied in accordance with the following standards:

AS 1873.1:2003	Powder-actuated (PA) hand-held fastening tools - Selection, operation and maintenance
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AS 1873.2:2003	Powder-actuated (PA) hand-held fastening tools - Design and construction
AS 1873.3:2003	Powder-actuated (PA) hand-held fastening tools - Charges
AS 1873.4:2003	Powder-actuated (PA) hand-held fastening tools - Fasteners

2. Testing requirements

- (1) The explosive-powered tool including its associated range of explosive charges and fasteners as intended for use in the underground mine at a coal operation must be tested to determine if the explosive-powered tool is likely to ignite an explosive atmosphere.
- (2) Such testing must be carried out:
 - (a) by TestSafe Australia or by an alternative testing authority acceptable to the Chief Inspector, and
 - (b) in a manner acceptable to the Chief Inspector in accordance with the following:
 - (i) the explosive tool is to be placed in a small flameproof test chamber which is filled with a mixture of 7.5% by volume ethylene in air.
 - (ii) the tool is to be loaded with the range of relevant strip-mounted cartridges and range of relevant sized fasteners for which registration is sought.
 - (iii) testing is to be performed at maximum and minimum power selections, using short and long fasteners firing into a range of target materials.
 - (iv) where applicable, the tool is to be tested with supplied extension trigger assembly fitted and magazine.
 - (v) when the explosive powered tool is fired in the test chamber, the surrounding ethylene environment must not ignite.

3. Matters for assessment

The following documents must be provided for assessment with the application under clause 107 of the Regulation for registration of plant design:

- (a) a detailed description and specification of the fastening tool system including tool, fasteners, charges, magazines(s) and extension trigger assembly where supplied,
- (b) identification of the explosive-powered tool and its components including number(s) for the tool and fastener(s) and the supplier whose name must be inscribed on a durable plate fixed in a prominent position on the tool,
- (c) detailed drawing(s) to clearly identify all component parts of the tool and system,
- (d) performance and testing certificates for the test stipulated in item 2.0 above and demonstrating the unit has passed all test criteria.
- (e) all documentation that will be supplied to users of the tool as required by clauses 105 and 122 of Regulation, and
- (f) evidence the explosive-powered tool is being manufactured in a recognised quality system.