

Your Ref: LB/KW
Our Ref: 361

Mr M.J. Waters
237 1628

DEPARTMENT
OF RESOURCE
INDUSTRIES



Queensland
Minerals &
Energy Centre
61 Mary Street
Brisbane
QUEENSLAND

G.P.O. Box 194
Brisbane 4001, QLD.
Telephone: (07) 237 1435
Facsimile: (07) 229 7770

7th November, 1990

Dear Sir,

Re: Approval Laser Alignment Unit Type LS1 QMD 90 6887X

I refer to your correspondence of 19th July, 1990 in relation to the above laser. You are advised that the information and drawings provided indicate compliance with the requirements of the Queensland Coal Mining Act 1925-1990 and accordingly the item is hereby approved.

This approval is issued subject to a pre-commissioning inspection to establish that the requirements of the Coal Mining Act have been maintained. Failure to comply with this or any of the conditions detailed on the certificate may render the approval null and void.

Yours faithfully,

R.H. Golding
Principal Electrical Inspector of Coal Mines
for Chief Inspector of Coal Mines

ATTENTION Mr L. Bragg
Managing Director
Stott Industries Supplies
60 Downie Street
WICKHAM NSW 2293

(1 of 3)



ELECTRICAL EQUIPMENT

APPROVAL CERTIFICATE FOR: Laser

MODEL AND SERIES: Type LS1

MANUFACTURED BY: Stott

LIMITATIONS TO OPERATION: May be operated at any location in any underground coal mine in Queensland in accordance with the requirements of the Coal Mining Act and conditions of approval.

APPROVAL NUMBER: QMD 90 6887X

CLASSIFICATION NUMBER: 1 Ex. ia I 150°C

DATE: 7th November, 1990



Queensland
Minerals &
Energy Centre
61 Mary Street
Brisbane
QUEENSLAND
G.P.O. Box 194
Brisbane 4001, QLD.
Telephone: (07) 237 1435
Facsimile: (07) 229 7770

In accordance with the provisions of the Queensland Coal Mining Act 1925-1990 as amended it is hereby notified that on this date the above described equipment, has been approved for use in underground Coal Mines subject to the following conditions.

- (1) The equipment shall be provided with a permanent and durable method of marking to provide the approval identification and enclosure classification complying with the requirements of Australian Standards 2380 Part I - 1985.
- (2) The requirements of the Queensland Coal Mining Act 1925-1990 shall be complied with in regard to the installation, operation, maintenance and overhaul.
- (3) In normal operation the temperature of the external surface of the equipment shall not be permitted to exceed 150°C.
- (4) There shall be no variation in the materials, design, or construction associated with this approval as are indicated by the submitted drawings and other information without the prior consent of the Chief Inspector, and subsequent proof of compliance with the Coal Mining Act 1925-1990.
- (5) Unauthorised alteration or substitution of approved equipment shall render this approval void.
- (6) A copy of these approval documents shall be made available to every user when this equipment is supplied to any underground coal mine in Queensland.
- (7) The laser unit shall be operated only from the intrinsically safe battery type BIS.



- (8) The battery type BIS shall be fitted with only carbon-zinc or alkaline dry cells.
- (9) The dry cells shall not be changed underground, however, the battery unit type BIS may be changed underground.
- (10) Each laser unit shall have all labels and signs fitted as required by Australian Standard 2211.

Equipment

An intrinsically safe mining survey laser alignment with 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 2m W.

Approval 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

Associated Approval and Test Report

- i) NSW Department of Minerals and Energy Approval No. MDA Ex.ia 2187 dated 24th May, 1990.
- ii) Work Cover Authority of NSW Test Report No. 5657 Issued on the 7th May, 1990.
- iii) NATA Approval NS 1914 Issued 22nd May, 1990 .



R.H. Golding
Principal Electrical
Inspector of Coal Mines
for Chief Inspector of Coal Mines