



ELECTRICAL APPARATUS
FOR MINES SUSCEPTIBLE TO FIREDAMP

Certificate of Assurance

No 94Y7095

Issued to **MEDC**
of Nottingham, NG16 6JF

THIS IS TO CERTIFY THAT THE SOUNDER TYPE DB5 SYSTEM

comprising the items of apparatus specified in and arranged in accordance with the Schedule and the documents therein referred to, including any variation specified in the Schedule, complies with the requirements of an Intrinsically Safe System as defined in EN50 039 (1980).

This Certificate is granted subject to the general conditions of the Electrical Equipment Certification Service and any additional conditions as may be prescribed.

This Certificate does not imply that the apparatus meets all statutory requirements in any particular industry or circumstance.

File No: EECS 0676/07/010

Report No: 92(C)8616
Dated 17 May 1994

Code: Ex ia I



Sheet 1/3

IH

I M CLEARE
DIRECTOR EECS
17 May 1994



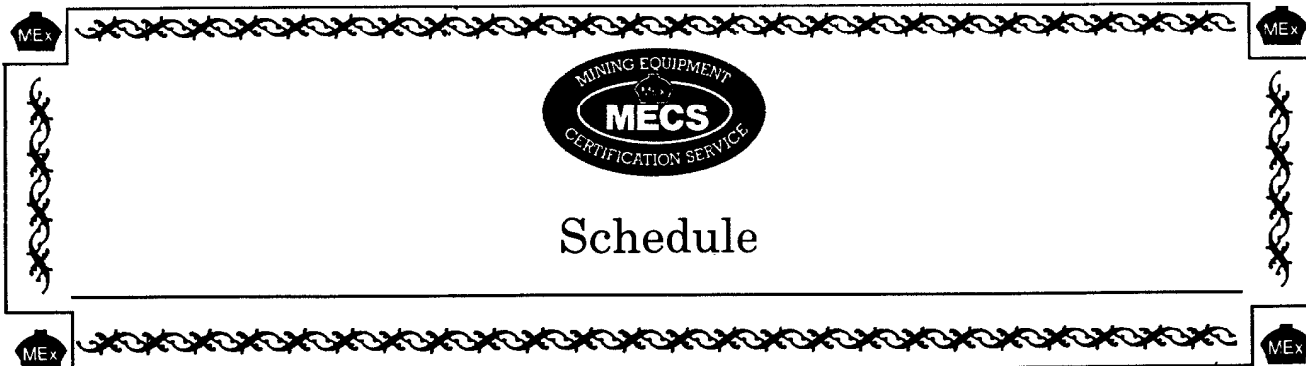
This certificate is issued under NACCB accreditation No. 020

Electrical Equipment Certification Service

Health and Safety Executive

Harpur Hill, Buxton, Derbyshire, SK17 9JN, United Kingdom
Tel: 0298 262111 Fax: 0298 79514 Telex: 668113 RLSD G





Schedule

Certificate of Assurance No 94Y7095

A1. SOUNDER TYPE DB5 SYSTEM

A2. Description of Certified System

A2.1 Apparatus located in non-hazardous area.

Either

A2.1.1 Power Supply Type 12DC to BS 6182: Part 1: 1982 certified to EN50 020.

or

A2.1.2 Power Supply Type 18DC to BS 6182: Part 1: 1982 certified to EN50 020.

or

A2.1.3 Power Supply Type 14/NC/7 to BS 6182: Part 3: 1982 certified to EN50 020.

A2.2 Apparatus located in a hazardous area.

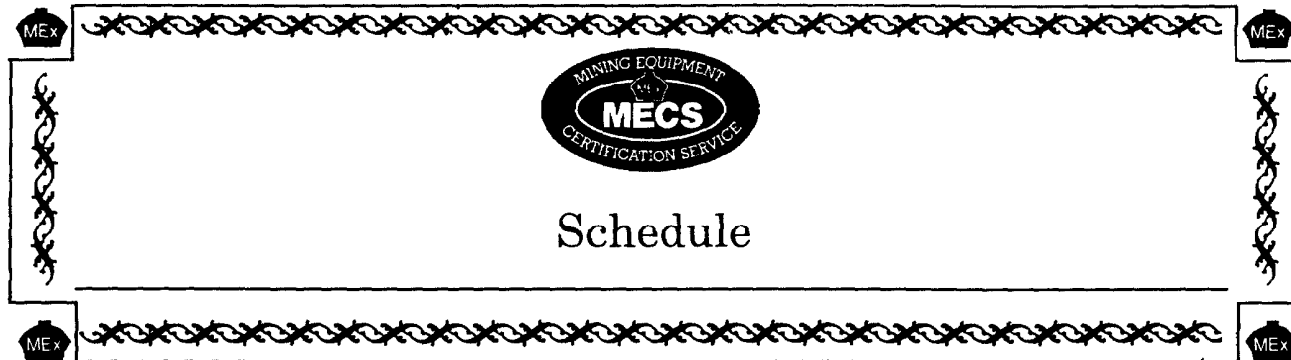
A2.2.1 Any number of sounders Type DB5 MECS Certificate Number 94C7096.

A3. Descriptive Documents

Number	Issue	Date	Title
187-111	A	3.8.91	Installation Diagram DB5 Sounder GP1

A4. Cable Parameters of Interconnecting Cables

The total cable inductance or the cable L/R ratio must not exceed the values specified in the associated power supply certificates.



Certificate of Assurance No 94Y7095

A5. Marking of the Certified System

MEDC
MECS No 94Y7095 SYST

A6. Routine verification and test

A6.1 Installation Requirements

The installation shall comply with national requirements eg. in the UK
BS 6704 (1987).

A7. Special Conditions for Safe Use

None



ELECTRICAL APPARATUS
FOR MINES SUSCEPTIBLE TO FIREDAMP

Certificate of Assurance Variation

THIS IS TO CERTIFY THAT MECS CERTIFICATE NO 94Y7095

Held by MEDC
of Nottingham, NG16 6JF

for the SOUNDER TYPE DB5 SYSTEM

is hereby extended to apply to the System conforming to the specification set out in the Schedules of the said Certificate but having any variations specified in the attached Schedule.

A copy of this Supplementary Certificate shall be attached to the original certificate.

File No: EECS 0676/07/010



Sheet 1/2

CERTIFICATE MECS NO: 94Y7095/1

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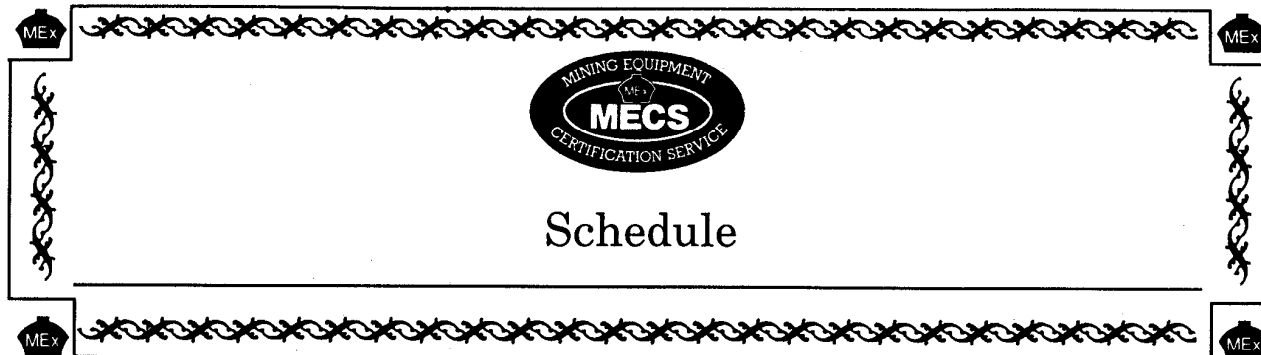
I M CLEARE
DIRECTOR EECS
2 May 1996

This certificate is issued under NACCB accreditation No. 020



Electrical Equipment Certification Service
Health and Safety Executive
Harpur Hill, Buxton, Derbyshire, SK17 9JN, United Kingdom
Tel: 0298 262111 Fax: 0298 795114 Telex: 668113 RLSD G





Schedule

Certificate MECS No. 94Y7095/1

A1. SOUNDER TYPE DB5 SYSTEM

A2. Description of the variation

To permit the following:-

- 1) The deletion of the 18 DC and 14/NC/7 power supplies from Item A2.1.2 and A2.1.3 of the Schedule.
- 2) The Sounder Type DB51M to be used as an alternative to the apparatus listed at Item A2.2 of the Schedule.

A3. Descriptive Documents

Drawing Number	Issue	Date	Title
187-144	A	4/3/96	Installation diagram DB51 Sounder GPI

A4. Variations to specific parameters for the type of protection concerned

None

A5. Variations to marking of the certified system

None

A6. Additional routine verifications and tests

None

A7. Additional special conditions for safe use

None

ELECTRICAL APPARATUS FOR
MINES SUSCEPTIBLE TO FIREDAMP



Certificate of Conformity - Variation

SUPPLEMENTARY CERTIFICATE MECS No. 94Y7095/2

This is to certify that System Certificate number:

MECS No. 94Y7095

held by:

MEDC LIMITED

of

Pinxton, Nottingham, NG16 6JF

for the:

SOUNDER TYPE DB5 SYSTEM

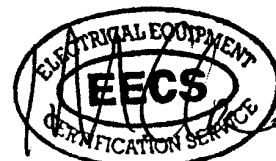
is hereby extended to apply to the system conforming to the specification set out in the Schedule of the said Certificate but having any variations specified in the attached Schedule.

This Supplementary Certificate shall be held with the original Certificate.

File No: EECS 0676/07/010

Sheet 1 of 2

This certificate is granted subject to the general conditions of the Electrical Equipment Certification Service. It does not necessarily indicate that the system may be used in particular industries or circumstances. A system is an assembly of apparatus (all of which are subject to certification and licensing requirements in their own right) and is therefore not listed on an EECS Manufacturing Licence.



I M CLEARE
DIRECTOR
12 July 2001



Electrical Equipment Certification Service
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Schedule

Supplementary Certificate MECS No. 94Y7095/2

A1. SOUNDER TYPE DB5 SYSTEM

A2. Description of variation

To permit the Sounder Type DB51M to Certify MECS01ATEX4260 to be used as an alternative to the apparatus listed in Item A2.2 of the schedule.

A3. Descriptive Documents

<u>Number</u>	<u>Issue</u>	<u>Date</u>	<u>Description</u>
187-144	B	29.06.01	Installation diagram DB51M Sounder GP1

A4. Variations to specific parameters for the type of protection concerned

None

A5. Variations to marking of the certified apparatus

None

A6. Additional routine verifications and tests

None

A7. Additional special conditions for safe use

None