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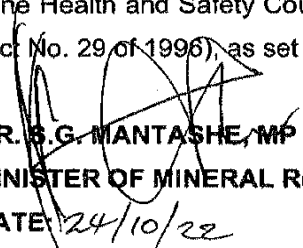
DEPARTMENT OF MINERAL RESOURCES AND ENERGY

NO. 2909

21 December 2022

MINE HEALTH AND SAFETY ACT, 1996 (ACT NO 29 OF 1996)**REGULATIONS RELATING TO FORMS**

I **SAMSON GWEDE MANTASHE**, the Minister of Mineral Resources and Energy, hereby amend chapter 21 reporting forms in terms of regulation 9.2(7) of the regulations after consultation with the Mine Health and Safety Council, in terms of section 98 (1) (x) of the Mine Health and Safety Act, 1996 (Act No. 29 of 1996), as set out in the in the schedule below.


MR. S.G. MANTASHE, MP
MINISTER OF MINERAL RESOURCES AND ENERGY
DATE 24/10/22

SCHEDULE**REGULATIONS AMENDMENTS****CHAPTER 21****FORMS****Amendment of Chapter 21 of the regulations**

Chapter 21 of the regulations is hereby amended by: -

1. The substitution of form 21.9 (2) (a) with the following forms:
i. Airborne Pollutants -Particulate Personal Quarterly Report Form 21.9(2)(a)(i) in terms of regulation 9.2.(7) - Single Pollutant HEG Category A and C

MAIN COMMODITY CODE:		DMR MINE CODE:	
SAMPLE AREA:		SUB MINE CODE:	
ACTIVITY AREA CODE:		REPORTING PERIOD:	
HEG RECLASSIFICATION BAND: (based on previous annual 90 th percentile results)		Name and SANAS accreditation number of analytical laboratory used:	
NUMBER OF SAMPLES PLANNED FOR THE CURRENT SAMPLING CYCLE:		ANNUAL RESULTS: ANNUAL 90 th PERCENTILE BASED ON THE 4 QUARTERS MEASUREMENTS RESULTS	
Number of samples taken		Q1	Q2
Quarterly HEG classification based on 90 th percentile measurement results		Q3	Q4
Sample Concentration per Occupation (TWA - 8hr) mg/m ³ (Sample Concentration = Sample mass (mg)/Sample Volume (m ³) 1. If Sampling time = exposure duration TWA 8h= Sampling Concentration * actual exposure duration 480 (min)		Pollutant analytical mass (mg)	
Pollutant code		Pollutant Concentration per Occupation (TWA - 8hr) mg/m ³ (Pollutant Concentration = Pollutant mass (mg)/Sample Volume (m ³) 1. If Sampling time = exposure duration Pollutant TWA 8h= Pollutant Concentration * actual exposure duration 480 (min)	
Occupations codes in HEG		Mean pollutants concentration dose allocated to medical records (Tick appropriate block) mg/m ³ f/ml ppm	
Number of persons per occupation		90 th percentile HEG classification	
Occupations codes in HEG		OEL (Tick appropriate block) mg/m ³ f/ml ppm	
TOTAL		(A)	(B)
COMMENTS ON:		(C)	(D)
Reasons for over-exposures		(E)	(F)
Corrective measures that will be implemented to prevent / mitigate over-exposures			

ii. Airborne Pollutants -Particulate Personal Quarterly Report Form 21.9(2)(a)(ii) in terms of regulation 9.2.(7) - Single Pollutant HEG Category B

MAIN COMMODITY CODE:		DMR MINE CODE:	
SAMPLE AREA:		SUB MINE CODE:	
ACTIVITY AREA CODE:		REPORTING PERIOD:	
HEG RECLASSIFICATION BAND: (based on previous annual 90 th percentile results)		Name and SANAS accreditation number of analytical laboratory used:	
NUMBER OF SAMPLES PLANNED FOR THE CURRENT SAMPLING CYCLE:		ANNUAL RESULTS (ANNUAL 90 TH PERCENTILE BASED ON THE 4 QUARTERS MEASUREMENTS RESULTS)	
Number of samples taken		Q1	Q2
Quarterly HEG classification based on 90 th percentile measurement results		BI - ANNUAL RESULTS (Q2- PERCENTILE RESULTS OF Q1 AND Q2)	
HEG		Q3	Q4
Occupations codes in HEG	Number of persons per occupation	Pollutant Concentration per Occupation (TWA - 8hr) mg/m ³ (Sample Concentration = Sample mass (mg)/Sample Volume (m ³) 1. If Sampling time = exposure duration or < exposure duration TWA 8h= Sampling Concentration * actual exposure duration 480 (min) 2. If Sampling time > exposure duration TWA 8h= Sampling Concentration* actual sampling time 480 (min)	
Pollutant code		Pollutant analytical mass (mg)	
		(A)	
		(B)	
		(C)	
		(D)	
		(E)	
		(F)	
TOTAL COMMENTS ON:			
Reasons for over-exposures			
Corrective measures that will be implemented to prevent / mitigate over-exposures			

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MAIN COMMODITY CODE:		DMR MINE CODE:	
SAMPLE AREA:		SUB MINE CODE:	
ACTIVITY AREA CODE:		REPORTING PERIOD:	
HEG RECLASSIFICATION BAND: (based on previous annual 90 th percentile results)		Name and SANAS accreditation number of analytical laboratory used:	
Number of samples planned for the current sampling cycle:	Q1	Q2	Q3
Number of samples taken	Q4	ANNUAL RESULTS (ANNUAL 90TH PERCENTILE BASED ON THE 4 QUARTERS MEASUREMENTS RESULTS)	
Quarterly HEG classification based on 90th percentile measurement results or AQI (HEG classification must be based on 90th percentile of each pollutant or AQI, whichever is the greatest)	Sample Concentration per Occupation (TWA - 8hr) mg/m ³ Sample mass (mg)/Sample Volume (m ³) 1. If Sampling time = exposure duration or < exposure duration TWA 8h= Sampling Concentration * actual exposure duration 480 (min)	Pollutant analytical mass (mg)	Pollutant Concentration per Occupation (TWA - 8hr) mg/m ³ [Pollutant Concentration = Pollutant mass (mg)/Sample Volume (m ³) 1. If Sampling time = exposure duration or < exposure duration Pollutant TWA 8h= Pollutant Concentration * actual exposure duration 480 (min) 2. If Sampling time > exposure duration Pollutant TWA 8h= Pollutant Concentration* actual sampling time 480 (min)
HEG	Pollutant code	Mean pollutants concentration dose allocated to medical records (Tick appropriate block) mg/m ³ f/ml ppm	OEL (Tick appropriate block) mg/m ³ f/ml ppm
Occupation codes in HEG	Number of persons per occupation	90 th percentile HEG classification	Pollutant index
Occupation codes in HEG	Number of persons per occupation	90 th percentile HEG classification	AQI
TOTAL	(A)	(B)	(C) (D) (E) (F)
COMMENTS ON:			
Reasons for over-exposures			
Corrective measures that will be implemented to prevent / mitigate over-exposures			

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MAIN COMMODITY CODE:				DMR MINE CODE:			
SAMPLE AREA:				SUB MINE CODE:			
ACTIVITY AREA CODE:				REPORTING PERIOD:			
HEG RECLASSIFICATION BAND: (based on previous annual 90 th percentile results) NUMBER OF SAMPLES PLANNED FOR THE CURRENT SAMPLING CYCLE:				Name and SANAS accreditation number of analytical laboratory used:			
Number of samples taken				ANNUAL RESULTS (ANNUAL 90 TH PERCENTILE BASED ON THE 4 QUARTERS MEASUREMENTS RESULTS)			
Quarterly HEG classification based on 90 th percentile measurement results or AQI (HEG classification must be based on 90 th percentile of each pollutant or AQI, whichever is the greatest)				BI - ANNUAL RESULTS (Q2- PERCENTILE RESULTS OF Q1 AND Q2)			
Q1				Q2			
Q3				Q4			
Sample Concentration per Occupation (TWA - 8hr) mg/m ³ (Sample Concentration = Sample mass (mg)/Sample Volume (m ³) 1. If Sampling time = exposure duration or < exposure duration TWA 8h= Sampling Concentration * actual exposure duration 480 (min)				Pollutant analytical mass (mg)			
2. If Sampling time > exposure duration TWA 8h= Sampling Concentration * actual sampling time 480(min)				Pollutant Concentration per Occupation (TWA - 8hr) mg/m ³ [Pollutant Concentration = Pollutant mass (mg)/Sample Volume (m ³) 1. If Sampling time = exposure duration or < exposure duration Pollutant TWA 8h= Pollutant Concentration * actual exposure duration 480 (min) 2. If Sampling time > exposure duration Pollutant TWA 8h= Pollutant Concentration * actual sampling time 480 (min)			
Mean pollutants concentration dose allocated to medical records (Tick appropriate block) mg/m ³ f/ml ppm				90 th percentile HEG classification			
OEL (Tick appropriate block) mg/m ³ f/ml ppm				Pollutant index			
AQI				(F)			
(C) (D) (E)				(F)			
TOTAL				COMMENTS ON:			
Reasons for over-exposures				Corrective measures that will be implemented to prevent / mitigate over-exposures			

i. Airborne Particulates Gases and Vapours Personal Quarterly Report Form 21.9(2)(b)(i) in terms of regulation 9.2.(7) - Single Pollutant HEG Category A and C.

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iii. Airborne Particulates Gasses and Vapours Personal Quarterly Report Form 21.9(2)(b)(iii) in terms of regulation 9.2.(7) - Additive effects HEG Category A and C

Main Commodity Code:		DMRE Mine Code:									
Sample Area:		Sub Mine Code:									
Activity Area Code:		Reporting Period:									
HEG reclassification Band (Based on previous annual 90 th Percentile results)											
Number of samples planned for the current sampling cycle		Q1	Q2								
Number of samples taken		Q3	Q4								
Quarterly HEG classification (Based on 90 th percentile measurement results)		Annual Results: Annual 90th percentile based on the 4 quarters measurements results									
Occupations Codes in HEG	Occupation Name in a HEG	Number of Persons per Occupation	Pollutant		Mean Pollutant Concentration Dose Allocated to Medical Record Mean Pollutant Concentration Dose = Average TWA Pollutant Concentration (average of all results calculated in A)	Range of Pollutant Concentration Min Max	90 th Percentile HEG Classification =PERCENTILE E [(A),0.9]	OEL		Pollutant Index =90th Percentile HEG for the quarter Classification /OEL	AQI = Sum of Pollutant Index
			Concentration per (Tick appropriate box)					{Tick			
			ppm								
			mg/m ³								
			TWA - 8hr								
			STEL								
CL											
(A)		(B)	(C)	(D)	(E)	(F)					
TOTAL											
COMMENTS ON: REASONS FOR OVEREXPOSURES											
CORRECTIVE MEASURES THAT WILL BE IMPLEMENTED TO PREVENT/MITIGATE OVEREXPOSURES											

iv. Airborne Particulates Gasses and Vapours Personal Quarterly Report Form 21.9(2)(b)(iv) in terms of regulation 9.2.(7) - Additive effects HEG Category B

Main Commodity Code:		DMRE Mine Code:	
Sample Area:		Sub Mine Code:	
Activity Area Code:		Reporting Period:	
HEG reclassification Band (Based on			
Q1		Q2	
Q3		Q4	
Annual Results: Annual 90th percentile based on the 4 quarters measurements results			
Bi - Annual Results (Q2 - percentile results of Q1 and Q2)			
Pollutant (Tick appropriate box)			
ppm			
mg/m ³			
TWA - 8hr			
STEL			
CL			
Pollutant analytical %			
Mean Pollutant Concentration Dose = Allocated to Medical Record Mean Pollutant Concentration Dose = Average TWA Pollutant Concentration (average of all results calculated in A)			
Range of Pollutant Concentration			
Min		Max	
90 th Percentile HEG Classification =PERCENTILE [(A)/0.9]			
Pollutant Index =90th Percentile HEG for the quarter Classification /OEL			
AQI = Sum of Pollutant Index			
Occupations Codes in HEG			
Occupation Name in a HEG			
Number of Persons per Occupation			
Pollutant Code			
(A)		(B)	
(C)		(D)	
(E)		(F)	
TOTAL			
COMMENTS ON: REASONS FOR OVEREXPOSURES			
CORRECTIVE MEASURES THAT WILL BE IMPLEMENTED TO PREVENT/MITIGATE OVEREXPOSURES.			

3. The substitution of the form 21.9 (2) (c) with the following form:

Heat stress exposure: Quarterly Report Form 21.9(2)(c) in terms of regulation 9.2.(7)

Main Commodity Code:		Surface		Underground		DMR Mine Code			
Sampling/Measurement Area:		☐		☐		Sub Mine Code			
Activity Area:		Activity area name		Activity area code		Reporting Period			
		Q1		Q2		Q3		Q4	
Heat Environmental classification (based on 90 th percentile of the most significant parameter)									
		Start:		End:					

Thermal: Heat Environment		Parameter	Number of measurements taken per parameter	Mean dose allocated to medical records (for each parameter)	90 th percentile of each parameter (for heat environment classification)	OEL/Standard (for each parameter)	Significant Parameter used for classification (tick relevant parameter)
Occupations Codes	Occupations Description						
		Wet bulb (WB) °C					
		Dry bulb (DB) °C					
		Globe (GT) °C					
		WBGT Index					
COMMENTS ON:							
Reasons for over-exposures							
Corrective measures that will be implemented to prevent / mitigate overexposure							

4. The substitution of the form 21.9 (2) (d) with the following form:

Cold Stress Exposure Quarterly Report Form 21.9(2)(d) in terms of regulation 9.2..(7)

Main Commodity Code:										DMR Mine Code		
Sampling/Measurement Area:						Surface ☐		Underground ☐		Sub Mine Code		
Activity Area Code:						Activity area name		Activity area code		Reporting Period		
										Start		End
Cold Environmental classification (based on 10th percentile of the most significant parameter)						Q1	Q2	Q3	Q4			
Thermal/Cold Environment Occupations Codes			Occupations Description	Number Persons per Occupation	Gold stress Parameter		Number of measurements taken	Mean dose allocated to medical records	10th percentile cold environment classification	OEL		
					Wind chill equivalent temperature °C							
COMMENTS ON:												
Reasons for over-exposures												
Corrective measures that will be implemented to prevent / mitigate overexposure.												

5. The substitution of the form 21.9 (2) (e) with the following form:
 Personal Noise Exposure- Quarterly Report Form 21.9(2)(e) in term of regulation 9.2.(7)

MINE NAME:						
QUARTERLY NOISE EXPOSURE REPORT FORM 21.9(2)(e) in terms of regulation 9.2.(7)						
MAIN COMMODITY CODE:					DMRE MINE CODE:	
SAMPLE AREA:					SUB MINE CODE:	
ACTIVITY AREA CODE:					REPORTING PERIOD: (e.g. January to March)	
HEG DESCRIPTION:						
HEG CLASSIFICATION BAND: (based on 90th percentile statistical analysis of the previous annual results)						
ANNUAL 90th PERCENTILE RESULT FOR THE HEG: (based on all individual measurements obtained from all quarters during the previous measurement cycle)						
NUMBER OF EXPOSED EMPLOYEES: (where there are new employees, number of exposed employees reported should be progressive)		Q1	Q2	Q3	Q4	ANNUAL RESULTS
NUMBER OF SAMPLES PLANNED FOR THE CURRENT SAMPLING CYCLE:						
NUMBER OF SAMPLES TAKEN:						
QUARTERLY HEG CLASSIFICATION: (based in the Log average)						
OCCUPATION CODE IN HEG	OCCUPATION DESCRIPTION IN A HEG	NUMBER OF PERSONS PER OCCUPATION		Each recorded sound pressure level measured ($L_{Aeq, 8h}$) within the HEG linked to the occupation code		
Reasons for individual result/s exceeding the annual HEG Classification						
Corrective actions that will be implemented to mitigate the individual result/s exceeding the annual HEG Classification						

6. The substitution of the form 21.9 (2) (f) with the following form:

Operational – Report Form 21.9(2)(f)																				
Pages/Report																				
Report Exposure Level		Airborne Pollutants				Thermal Stress				Noise										
DMRE Mine Code				DMRE Sub Mine Code				Sampling Period												
Mine																				
Address								Control Group												
Area Code								Commodities												
Section 4.1 Details																				
Employer Name								Production												
Telephone								Process												
Email								Fax												
Section 12.1 Details																				
Full Time		Part Time		MEC Certificate No.		Intermediate MEC Certificate No.		SAIOH Registration												
Name								Cell Phone												
Telephone								Email												
Airborne Pollutants		Total no. of employees at Risk per pollutant		No. of Persons per category		Gases & Vapours		Total no. of employees at Risk per pollutant		No. of employees per category		Noise		No. of employees per category		Thermal Stress		No. of employees per category		
Substance	Code			A	B	C	Substance	Code				A	B	C				A	B	C
Labour		Permanent		Contractors		Total Labour														
Name and Surname						Name and Surname														
Employee Section 4.1 Appointee		Signature		Date		Employee Section 4.1 Appointee		Signature		Date										