

Approval No: MDA TBS 055716

File:

Date: 30 January 2006

**COAL MINES REGULATION ACT, 1982**

## Notice of Type Approval (Transport Braking System)

IT is hereby notified that the Approved System listed herein has been assessed for compliance with the Coal Mines Regulation Act and appropriate standards or requirements and is hereby APPROVED in accordance with the requirements of the COAL MINES REGULATION ACT 1982. This approval is issued pursuant to the provisions of Clause 70 Part 8 of Approval of Items of the Coal Mines (General) Regulation 1999.

This APPROVAL is issued to: Boart Longyear Pty Ltd, ABN 99 000 401 025  
 Address of Approval Holder: 32-34 Pendlebury Road, Cardiff NSW 2285PO Box 155 Cardiff NSW 2285  
 Description of Item: Type approval for the Transport Braking System (TBS) on a Boart Longyear Pty Ltd, MTV Personnel Transporter (MDA TBS 055716), as per the listed documents.  
 CMRA Approval Clause: 61(1)(b) of the Coal Mines (Underground) Regulation 1999.  
 Specific Approval Category: TBS (Transport Braking System)

This Approval is issued subject to compliance with the requirements of the Occupational Health and Safety Act 2000.

The Authority issuing the Approval has, for the purposes of the Occupational Health and Safety Act, 2000, appended a list of conditions, (including drawings, documents, etc.) that are applicable to this approved system, as identified during test and/or assessment, to assist the Approval Holder and User to comply with the obligations of the Occupational Health and Safety Act, 2000. The onus is on the Supplier and/or User to ensure the Approved System, and any deviation from the list of conditions, in reference to that system is not inferior in any way to the item tested and/or assessed, this includes the supply, installation and continuing use of the Approved System.

The Approval Number shall appear in a conspicuous place and in a legible manner on each approved system, unless specifically excluded.

A copy of the Approval Documentation shall be supplied to each user of the Approved System and shall comprise the number of pages listed in the footer block together with supplementary documentation as listed in the Schedule and in respect to drawings, all drawings as listed in the schedule and those drawings specifically nominated for the purposes of repair and maintenance.

Any maintenance, repair or overhaul of approved systems shall be carried out in accordance with the requirements of the Coal Mines Regulations Act 1982.

G D JERVIS,  
 Senior Inspector of Mechanical Engineering,  
 Under the delegated authority of the Chief Inspector of Coal Mines

**TYPE APPROVAL SCHEDULE****1.0 Detailed Description of Approved Item (s) and Variation (s):**

Type approval for the Transport Braking System (TBS) on a Boart Longyear Pty Ltd, MTV Personnel Transporter (MDA TBS 055716), as per the listed documents.

**1.1 Assessment Criteria**

This braking system was assessed against the following documents:

- a) Handbook for approval assessment of Transport braking systems on free-steered vehicles in underground coal mines, MDG39.

**2.0 Documents Submitted for Approval****2.1 Approval Drawings**

The drawings listed must be supplied and kept with each Transport Braking System approval package.

DRAWING NO:	ISSUE	DATE	TITLE
7-090962-700	C	25/10/05	Brake Circuit MTV

### 2.2 Drawings Submitted for Reference

These drawings are listed for reference only and need not be supplied with each Transport Braking System approval package.

DRAWING NO:	ISSUE	DATE	TITLE
7-160495-700	C	28/10/05	Pneumatic Circuit MTV
7-041773-700	Original	20/09/04	Axle Steer Dana 278 MTV
7-041774-700	Original	20/9/04	Axle Rigid Dana 171 MTV
7-22-283-700	D	31/10/05	General arrangement MTV
7-190435-700	Original	01/08/05	Machine ID plate MTV

### 2.3 Approval Documents:

The document listed must be supplied and kept with each Transport Braking System approval package.

DRAWING NO:	ISSUE	DATE	TITLE
2344	Original	25/10/05	Compliance Statement by designer
S56107-VERIFY	A	29/11/05	Verification Statement by design verifier

### 2.4 Documents Submitted for Reference

These documents are listed for reference only and need not be supplied with each Transport Braking System approval package.

DRAWING NO:	ISSUE	DATE	TITLE
2341	Original	20/10/05	MTV Brake Testing Report/FMEA

## 3.0 Conditions for Supply and Use

### 3.1 General Conditions

- The user of the Approved System shall conduct a site specific Operational Risk Assessment and implement all barriers to risk identified in the Risk Assessment prior to the introduction of the system into a Coal Mine in New South Wales. This Operational Risk Assessment shall be reviewed when operating conditions vary and at periods not exceeding five (5) years.
- The Chief Inspector of Coal Mines has the right to vary or revoke this approval at any time.
- The manufacture is to certify in writing that the particular system supplied is in accordance with the requirements of this approval insofar as those matters assessed for the approval are concerned.
- There shall be no variation in the materials, design or construction of the equipment associated with this approval without prior consent of the Chief Inspector. Unauthorised alteration or substitution of approved equipment shall render this approval void.
- The Owner of this System shall ensure that adequate information is retained at the mine to enable the system to be operated, tested and maintained in the approved condition. This information shall also be made available wherever the system is overhauled or repaired.
- This approval ceases to be valid if the system is not designed, modified, examined, tested, maintained, overhauled and repaired in accordance with the approval conditions, Occupational Health and Safety Act, 2000 Coal Mines Regulation Act, 1982 and Associated Regulations.
- The Mine Managers Defect Management System required by Clause 42 Part 2 Division of the Coal Mines (General) Regulation 1999 should include providing details of any defects to the approval holder.
- The Manager of the mine shall ensure the recommendations of the Approval Holder are complied with as far as they relate to the system, unless an appropriate documented risk assessment process is used to identify alternative means of providing at least equivalent levels of safety and these alternatives are implemented.
- In accordance with the Occupational Health and Safety Act, 2000 it is a requirement that the Mine Management, Equipment Manufacturers, Equipment Owners, Hire / Lease Organisations, Approval Holders and the Designer of the equipment all take considerable responsibility for the safety related aspects of the system. Compliance with safety related recommendations of the Approval Holder should be viewed as an integral part of the responsibility of all concerned.
- A safety audit of the Approved System shall be carried out at intervals not exceeding five (5) years. This safety audit shall be documented and shall include:
  - an assessment for compliance against these approval conditions, and

- (b) an assessment for compliance against the current community standards, applicable to the Approved System at the time of the audit, and implementation of interim control measures to reduce risk to an acceptable level, and
- (c) an assessment of the safety defects identified since the previous audit and a review of the improvements required to minimise these defects.

### 3.2 *Specific Conditions*

1. The Type Approval system identification number, MDA TBS 3249 and the Supplier's name or mark, the brake performance limits, the maximum operating grades, speed and masses shall be inscribed on a durable plate fixed in a prominent position on the equipment.
2. The Mine Manager shall ensure that appropriate systems are in place to reduce the parameters in condition (4) to suit local conditions in accordance with Clause 60 Transport Rules, Division 4 Underground Transport, Coal Mines (Underground) Regulation 1999.
3. Handbook MDG 39 as issued by the Department of Mineral Resources or any relevant Australian Standard should be considered in the development of the mine's standards of engineering practice for the maintenance of the brake system.
4. The operating parameters for idea conditions shall not exceed:

(a) Maximum gross vehicle mass	6,855 kg
(b) Tare mass	5,580 kg
(c) Maximum load	1,275 kg
(d) Maximum un-braked towing load	0 kg
(e) Maximum operating speed	30 km/h
(f) Maximum grade	25% (1:4)

G. D. JERVIS,  
Senior Inspector of Mechanical Engineering  
Under the delegated authority of the Chief Inspector of Coal Mines