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GOVERNMENT NOTICES • GOEWERMENTSKENNISGEWINGS

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
		Q3	Q4
Quarterly HEG classification based on 90 th percentile measurement results			
<div> <div>HEG</div> <div> <div>Occupations codes in HEG</div> <div>Number of persons per occupation</div> </div> </div>		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) 2. If Sampling time > exposure duration TWA 8h= Sampling Concentration* actual sampling time 480 (min)	Pollutant analytical mass (mg) Pollutant Concentration = Pollutant mass (mg)/Sample Volume (m ³) 1. If Sampling time = exposure duration or 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)
		(A)	(B)
		(C)	(D)
		(E)	(F)
TOTAL			
COMMENTS ON:			
Reasons for over-exposures			
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 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)	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	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)	Mean pollutants concentration dose allocated to medical records (Tick appropriate block) mg/m ³ f/ml ppm
Occupation codes in HEG	Occupation s in HEG	Number of persons per occupation	Pollutant index
TOTAL		(A)	(B)
COMMENTS ON:		(C)	(D)
Reasons for over-exposures		(E)	(F)
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 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)		Q1 Q2 Q3 Q4	
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 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)	
Mean pollutants concentration dose allocated to medical records (Tick appropriate block) mg/m ³ f/ml ppm		Mean pollutants concentration dose allocated to medical records (Tick appropriate block) mg/m ³ f/ml ppm	
90 th percentile HEG classification		90 th percentile HEG classification	
OEL		OEL	
Pollutant index		Pollutant index	
AQI		AQI	
Occupations in HEG		Occupations in HEG	
Number of persons per occupation		Number of persons per occupation	
Pollutant code		Pollutant code	
(A)		(B)	
(C)		(D)	
(E)		(F)	
TOTAL		TOTAL	
COMMENTS ON:		COMMENTS ON:	
Reasons for over-exposures		Reasons for over-exposures	
Corrective measures that will be implemented to prevent / mitigate over-exposures		Corrective measures that will be implemented to prevent / mitigate over-exposures	

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

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)			
Q1	Q2	Q3	Q4
BI - Annual Results (Q2- percentile results of Q1 and Q2)		Annual Results: Annual 90 th percentile based on the 4 quarters measurements results	
Number of samples planned for the current sampling cycle			
Number of samples taken			
Quarterly HEG classification (Based on 90 th percentile measurement results)			
HEG		Pollutant analytical %	
Occupations Codes in HEG	Pollutant Code	Mean Pollutant Concentration Dose Allocated to Medical Record Mean Pollutant Concentration Dose = Average TWA Pollutant Concentration (average of all results calculated in A)	
	Occupation Name in a HEG	Range of Pollutant Concentration	
	Number of Persons per Occupation	90 th Percentile HEG Classification =PERCENTILE [(A),0.9]	
		Min	
		Max	
		(D)	
		(C)	
		(B)	
		(A)	
		ppm	
		mg/m ³	
		TWA - 8hr	
		STEL	
		CL	
		OEL	
		(Tick appropriate box)	
		mg/m ³	
		ppm	
		(D)	
		(C)	
		(B)	
		(A)	
TOTAL			
COMMENTS ON: REASONS FOR OVEREXPOSURES			
CORRECTIVE MEASURES THAT WILL BE IMPLEMENTED TO PREVENT/MITIGATE OVEREXPOSURES.			

ii. 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)						
	Q1	Q2	Q3	Q4	Annual Results: Annual 90th percentile based on the 4 quarters measurements results	
Number of samples planned for the current sampling cycle						
Number of samples taken						
Quarterly HEG classification (Based on 90 th percentile measurement results)						
HEG		Pollutant Code	Pollutant Concentration per (Tick appropriate box)		Mean Pollutant Concentration Dose Allocated to Medical Record Mean Pollutant Concentration Dose = Average TWA Pollutant Concentration (average of all results calculated in A)	
Occupations Codes in HEG	Occupation Name in a HEG		Number of Persons per Occupation	ppm		Pollutant analytical %
				mg/m ³		
				TWA - 8hr		
				STEL		
			CL			
			(A)	(B)	(C)	

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]			
OEL (Tick mg/m ³ ppm			
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:		<input type="checkbox"/>		<input type="checkbox"/>		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 <input type="checkbox"/>		Underground <input type="checkbox"/>		Sub Mine Code			
Activity Area Code:		Activity area name		Activity area code		Reporting Period			
						Start		End	
		Q1		Q2		Q3		Q4	
Cold Environmental classification (based on 10th percentile of the most significant parameter)									

Thermal Cold Environment		Cold stress Parameter		Mean dose allocated to cold environment classification		10th percentile OEL	
Occupations Codes	Occupations Description	Number of Persons per Occupation	Wind chill equivalent temperature °C	Number of measurements taken	Mean dose allocated to cold environment classification	10th percentile OEL	
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													
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		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									

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