Government Gazette
Staatskoerant

REPUBLIC OF SOUTH AFRICA
REPUBLIEK VAN SUID-AFRIKA

Regulation Gazette **No. 8369** *Regulasiekoerant*

Vol. 486 **Pretoria, 15 December / Desember 2005** **No. 28333**

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DEPARTMENT OF MINERALS AND ENERGY

No. R. 1224 **15 December 2005**

MINE HEALTH AND SAFETY ACT, 1996 (ACT No. 29 OF1996)

REGULATIONS RELATING TO OUTLETS, LADDERWAYS AND TRAVELING WAYS

I LB Hendricks, Minister of Minerals and Energy, in terms of section 98 read with Schedule 4 of the Mine Health and Safety Act, 1996 (Act No. 29 of 1996), after consultation with the Council, hereby make the regulations in the Schedule.

LB Hendricks
Minister of Minerals and Energy

SCHEDULE

CHAPTER 13

Outlets

13.1(1) The employer must prevent employees from being trapped in any underground excavation by providing whenever practicable, from every underground working place, two exits, each of which is connected to separate means of egress to the surface.

13.1(2) Where it is not practicable to provide two exists as contemplated in regulation 13.1(1) above, the employer must implement other reasonably practicable measures, determined by the mine's risk assessment, to prevent employees from being trapped in any underground excavation.

13.1(3) Except in the case of emergency no person may enter or leave the underground workings of a mine except by means of ingress or egress especially provided or set apart for that purpose by the employer unless such person is authorised to do so by the employer.

Repeal

13.1(4) The following regulations promulgated under the Minerals Act, 1991(Act No. 50 of 1991) in force in terms of Schedule 4 of the Act, are hereby repealed-

6.1.1
6.1.2
6.1.3
6.2.1
6.2.2
6.2.3
6.2.4.
6.2.5
6.3.1
6.3.2
6.3.2.1
6.3.2.6
6.3.2.7
6.3.2.8
6.3.2.12
6.3.3.1
6.3.3.2
6.3.3.3
6.3.3.4
6.3.3.5
6.3.3.6
6.9
6.11

No. R. 1225 **15 December 2005**

MINE HEALTH AND SAFETY ACT, 1996
(ACT No. 29 OF1996)

REGULATIONS RELATING TO MACHINERY EQUIPMENT

I LB Hendricks, Minister of Minerals and Energy, in terms of section 98 of the Mine Health and Safety Act, 1996 (Act No. 29 of 1996), after consultation with the Council hereby make the regulations in the Schedule.

LB Hendricks
Minister of Minerals and Energy

CHAPTER 8

MACHINERY AND EQUIPMENT

Scraper Winch and Mono-Rope Installation

8.4(1) The employer, at every mine where scraper-winches or mono-rope winches are operated, must take reasonable measures to prevent persons from being injured as a result of-

(a) any person coming into contact with any moving part of a scraper winch or mono-rope winch installation or any equipment attached thereto; and

(b) the scraper winch or mono-rope winch installation being unsafe.

8.4(2) The measures to be taken by the employer in terms of regulation 8.4(1) must include measures to ensure that-

(a) scraper-winches and mono-rope winches are only operated by competent persons authorized by the employer to do so;

(b) the scraper winch or mono-rope winch is not operated until it is examined and declared safe to operate by a person authorised to do so by the employer;

(c) means are provided to forewarn persons of the intention to commence operating any scraper-winch or mono-rope winch;

(d) means are provided for persons to signal to the operator, from any access point to the installation, to shut down the operation of the scraper-winch or mono-rope winch installation;

(e) scraper winch and mono-rope winch ropes, scraper attachments and rope splicing are regularly inspected;

(f) the scraper winch ropes are always underlay;

(g) a written procedure is prepared and implemented for the installation of the winch system, covering at least-

(i) the requirements of scraper and mono-winch foundations and installations;

(ii) the crossover and anti-fouling arrangements of ropes from two or more winches;

(iii) illumination of the moving parts of any winch so that they can be identified by persons;

(iv) appropriate sheave and return pulley anchor and rigging arrangements, including the use of safety slings;

(v) measures to ensure that winch ropes are used within the design capacity;

(vi) winch starter box location to ensure ease of operation by the operator; and

(vii) the moving and transport of winches from one location to another.

Lifting Equipment Regulations

Definitions

For purposes of regulation 8.5, unless the context otherwise indicates -

"Lifting equipment," means any equipment or machine or arrangement of equipment or machines intended or used for the lifting, lowering, suspension, or moving in suspension of any person or load.

"Lifting tackle," means any attachment, including anchoring points, used to secure lifting equipment or a load to lifting equipment.

8.5(1) The employer must take reasonable measures to ensure that no person is injured due to the failure of any lifting equipment or lifting tackle as a result of-

(a) incorrect design for the intended application;
(b) incorrect installation; or
(c) insufficient maintenance.

8.5(2) The employer must take reasonable measures to ensure that the installation, use (including the transport of persons), maintenance, inspection, testing and keeping of records of lifting equipment and lifting tackle are done in accordance with a written operating procedure prepared and implemented for that purpose.

8.5(3) The employer must take reasonably practicable measures to ensure that –

(a) only lifting equipment and lifting tackle with a minimum factor of safety of four (4) is used;
(b) lifting equipment and lifting tackle are not used beyond their design capacity; and
(c) the safe working load of any lifting equipment and lifting tackle is conspicuously and clearly marked or indicated thereon.

8.5(4) Notwithstanding regulation 8.5(2), the employer must take reasonably practicable measures to ensure that the following lifting tackle has a minimum factor of safety of-

(a) ten (10) for natural fiber ropes;
(b) six (6) for steel wire ropes, man-made fiber ropes and textile webbing; and
(c) four (4) for high tensile steel chains.

8.5(5) The employer must take reasonable measures to ensure that only persons authorised in writing by the employer to do so, operate lifting equipment and lifting tackle.

8.5(6) The employer must take reasonably practicable measures to ensure that the lifting equipment used at the mine is designated and manufactured in accordance with an appropriate standard.

Repeal

8.5. (7) The following regulations, made under the Minerals Act, 1991(Act No. 50 of 1991) in force in terms of Schedule 4 of the Act are hereby repealed-

Chapter 16	Chapter 19
16.98	19.1
16.98.1	19.2.1
16.98.2	19.2.2
16.98.3	19.3.1
16.98.4	19.3.2
16.98.5	19.3.3
16.99	19.3.4
16.100	19.4
16.101	19.5
16.102	19.6
16.103	
16.103.1	
16.103.2	
16.104	

No. R. 1226 **15 December 2005**

GENERAL EXPLANATORY NOTES

[ ] Words in bold type, in square brackets indicate omissions from existing enactments

_____ Words underlined with solid line insertions in existing enactments

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MINE HEALTH AND SAFETY ACT, 1996 (ACT No. 29 OF1996)

AMENDMENT TO THE REGULATIONS IN RESPECT OF OCCUPATIONAL HYGIENE

Under section 98 read with Schedule 4 of the Mine Health and Safety Act, 1996 (Act No. 29 of 1996), I LB Hendricks Minister of Minerals and Energy, after consultation with the Council, hereby amend the regulations published under Government Notice No. R 904 appearing in Government Gazette 23583 of 2 July 2002, as set out in the Schedule

LB HENDRICKS (MP)
MINISTER OF MINERALS AND ENERGY

SCHEDULE

Definitions

1. In these regulations "the Regulations" means the regulations published under Government Notice No. R 904 in Government Gazette No 23583 of 2 July 2002.

Amendment of Regulation 9.2(7)

2. The regulations are hereby amended by the substitution for regulation 9.2(7) of the following regulation

Report to Regional Principal Inspector

9.2 (7) The *employer* must **[annually]** submit to the regional ***principal inspector of mines***, on forms 21.9(2)(a); 21.9(2)(b); 21.9(2)(c) and 21.9(2)(d), 21.9.2 (e) and 21.9.2(f) *prescribed* in chapter 21, and within **[30]** 60 days from the end of the relevant **[annual]** reporting period as indicated on each form, reports which contain **[quarterly]** information on the airborne pollutant, **[heat stress, cold stress]** thermal stress and noise aspects of the system of *occupational hygiene* measurements, established and maintained in terms of *regulation* 9.2(2). **[, covering the immediately preceding 12 months]**

Substitution of forms under chapter 21

3. The forms required in terms of regulation 9.2(7) prescribed in chapter 21 of the regulations are herby amended-

a. by the substitution for forms 21.9(2)(a)-(d) of the of the following forms; and

b. by the insertion of forms 21.9(2)9(e) and(f) after forms 21.9(2)(a)-(d).

CHAPTER 21

Airborne Pollutants - Particulates Personal Exposure Report Form 21.9(2)(a)

In terms of regulation 9.2. (7)

General:

1. Reporting Period as per table below.

HEG Category Classification Band	Airborne Particulates
A	Quarterly reports ending March, June, Sept and December
B	Bi-annual reports ending June and December
C	Annual reports ending December

Information in shaded area not to be included in statutory report submitted to DME; see examples in SAMOHP Code Book

2. The monitoring frequency and number of samples to be used are specified in the SAMOHP
3. Complete one form for each homogeneous exposure group
4. Codes to be used in this form are specified in the SAMOHP
5. Attach Operation Details – Report Form 21.9(2)(f) when submitting as required by regulation 9.2(7)
6. The results of samples taken from randomly selected occupations within a HEG must be assigned to that specific occupation code, where occupations within a HEG were not sampled the HEG mean pollutant concentration must be allocated to those occupations.
7. All sample concentrations must be 8 hour equivalents

Main Commodity Code:	
Sample Area	
Activity Area Code:	
HEG Classification Band (90th Percentile value of pollutant concentration):	

DME Mine Code:	
Sub Mine Code:	
Reporting Period:	
Start	End

HEG		Pollutant Code	Sample Concentration per Occupation (TWA-8hr)	Analysis %	Mean Pollutant Concentration Dose Allocated to Medical Record (Tick appropriate box)	90th Percentile HEG Classification	Range of Pollutant Concentration		OEL (Tick appropriate box)	Pollutant Index	AQI
Occupations Codes in HEG	Number of Persons per Occupation		mg/m³		mg/m³ / f/ml		Min	Max	mg/m³ / f/ml		
			(A)	(B)	(C=Avg A*B%)				(D)	(E=C/D)	(F=SUM E)
Total											

* Note: Mean Pollutant Concentration needs to be calculated at 95% Confidence Interval (see explanation in SAMOHP Code Book)

Airborne Pollutants - Gases and Vapours Personal Exposure Report Form 21.9(2)(b)

In terms of regulation 9.2. (7)

General:

1. Reporting Period as per table below.

HEG Category Classification Band	Gases and Vapours
A	Quarterly reports ending March, June, Sept and December
B	Annual reports ending December

2. The monitoring frequency and number of samples to be used are specified in the SAMOHP
3. Complete one form for each homogeneous exposure group
4. Codes to be used in this form are specified in the SAMOHP
5. Attach Operation Details – Report Form 21.9(2)(f) at the end of each reporting cycle
6. The results of samples taken from randomly selected occupations within a HEG must be assigned to that specific occupation code, where occupations within a HEG were not sampled the HEG mean pollutant concentration must be allocated to those occupations.

Information in shaded area not to be included in statutory report submitted to DME; see examples in SAMOHP Code Book

Main Commodity Code:	
Sample Area	
Activity Area Code:	
HEG Classification Band: (90th Percentile value of pollutant concentration):	

DME Mine Code:	
Sub Mine Code:	
Reporting Period:	
Start	End

HEG		Pollutant Code	Sample Concentration Per Occupation (TWA-8hr) (Tick appropriate box) mg/m³ / ppm	Mean Pollutant Concentration Dose Allocated to Medical Record TWA 8 Hr (A)	90th Percentile HEG Classification	Range of Pollutant Concentration		OEL (Tick appropriate box) mg/m³ / ppm (B)	Pollutant Index (C=A/B)	Air Quality Index (D=SUM C)
Occupations Codes in HEG	Number of Persons per Occupation					Min	Max			
Total										

* Note: Mean Pollutant Concentration needs to be calculated at 95% Confidence Interval (see explanation in SAMOHP Code Book)

Heat Stress Exposure Report Form 21.9(2)(c)

In terms of regulation 9.2. (7)

General:
1. Risk assessment will determine the warmest quarter, statutory reports to be submitted to DME within 60 days of the completion of the identified quarter
2. Complete one form for each homogeneous exposure group
3. Codes to be used in this form are specified in the SAMOHP
4. Attach Operation Details – Report Form 21.9(2)(f) at the end of each reporting cycle
5. The results of samples taken from randomly selected occupations within a HEG must be assigned to that specific occupation code

Information in shaded area not to be included in statutory report submitted to DME; see examples in SAMOHP Code Book

Main Commodity Code:	
Measurement Area:	
Activity Area Code:	
Thermal Classification (based on most significant parameter)	

DME Mine Code	
Sub Mine Code:	
Reporting Period:	
Start	End

Thermal Environment		Parameter (Tick appropriate box)		Measurements (n)	Mean	Range	
Occupations Codes in HEG	Number of Persons per Occupation					Min	Max
		Wet bulb (WB) °C					
		Dry bulb (DB) °C					
		Globe (GT) °C					
Total							

Cold Stress Exposure Report Form 21.9(2)(d)

In terms of regulation 9.2. (7)

General:
1. Risk assessment will determine the coldest quarter, statutory reports to be submitted to DME within 60 days of the completion of the identified quarter
2. Complete one form for each homogeneous exposure group
3. Codes to be used in this form are specified in the SAMOHP
4. Attach Operation Details – Report Form 21.9(2)(f) at the end of each reporting cycle
5. The results of samples taken from randomly selected occupations within a HEG must be assigned to that specific occupation code

Information in shaded area not to be included in statutory report submitted to DME; see examples in SAMOHP Code Book

Main Commodity Code:	
Measurement Area:	
Activity Area Code:	
Thermal Classification (based on most significant parameter)	

DME Mine Code	
Sub Mine Code:	
Reporting Period:	
Start	End

Thermal Environment		Parameter (Tick appropriate box)		Measurements (n)	Mean	Range	
Occupations Codes in HEG	Number of Persons per Occupation					Min	Max
		Dry bulb (DB) °C					
		Air velocity m/s					
		Equivalent chill temperature °C					
Total							

Personal Noise Exposure - Report Form 21.9(2)(e)

In terms of regulation 9.2. (7)

General:

1. Reporting Period as per table below

HEG Category Classification Band	Noise
A	Annual reports ending December
B	
C	Two yearly reports ending December

Information in shaded area not to be included in statutory report submitted to DME; see examples in SAMOHP Code Book

2. Complete one form for each homogeneous exposure group
3. Codes to be used in this form are specified in the SAMOHP
4. Attach Operation Details – Report Form 21.9(2)(f) at the end of each reporting cycle
5. The results of samples taken from randomly selected occupations within a HEG must be assigned to that specific occupation code

Main Commodity Code:	
Sample Area:	
Activity Area Code:	
HEG Classification Band:	

DME Mine Code:	
Sub Mine Code:	
Reporting Period:	
Start	End

HEG		
Occupations Codes in Noise HEG	Number of Persons per Occupation	* Logarithmic Average Sound Pressure Level ($L_{Aeq, 8h}$) per Occupation
Total		

* Note: Logarithmic Average Sound Pressure Level (LAeq, 8h) must be calculated as per formula on Pg 74 Para 3.6.2.2 of the Guideline for the Compilation of a Mandatory Code of Practice for an Occupational Health Programme for Noise: Ref. No. DME 16/3/2/4-A3

Operations Details - Report Form 21.9(2)(f)

Report on exposure levels for sampling period _____

	Pages / Report
Airborne Pollutants	
Thermal Stress	
Noise	

(Tick appropriate box)

DME Mine Code: DME Sub Mine Code:

Mine:

Address: Control Group:

Commodities

Area Code:

Manager: Production Process:

Telephone:

Telefax: E-Mail:

Section 12.1 Engaged Occupational Hygienist

Name	Part time	Full time	MEC Certificate No: or Intermediate Certificate and SAIOH Registration No

Telephone: Code Cell Phone

Telefax: Code E-Mail:

Directorate

Summary

Airborne Particulates		No: of persons per category			Gases & Vapours		No: of persons per category		Noise	No: of persons per category			Thermal Stress	No: of persons per category			
Substance	Code	A	B	C	Substance	Code	A	B		A	B	C		A	B	C	D
													Heat Stress				
													Cold Stress				

Labour	Mine	Contractors	Total Labour

Engaged Occupational Hygienist _____ Date _____ Manager _____ Date _____

Printed by and obtainable from the Government Printer, Bosman Street, Private Bag X85, Pretoria, 0001
Publications: Tel: (012) 334-4508, 334-4509, 334-4510
Advertisements: Tel: (012) 334-4673, 334-4674, 334-4504
Subscriptions: Tel: (012) 334-4735, 334-4736, 334-4737
Cape Town Branch: Tel: (021) 465-7531

Gedruk deur en verkrygbaar by die Staatsdrukker, Bosmanstraat, Privaatsak X85, Pretoria, 0001
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