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Effective Date	January 2021	•	
Review Date	January 2024		

Enquiries: TR. Rammutla

Tel: 014 762 6375

Phumudzo Thivhafuni Date: 2021/06/31

Limpopo Dept. of Economic Development, Environment and

Tourism

Private Bag 9484 POLOKWANE 0700

ThivhafuniPO@ledet.gov.za

Ref: 12/4/12L-W2/A3 - Oct 2020 Rev1

Dear Phumudzo

MEDUPI POWER STATION MONTHLY EMISSIONS REPORT FOR THE MONTH OF OCTOBER 2020

This document serves as the monthly report required in terms of Section 7.7.1 of Medupi Power Station Provisional Atmospheric Emission License (AEL), 12/4/12L-W2/A3.

This report is a reflection of Unit 2, 3, 4, 5 and 6 gaseous and particulate emissions performance against the AEL limit for the month of October 2020 only.

1. Raw Materials and Products

Table 1: Quantity of raw materials and products for Unit 2, 3, 4, 5 and 6 in October 2020

Raw Materials and	Raw Material Type	Unit	Maximum Permitted Consumption/ Rate (Quantity)	Unit 2, 3, 4, 5 and 6 consumption October 2020
Products	Coal	Tons/month	1 875 000	692 471
used	Fuel Oil	Tons/month	40 000	2088
Production Rates	Product/ By- Product Name	Unit	Maximum Production Capacity Permitted (Quantity)	Unit 2, 3, 4, 5 and 6 Production Rate in Month of October 2020
	Energy	MW	4 800	2399
	Ash Emitted	Tons/month	not specified	239,1

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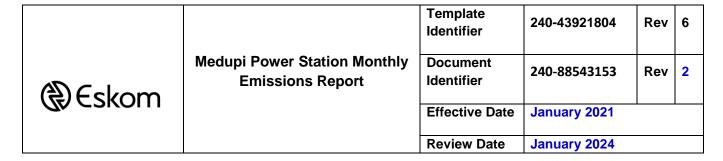
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Table 2: Daily consumption and production rates

	Report	able hou	ırs of Op	peration	1			Drodu	ıction	rate (M	١٨/١
Date	: = .	Ħ.	∷ :	it	= .	Coal usage		Fiout	action	rate (IVI	vv)
Date	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6		U2	U3	U4	U5	U6
01-October- 20	12,3	24,0	0,0	24,0	24,0	25508	481	600	148	631	577
02-October- 20	24,0	24,0	0,0	24,0	24,0	26179	532	573	0	643	619
03-October- 20	24,0	19,0	0,0	24,0	24,0	24325	510	566	0	612	623
04-October- 20	24,0	0,0	0,0	24,0	24,0	16048	480	498	0	482	562
05-October- 20	24,0	10,5	0,0	24,0	24,0	24384	450	657	0	561	570
06-October- 20	24,0	10,4	0,0	24,0	24,0	19405	437	482	0	533	460
07-October- 20	24,0	5,8	0,0	24,0	24,0	22872	383	581	0	546	599
08-October- 20	24,0	24,0	0,0	24,0	24,0	25159	426	613	0	559	622
09-October- 20	24,0	24,0	0,0	24,0	24,0	24604	450	569	0	569	580
10-October- 20	24,0	24,0	0,0	24,0	24,0	24178	450	599	0	576	532
11-October- 20	24,0	24,0	0,0	24,0	24,0	24715	450	615	0	641	527
12-October- 20	24,0	24,0	0,0	24,0	24,0	25562	450	671	0	646	575
13-October- 20	24,0	24,0	0,0	24,0	24,0	24195	450	559	0	588	552
14-October- 20	24,0	24,0	0,0	24,0	24,0	22422	439	470	0	552	532
15-October- 20	24,0	24,0	0,0	24,0	24,0	22007	436	522	0	571	473
16-October- 20	24,0	24,0	0,0	24,0	24,0	22435	450	488	0	600	508
17-October- 20	24,0	24,0	0,0	24,0	24,0	22959	450	497	0	615	568
18-October- 20	24,0	24,0	0,0	24,0	24,0	23644	450	587	0	601	549
19-October- 20	24,0	24,0	0,0	24,0	24,0	24410	450	600	0	628	547
20-October- 20	24,0	24,0	0,0	13,9	3,3	17075	450	559	173	584	456
21-October- 20	24,0	24,0	1,1	0,7	0,0	19068	403	491	282	470	0
22-October- 20	24,0	24,0	10,2	24,0	0,0	22082	448	606	320	632	0
23-October- 20	24,0	24,0	8,6	24,0	0,0	23362	450	643	334	645	0
24-October- 20	24,0	24,0	5,6	24,0	0,0	17561	450	439	330	577	0
25-October- 20	24,0	24,0	0,0	24,0	0,0	17496	450	450	0	612	214
26-October- 20	24,0	24,0	0,0	24,0	4,7	22494	440	465	0	586	522
27-October- 20	24,0	24,0	0,0	24,0	24,0	22793	450	487	0	515	550
28-October- 20	24,0	24,0	0,0	24,0	8,9	22647	457	667	0	580	471
29-October- 20	22,6	24,0	0,0	24,0	6,3	25425	469	665	0	618	565
30-October- 20	0,0	24,0	0,0	24,0	24,0	18510	0	553	0	600	555
31-October- 20	0,0	24,0	0,0	24,0	24,0	18952	0	570	0	653	552

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2. Abatement Technology

Table 3: Abatement Equipment Control Technology efficiency for month of October 2020

Associated Unit/Stack	Technology Type	Efficiency
Unit 1	Fabric Filter Plant (FFP)	-
Unit 2	Fabric Filter Plant (FFP)	99,882%
Unit 3	Fabric Filter Plant (FFP)	99,919%
Unit 4	Fabric Filter Plant (FFP)	99,964%
Unit 5	Fabric Filter Plant (FFP)	99,896%
Unit 6	Fabric Filter Plant (FFP)	99,839%

3. Energy Source Characteristics

Table 4: Energy Source Material Characteristics for the month of October 2020

Characteristic	Stipulated Range Monthly Average Content (% by weight on a dry basis)			
	Coal			
Sulphur Content	1.3 - 2.2 1.360			
Ash Content	35 - 39	34.270		

Table 5: Energy Source Material Characteristics for the month of October 2020

Characteristic	Stipulated Range (%) Monthly Average Content (%)			
	Oil			
Sulphur Content	0.5 - 3.5			
Ash Content	0.02 - 0.1 0.020			

4. Emissions Reporting

Medupi Power Station uses Continuous Emission Monitoring System which uses the extractive method for analysis.

The emission limits are as follows:

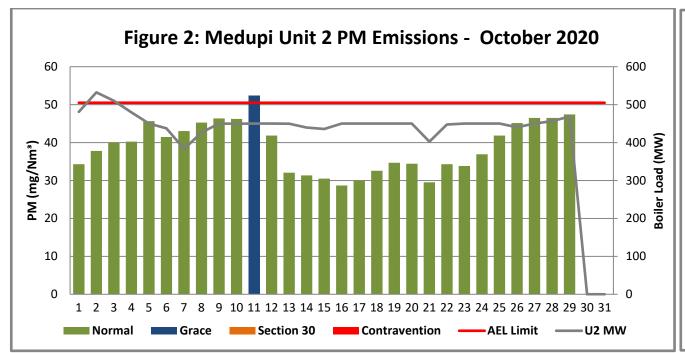
 SO_2 Monthly = 3500 mg/Nm³ Dust Daily= 50 mg/Nm³ NO₂ Daily= 750 mg/Nm³

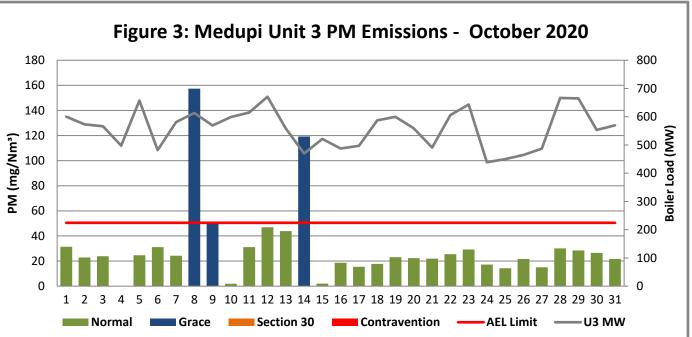
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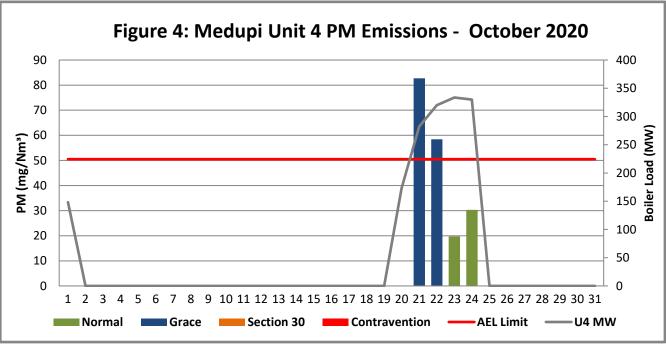
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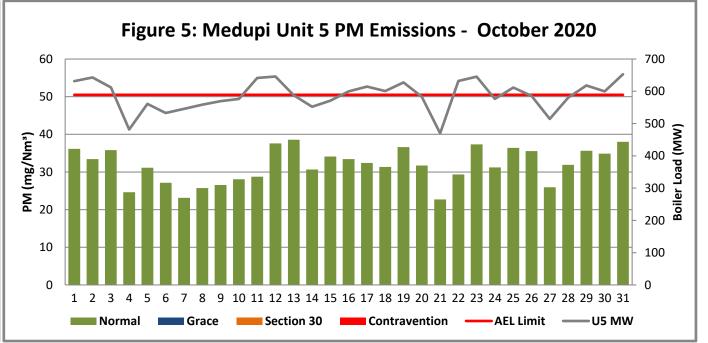


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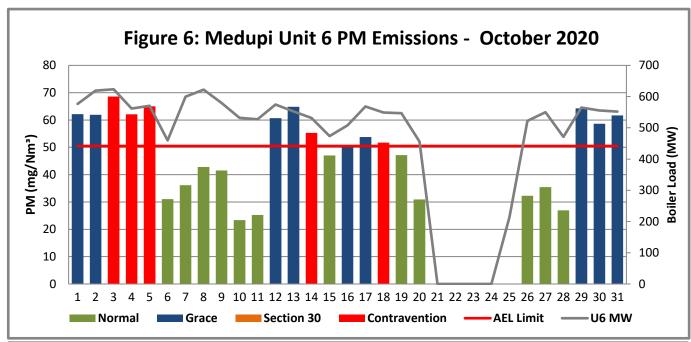


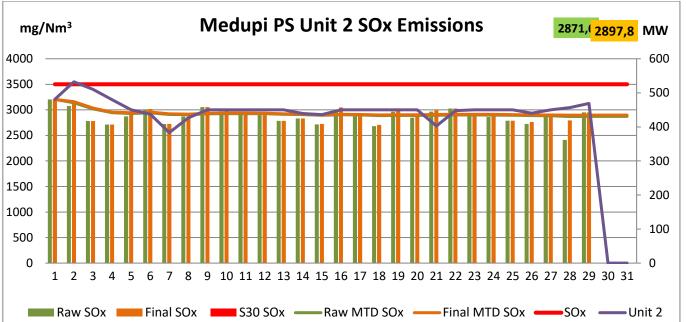


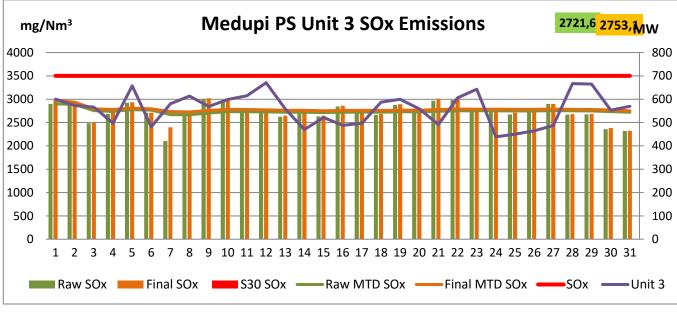


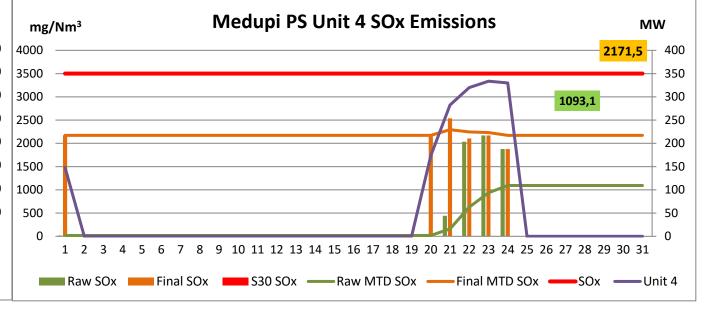


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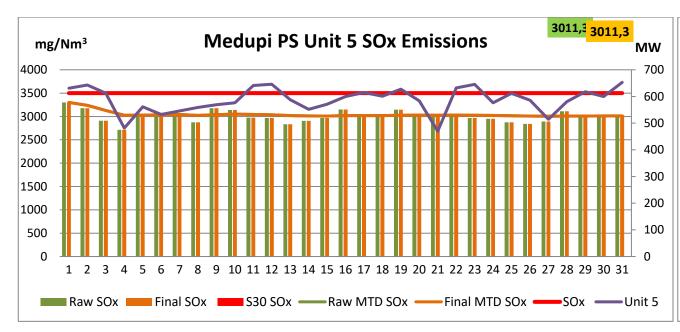


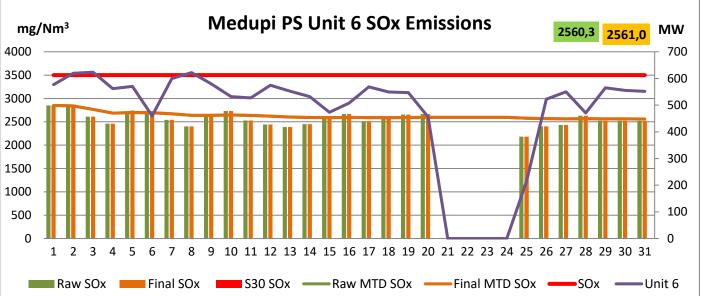


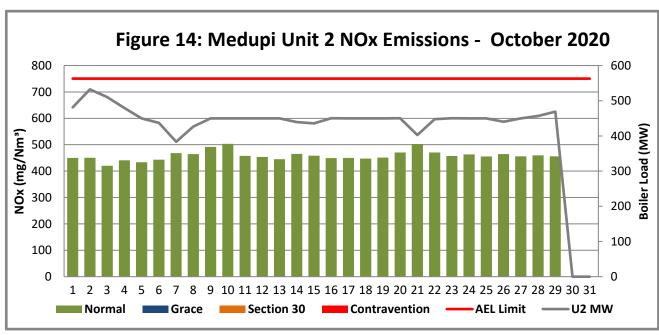
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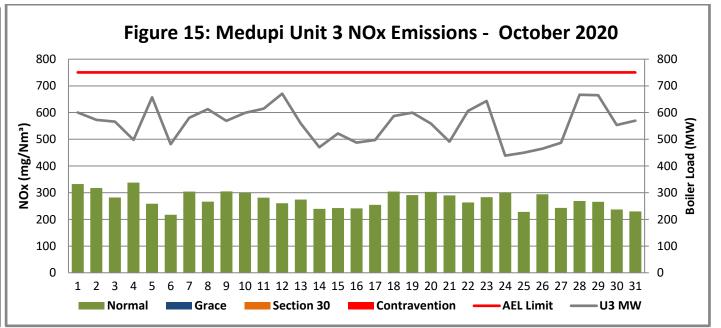


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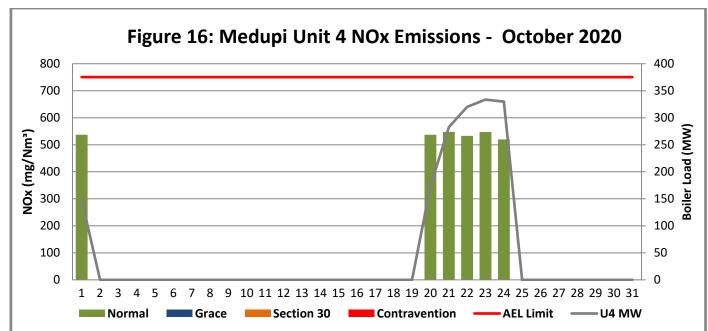


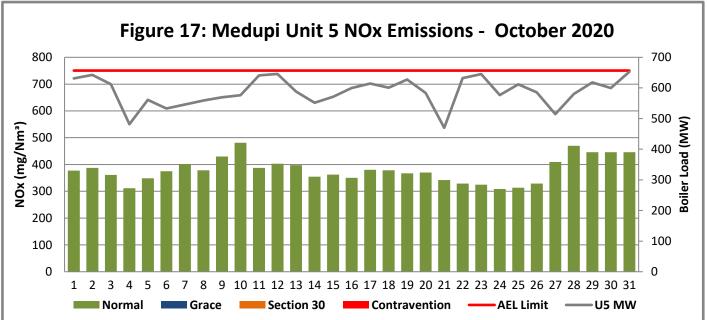


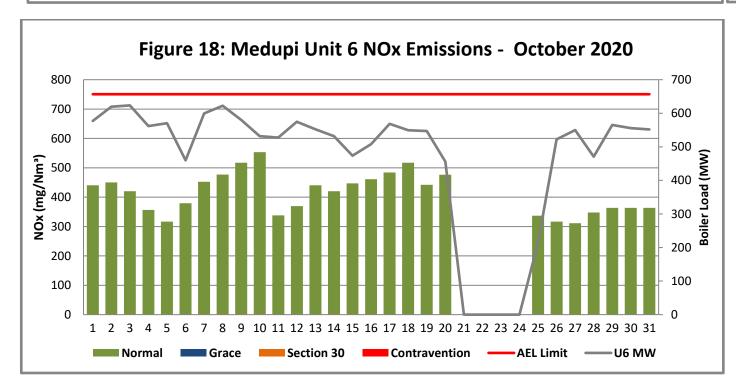




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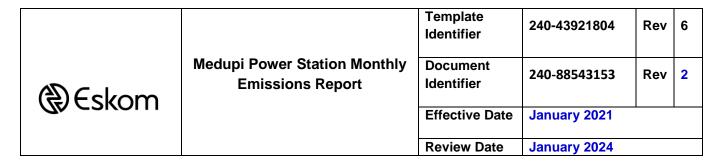


Table 7: Monthly tonnages for the month of October 2020

Unit	PM (tons)	SO ₂ (tons)	NO ₂ (tons)	CO (tons)
1	-	-	-	-
2	56,3	4 226	668	20
3	47,3	4 230	421	185
4	1,4	213	51	3
5	59,6	5 669	713	37
6	74,5	4 096	661	34
SUM	239,1	18 434	2 515	278

5. Comments on the performance and availability of each unit

Medupi Power station complied with the average emissions limit for SOx and NOx pollutants in all units during the reporting period. A total of 14 PM exceedances were recorded in 5 units for the reporting period, all this exceedances were picked after back-fitting of data and is reported as a contravention in this report. Unit 4 was off for most of the reporting period, Unit 3 and 5 were available on all the days during the reporting period, Unit 2 and 6 were off for 2 and 4 days respectively.

6. Continuous Emission Monitoring Systems (CEMS)

Unit 2, 3, 4, 5 and 6 Continuous Emission Monitoring Systems were in operation at all times when the unit was on load.

Table 6: Periods during which CEMS was inoperative

Date	Time	CEMS status	Comments
N/A	N/A	N/A	N/A

Table 7: CEMS Monitor Reliability

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Associated Unit/Stack	PM	SO ₂	NO	O ₂
Unit 1	n/a	n/a	n/a	n/a
Unit 2	99,6	99,4	99,4	99,0
Unit 3	99,9	99,4	96,9	97,4
Unit 4	100,0	52,1	52,8	31,8
Unit 5	100,0	100,0	100,0	100,0
Unit 6	99,6	99,6	99,6	80,8

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7. CEMS Calibration certificates and equipment used for calibration

See attached Appendix A

8. Ambient Air Quality Monitoring Report

The Ambient Air Quality Monitoring and Dust fall-out report are emailed to the Licensing authority on a monthly basis.

9. Visual inspection of the exterior walls of the fuel oil tanks, fuel oil inventory data and TVOC Estimation

Visual inspection was conducted and there were no leaks observed on the exterior walls of the fuel oil tanks.

Table 8: Total Volatile Organic Compound (TVOC) for October 2020

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⊕ Esko	om				
ar com					
CALCULATION	OF EMISSIONS OF TOTAL VOLATILE COMPO	OUNDS FROM FUEL OIL ST	ORAGE TANKS*		
Date:	30 October 2020				
Station:	Medupi Power Station	Medupi Power Station			
Province:	Limpopo Province				
Tank no.	1-2				
Description:	Outdoor fuel oil storage tank				
Tank Type:	Vertical fixed roof (vented to atmosphere)				
Material stored:	Fuel Oil 150				
	MONTHLY INPUT DATA FOR T	HE STATION			
	Please only insert relevant monthly data inpu	its into the <u>blue cells</u> below			
Choose from a dropdown menu in the green cells					
The total VOC emissions for the month are in the red cells					
IMPORTANT: Do not change any other cells without consulting the AQ CoE					
MONTH:	October				
GENERAL INFOR	RMATION:	Data	Unit		
Total number of	fuel oil tanks:	2	NA		
Height of tank:*		14.2	m		
Diameter of tank	:	12	m		
Net fuel oil throu	ghput for the month:	<u>2088</u>	tons/month		
Molecular weigh	t of the fuel oil:	166.00	Lb/lb-mole		
METEROLOGIC	AL DATA FOR THE MONTH	Data	Unit		
Daily average an	nbient temperature	26.19	°C		
Daily maximum a	mbient temperature	33.65	°C		
Daily minimum ar	nbient temperature	19.11	°C		
Daily ambient ter	nperature range	14.54	°C		
Daily total insola	tion factor	5.81	kWh/m²/day		
Tank paint colou	r	Aluminum/Specular	NA		
Tank paint solar absorbtance 0.39 NA			NA		
FINAL OUTPUT:		Result	Unit		
Breathing losses	S:	0.74	kg/month		
Working losses:		0.06 kg/month			
	(Total TVOC Emissions for the month):				
*Calculations performed on this spreadsheet are taken from the USEPA AP-42- Section 7.1 Organic Liquid Storage Tanks - January 1996. This spreadsheet is derived from materials provided by Jimmy Peress, PE, Tritech Consulting					
Tanka lanuari 4	OOC. This approach book is down and from the right and	envided by Limmy, Dave DE	Tritooh Congrillia		

PeressJ@nyc.rr.com.

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10. Air quality improvements initiatives and public education and awareness campaigns

No awareness campaign.

11. Complaints Register

Table 9: Complaints for the month of October 2020

Source Code/ Name	Air pollution complaints received	Calculation of Impacts/ emissions associated with the incident	Date of complaint and date of response by the license holder	Results of investigation	Action taken to resolve the complaint
N/A	No complaints received	N/A	N/A	N/A	N/A

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Compiled by:	Lufuno Tshidzumba Senior Environmental Advisor
Verified by:	Malose LangaSystem Engineer Boiler
Supported by:	Sithokozile Hlongwa pp Anager Boiler Engineering Manager
Supported by:	Rosetta Rammutla TR Rammutla Environmental Manager
Supported by:	Jabulani Mkhatshwa Engineering Group Manager

I Dan Mashigo, declares that the information provided in this report is accurate and correct.

Yours sincerely

Dan Mashigo

GENERAL MANAGER: MEDUPI POWER STATION (Acting)

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APPENDIX 1: CEMS Calibration certificates



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CALIBRATION CERTIFICATE

			CE	RTIFICATE NO:
	3641			3641
CUSTOMER:	Eskom Medupi	Eskom Medupi		SC1757
CONTACT NAME:	Lerato Sehume	Lerato Sehume		078 012 9038
MODEL:	Dr Fodisch MGA 23	SERIAL NO:	15711	
AUXILIARY EQUIPMENT:		Unit 2		_

CI	HAN	PRIOR	FINAL	TEST GAS	TEST GAS VALUE	GAS CERTIFICATE NUMBER	EXPIRY DATE
	Zero	-1 ppm	0 ppm	Air	20.95 %	Air	N/A
co	Span	837 ppm	835 ppm	co	836.4 ppm	P20F000332	2021-02-03
NO	Zero	-1 ppm	0 ppm	Air	20.95 %	Air	N/A
NO	Span	878 ppm	877 ppm	NO	876.7 ppm	P20F000346	2021-01-21
	Zero	-15 ppm	0	Air	20.95 %	Air	N/A
802	Span	2203 ppm	2200 ppm	302	2200.0 ppm	P20F000345	2021-02-21
02	Zero	-0.08 %	0.00 %	N2	99.99 %	92520	2021-02-27
02	Span	21.10 %	20.95 %	Air	20.95 %	Air	N/A

REPORT: Inspect all sample lines, filters and coolers, filter elements need to be change. Calibrate analyser with zero and span gas, calibration was done according to cylinder values, analyser was responding to all test gas.

Date of Calibration: 18 Aug 2020 Calibration Due Date: Nov 2020 Technician: J. Faber







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CALIBRATION CERTIFICATE

			CERTIFICATE NO:		
				3642	
CUSTOMER:	Eskom Medupi		JOB NO:	SC1757	
CONTACT NAME:	Lerato Sehume		TEL:	078 012 9038	
MODEL:	Dr Fodisch MGA 23 SERIAL NO:		15712		
AUXILIARY EQUIPMENT: U		Unit 3			

CI	IAN	PRIOR	FINAL	TEST GAS	TEST GAS VALUE	GAS CERTIFICATE NUMBER	EXPIRY DATE
	Zero	-2 ppm	0 ppm	Air	20.95 %	Air	N/A
co	Span	839 ppm	835 ppm	co	836.4 ppm	P20F000332	2021-02-03
NO	Zero	-3 ppm	0 ppm	Air	20.95 %	Air	N/A
NO	Span	882 ppm	877 ppm	NO	876.7 ppm	P20F000346	2021-01-21
	Zero	0 ppm	0	Air	20.95 %	Air	N/A
802	Span	2249 ppm	2200 ppm	802	2200.0 ppm	P20F000345	2021-02-21
02	Zero	-0.05 %	0.00 %	N2	99.99 %	92520	2021-02-27
02	Span	20.97 %	20.95 %	Air	20.95 %	Air	N/A

REPORT: Inspect all sample lines, filters and coolers, filter elements need to be change. Calibrate analyser with zero and span gas, calibration was done according to cylinder values, analyser was responding to all test gas.

Date of Calibration: 18 Aug 2020 Calibration Due Date: Nov 2020 Technician:







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CALIBRATION CERTIFICATE

			CERTIFICATE NO:		
				3643	
CUSTOMER:	Eskom Medupi		JOB NO:	SC1757	
CONTACT NAME:	Lerato Sehume		TEL:	078 012 9038	
MODEL:	Dr Fodisch MGA 23	SERIAL NO:	13668		
AUXILIARY EQUIPM	Unit 4				

CH	HAN	PRIOR	FINAL	TEST GAS	TEST GAS VALUE	GAS CERTIFICATE NUMBER	EXPIRY DATE
	Zero	0 ppm	0 ppm	Air	20.95 %	Air	N/A
co	Span	833 ppm	835 ppm	co	836.4 ppm	P20F000332	2021-02-03
NO	Zero	-2 ppm	0 ppm	Air	20.95 %	Air	N/A
no.	Span	878 ppm	877 ppm	NO	876.7 ppm	P20F000346	2021-01-21
802	Zero	-9 ppm	0	Air	20.95 %	Air	N/A
802	Span	2257 ppm	2200 ppm	802	2200.0 ppm	P20F000345	2021-02-21
02	Zero	0.12 %	0.00 %	N2	99.99 %	92520	2021-02-27
02	Span	21.04 %	20.95 %	Air	20.95 %	Air	N/A

REPORT: Inspect all sample lines, filters and coolers, filter elements need to be change. Calibrate analyser with zero and span gas, calibration was done according to cylinder values, analyser was responding to all test gas.

Date of Calibration: 17 Aug 2020 Calibration Due Date: Nov 2020 Technician: J. Faber







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CALIBRATION CERTIFICATE

			CERTIFICATE NO:		
				3644	
CUSTOMER:	Eskom Medupi		JOB NO:	SC1757	
CONTACT NAME:	Lerato Sehume		TEL:	078 012 9038	
MODEL:	Dr Fodisch MGA 23	SERIAL NO:	: 13670		
AUXILIARY EQUIPMENT:		Unit 5			

CH	IAN	PRIOR	FINAL	TEST GAS	TEST GAS VALUE	GAS CERTIFICATE NUMBER	EXPIRY DATE
	Zero	-25 ppm	0 ppm	Air	20.95 %	Air	N/A
co	Span	815 ppm	835 ppm	co	836.4 ppm	P20F000332	2021-02-03
NO	Zero	-18 ppm	0 ppm	Air	20.95 %	Air	N/A
no.	Span	857 ppm	877 ppm	NO	876.7 ppm	P20F000346	2021-01-21
802	Zero	-34 ppm	0	Air	20.95 %	Air	N/A
802	Span	2236 ppm	2200 ppm	802	2200.0 ppm	P20F000345	2021-02-21
02	Zero	0.06 %	0.00 %	N2	99.99 %	92520	2021-02-27
02	Span	21.13 %	20.95 %	Air	20.95 %	Air	N/A

REPORT: Inspect all sample lines, filters and coolers, filter elements need to be change. Calibrate analyser with zero and span gas, calibration was done according to cylinder values, analyser was responding to all test gas.

Date of Calibration: 17 Aug 2020 Calibration Due Date: Nov 2020 Technician:

J. Faber







CONTROLLED DISCLOSURE

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CALIBRATION CERTIFICATE

			CERTIFICATE NO:		
				3645	
CUSTOMER:	Eskom Medupi		JOB NO:	SC1757	
CONTACT NAME:	Lerato Sehume		TEL:	078 012 9038	
MODEL:	Dr Fodisch MGA 23 SERIAL NO:		13669		
AUXILIARY EQUIPME	Unit 6				

CI	HAN	PRIOR	FINAL	TEST GAS	TEST GAS VALUE	GAS CERTIFICATE NUMBER	EXPIRY DATE
	Zero	-5 ppm	0 ppm	Air	20.95 %	Air	N/A
CO	Span	831 ppm	835 ppm	co	836.4 ppm	P20F000332	2021-02-03
	Zero	-15 ppm	0 ppm	Air	20.95 %	Air	N/A
NO	Span	868 ppm	877 ppm	NO	876.7 ppm	P20F000346	2021-01-21
802	Zero	-83 ppm	0	Air	20.95 %	Air	N/A
802	Span	2389 ppm	2389 ppm	802	2200.0 ppm	P20F000345	2021-02-21
	Zero	-0.36 %	0.00 %	N2	99.99 %	92520	2021-02-27
02	Span	21.34 %	20.95 %	Air	20.95 %	Air	N/A

REPORT: Inspect all sample lines, filters and coolers, filter elements need to be change. SO2 cell diagnostics is low and cell does not calibrate on cylinder value, but cell is still reacting, and O2 cell sensitivity start to go down. Calibrate analyser with zero and span gas, calibration was done according to cylinder values, analyser was responding to all test gas.

Date of Calibration: 17 Aug 2020 Calibration Due Date: Nov 2020 Technician: J. Faber







Document Number: TH-PFC-002-F1 Rev 2

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