



Department of Minerals and Energy

**The Manager
Stott Industrial Supplies
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Our reference:

Your reference:

C89/1138

For further
information ring:

Telephone: 231 0922

Extension: **R.A. Petersen**

ATTENTION: Mr L Bragg

date: 24th May 1990

240-4467

APPROVAL OF APPARATUS

Dear Sir,

Apparatus: LASER ALIGNMENT UNIT

Type: LS1

Approval No: MDA Ex ia 2187

I refer to your application for approval of the above apparatus for use in the coal mines of New South Wales as required by the Coal Mines Regulation Act, 1982.

Please find enclosed herewith the relevant approval documentation.

Yours faithfully,

**A A RECZEK
Senior Inspector of Electrical Engineering
FOR CHIEF INSPECTOR OF COAL MINES**

encl.



COAL MINES REGULATION ACT, 1982

-NOTICE OF APPROVAL

APPROVAL No.: MDA Ex ia 2187
FILE No.: C89/1138
DATE : 24th May 1990

It is hereby notified that the Chief Inspector of Coal Mines, pursuant to the provisions of Clause 6 of the Coal Mines Regulation (Approval of Items) Regulation, 1984, and for the purposes of Clause 27 of the Coal Mines Regulation (Electrical-Underground Mines) Regulation, 1984, approves as being in compliance with the requirements of, and for the purposes of the said Clause 27 of any apparatus or cable listed below:

Description: LASER ALIGNMENT UNIT
Identification: Type LS1
Category (Clause 27): EXPLOSION PROTECTED
Sub-category: INTRINSICALLY SAFE

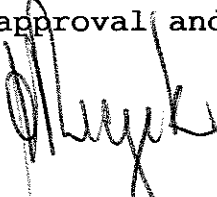
This approval is issued to,

Name: STOTT INDUSTRIAL SUPPLIES

Address: WICKHAM NSW 2293

It is the responsibility of this approval holder to ensure that the above apparatus is manufactured, tested, and supplied in accordance with the requirements of this approval including the schedule.

This apparatus or cable may be used in any part of a coal mine in New South Wales subject to compliance with the requirements of this approval and the requirements of the Coal Mines Regulation Act, 1982.


A A RECZEK
Senior Inspector of Electrical Engineering
FOR CHIEF INSPECTOR OF COAL MINES



APPROVAL No: MDA Exia 2187
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SCHEDULE

Apparatus

An intrinsically safe mining survey laser alignment unit designated type LS1. The laser unit is designed to operate from an intrinsically safe battery that is detachable from the unit. The laser is a class 3A type rated at 2 mW.

Drawings

2-COLL4-4E.DWG original issue dated 3rd May 1990
2-BATT4-4C.DWG original issue dated 3rd May 1990
DIODE5.SCH original issue dated 8th April 1990

Approval Conditions

- (1) The supplier of the electrical apparatus referred to in this approval has the responsibility to ensure that the apparatus conforms with the specification laid down in this schedule and that it has satisfied the requirements specified herein.
- (2) A copy of the approval documents shall be provided with each laser unit supplied to a coal mine in New South Wales.
- (3) Any repair to the laser unit that may affect its explosion protected properties shall be carried only at a workshop registered for the purpose.
- (4) The laser unit shall be operated only from the approved intrinsically safe battery type BIS.
- (5) The battery type BIS shall be fitted with only carbon-zinc or alkaline dry cells.
- (6) The dry cells shall not be changed in a hazardous zone, however the battery unit type BIS may be changed in a hazardous zone.
- (7) The manufacturer shall on his own responsibility carry out such tests and examinations as are necessary to ensure that the laser unit provides satisfactory operation in service.

Marking on Apparatus

- (1) The approval number MDA Exia 2187 and the manufacturers name or mark are to be inscribed in a durable manner in a prominent position on each part of the apparatus.
- (2) Each laser unit shall have all labels and signs fitted as required by Australian Standard 2211.

A handwritten signature in black ink, appearing to read 'A A Reczek', written over a horizontal line.

A A RECZEK
SENIOR INSPECTOR OF ELECTRICAL ENGINEERING
for CHIEF INSPECTOR OF COAL MINES