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1. **DIRECTIVE B6: A Guideline for the Monitoring of Self-contained Self-rescuers**
- 2. **DIRECTIVE B9: A Guideline for a Code of Practice for Lamprooms**

There appears to be an industry wide misinterpretation of the above guidelines regarding the allocation of approved safety equipment to relevant persons.

With reference to Section 6 of Directive B9 dealing with allocation of approved equipment, each person who is eligible for "safety" equipment must be allocated their own personal equipment e.g. Self-contained Self-rescuers may not be multi-shifted to serve more than one person. Persons must have their own individual equipment and not to be shared with anyone else.

Paragraph 2 of Section 3 (page 3) of the addendum to Directive B9 and the similarly numbered section in Directive B6 has led to confusion of the intention of providing allocated equipment on an individual personal basis.

Paragraph 2 of Section 3 should therefore read: "*Units must be allocated on a personal basis and may not be shared with anyone else.*" Delete the remainder of the paragraph.

Kindly ensure that all codes of practices are amended accordingly.

*D Bakker*

**D BAKKER**  
**ACT. GOVERNMENT MINING ENGINEER**

1995.06.01



DEPARTMENT OF MINERAL AND ENERGY AFFAIRS

DIRECTIVE NO: B 9

EFFECTIVE DATE: 1995-01-20

**SUBJECT:** A Guideline for a Code of Practice for Lamprooms, Covering Gas Detection Instrumentation, Self-contained Self-rescuers and Portable Lamps.

**SCOPE:** This directive is applicable to all Regional Mining Engineers, and Managers of all mines with underground workings for guidance in the compliance with the provisions contained in the Minerals Act 1991 Section 34 (1) to ensure that a code of practice in respect of lamprooms is effectively applied.

**PURPOSE:** The purpose of this directive is to assist mine management in drawing up a code of practice in accordance with the Minerals Act 34 (1) to ensure that gas detection instrumentation, self-contained self-rescuers and portable lamps, supplied by management, is in proper working order prior to being taken underground.

**DIRECTIVE:** Regions to request that a code of practice, based on the attached addendum as a guide, be drawn up by managers of all mines with underground workings.

**AUTHORITY:** Government Mining Engineer

**ISSUING OFFICER:** Director General

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**GOVERNMENT MINING ENGINEER DIRECTOR GENERAL**

**REPUBLIC OF SOUTH AFRICA**

**DEPARTMENT OF MINERAL AND ENERGY AFFAIRS**

**GUIDELINE FOR A CODE OF PRACTICE FOR LAMPROOMS IN  
TERMS OF SECTION 34 (1) OF THE MINERALS ACT 1991**

**(COVERING GAS DETECTION INSTRUMENTATION,  
SELF-CONTAINED SELF RESCUERS AND PORTABLE LAMPS)**

**(APPLICABLE TO ALL MINES)**

**REVISED EDITION:       DECEMBER 1994**

**REFERENCE:             GME 16/2/9**

**(THESE GUIDELINES ARE SUBJECT TO REVISION WHEN NECESSARY)**

**GUIDELINES FOR A CODE OF PRACTICE  
FOR LAMPROOMS  
(COVERING GAS DETECTION INSTRUMENTATION,  
SELF-CONTAINED SELF-RESCUERS AND PORTABLE LAMPS)**

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## 1. INTRODUCTION

These guidelines have been primarily prepared to assist the Manager in complying with the requirements as stipulated in paragraph 1 (a) (ii) of Section 31 and paragraph 1 of Section 34 of the Minerals Act 1991.

## 2. OBJECTIVE

To ensure that equipment supplied by the Manager is in proper working order prior to going on shift.

## 3. DEFINITIONS

3.1 *"Equipment"* means - gas detection instrumentation, self-contained self-rescuers and portable lamps.

### 3.1 Gas Detection Instrumentation

3.2.1 *"Flammable gas measuring instruments It'd flammable gas warning devices"* means only those instruments and devices which comply with the South African Bureau of Standards specification SABS 1515.

3.2.2 *"Carbon monoxide warning devices"* means only Hose devices which are battery operated portable personal emits, capable of continuously sensing and able to give either a clearly audible or a clearly visible warning or both a clearly audible and a clearly visible warning should they be used in an atmosphere containing 100 ppm or more of CO and certified in terms of Regulation 21.17.2

3.3 *"Self-contained Self-rescuers"* means devices approved by the Director General for the purpose of protecting wearers thereof from exposure to irrespirable air.

3.4 *"Portable lamps"* means lamps which are in compliance with the SABS 1438 specification and which are of a design and construction approved by the Director General.

3.5 *"High risk area"* means -

- (a) any underground mine with trackless mechanised mining sections and areas ventilated mainly by the return air from such sections, including those mines or parts of a mine so designated and specified by the Director General, and
- (b) in such other working places where the rapid development of an oxygen deficiency or a concentration of noxious gases cannot reasonably be excluded by preventative measures.

3.6 *"Lampman's Certification"* means - a certificate issued by the Regional Director to

3.7 *"OEM"* means original equipment manufacturer.

3:8

**"Accredited Authority"** means - A person and or an organisation which has The equipment and expertise meeting the requirements of the Original Equipment Manufacturer for repairs, service and maintenance of their specific approved equipment and has been issued with the necessary certificate of approval.

#### 4. LAMPMAN

4.1

##### **Appointment**

The Manager shall appoint a certificated Lampman (and his relief) and clearly define all his duties and responsibilities in writing.

4.2

##### **Experience**

Electrical or electronic background and or appropriate experience.

4.3

##### **Training**

(i) The Manager, in consultation with the OEM of He equipment in use on the mine, shall draw up a mine specific training programme.

(ii) Refresher courses to be conducted annually and retraining done in the event of any change in specification of any equipment.

#### 5. CERTIFICATION OF APPROVED EQUIPMENT IN LAMPROOM

5.1.

##### **GAS DETECTION INSTRUMENTATION**

5.1.1

##### **Flammable Gas**

Copies of the SABS 1515 test certificates and He list showing the relevant serial numbers of all approved instruments and devices in use shall be displayed in the lamproom.

5.1.2

##### **Carbon Monoxide**

Copies of the SABS test report for explosion protection for all battery powered portable personal warning devices in use shall be displayed in the lamproom.

5.2

##### **SELF-CONTAINED SELF-RESCUERS (SCSRs)**

Copies of Director General approvals of all makes of SCSFs in use on the mine shall be displayed in the lamproom.

5.3

##### **PORTABLE LAMPS**

Copies of all Director General approvals and schedules giving full details and specifications of all approved portable lamps in use, on file mine shall be displayed in the lamproom.

#### 6. ALLOCATION OF APPROVED EQUIPMENT

##### 6.1 GAS DETECTION INSTRUMENT

8.3.1

### **Gas Detection Instrumentation and Portable Lamps**

- (i) Separate rooms for gas detection instrumentation and portable lamps must be dedicated for maintenance purposes.
- (ii) Portable lamp repairs may be effected by the certified Lampman but in the case of gas detection instrumentation only the OEM or their accredited authority are repairs permissible.

8.3.2

### **Self-contained Self-rescuers**

Repairs and/or refurbishment shall be effected by the OEM or by their accredited authority.

8.4

### **Battery Charging Programme (Gas Detection Instrumentation and Portable Lamps)**

Batteries are to be charged in accordance with a procedure drawn up by the manager in consultation with the OEM.

8.5

### **Records**

- (i) A record shall be kept for a period of twelve (12) months in the lamproom of specific persons to whom equipment are issued in order that the user can at any time be identified from the records.
- (ii) With regard to SCSRs a comprehensive record system must be implemented in accordance with an approved code of practice. (Refer Addendum I)
- (iii) In the case of gas detection instrumentation records of individual instruments and devices showing a history of testing, calibration and maintenance, shall be kept.

9.

### **REPORTING**

- (i) The Lampman shall on a monthly basis report in writing to the Manager on all matters pertaining to the control of equipment.
- (ii) copies of these reports shall be kept for a period of one year.

10.

### **COMPLIANCE TESTS**

Tests and checks of equipment shall be made by the designated user in accordance with a procedure drawn up by the manager. A means of acknowledgement by the designated user shall be instituted to verify that such tests and checks have been conducted prior to going on shift.