	Medupi Power Station Monthly Emissions Report	Template Identifier	240-43921804	Rev	6
		Document Identifier	240-88543153	Rev	2
		Effective Date	January 2021		
		Review Date	January 2024		

Phumudzo Thivhafuni

Date: 2021/07/31

Limpopo Dept. of Economic Development, Environment and Tourism

Enquiries: TR. Rammutla

Private Bag 9484
POLOKWANE
0700

Tel: 014 762 6375

ThivhafuniPO@ledet.gov.za

Ref: 12/4/12L-W2/A3 – May 2020 Rev1

Dear Phumudzo

MEDUPI POWER STATION MONTHLY EMISSIONS REPORT FOR THE MONTH OF MAY 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 May 2020 only.

1. Raw Materials and Products

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

Raw Materials and Products used	Raw Material Type	Unit	Maximum Permitted Consumption/ Rate (Quantity)	Unit 2,3, 4, 5 and 6 consumption May 2020
	Coal	Tons/month	1 875 000	731 029
	Fuel Oil	Tons/month	40 000	659
Production Rates	Product/ By-Product Name	Unit	Maximum Production Capacity Permitted (Quantity)	Unit 2, 3, 4, 5 and 6 Production Rate in Month of May 2020
	Energy	MW	4 800	2140
	Ash Emitted	Tons/month	not specified	202.2

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Table 2: Daily consumption and production rates

Date	Reportable hours of Operation					Fuel Consumption (tons)				Production (MW)
	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Oil			Coal	Units
						Aux Boiler	Units	Total	Units	2,3,4,5 & 6
01- May -20	24,0	21,3	9,4	24,0	0.0	0.0	0	0	22377	2041,582
02- May -20	24,0	0,0	24,0	24,0	0.0	0.0	17	17	18528	1717,672
03- May -20	24,0	19,4	24,0	24,0	0.0	0.0	0	0	20092	1842,572
04- May -20	24,0	24,0	24,0	24,0	0.0	0.0	20	20	24324	2150,465
05- May -20	24,0	24,0	22,3	24,0	0.0	0.0	53	53	26668	2383,206
06- May -20	24,0	24,0	0,0	24,0	0.0	0.0	59	59	19566	1705,909
07- May -19	24,0	24,0	0,0	24,0	0.0	0.0	7	7	20801	1811,841
08- May -20	24,0	24,0	0,0	24,0	0.0	0.0	5	5	19436	1743,218
09- May -20	24,0	24,0	0,0	24,0	0.0	0.0	9	9	16161	1426,251
10- May -20	24,0	24,0	0,0	24,0	0.0	0.0	0	0	18003	1577,46
11- May -20	24,0	24,0	0,0	24,0	0.0	0.0	0	0	20277	1936,557
12- May -20	24,0	24,0	13,8	24,0	0.0	0.0	15	15	24748	2218,605
13- May -20	24,0	24,0	24,0	24,0	0.0	0.0	3	3	25222	2284,062
14- May -20	24,0	24,0	24,0	24,0	0.0	0.0	21	21	26796	2407,065
15- May -20	24,0	24,0	24,0	24,0	0.0	0.0	17	17	26097	2352,791
16- May -20	24,0	24,0	24,0	24,0	0.0	0.0	6	6	26780	2359,456
17- May -20	24,0	24,0	24,0	24,0	0.0	0.0	0	0	26180	2326,764
18- May -20	24,0	24,0	24,0	24,0	0.0	0.0	13	13	24183	2135,114
19- May -20	24,0	24,0	24,0	24,0	0.0	0.0	0	0	23985	2275,698
20- May -20	24,0	24,0	24,0	24,0	0.0	0.0	0	0	25899	2330,681
21- May -20	24,0	24,0	24,0	24,0	0.0	0.0	23	23	24784	2193,212
22- May -20	24,0	24,0	24,0	24,0	0.0	0.0	26	26	24619	2217,189
23- May -20	24,0	24,0	24,0	24,0	0.0	0.0	33	33	24844	2290,183
24- May -20	24,0	24,0	24,0	24,0	0.0	0.0	13	13	25575	2277,016
25- May -20	24,0	24,0	23,0	24,0	0.0	0.0	45	45	26630	2367,501
26- May -20	24,0	24,0	0,0	24,0	0.0	0.0	0	0	21443	2215,722
27- May -20	24,0	24,0	7,9	24,0	0.0	0.0	142	142	27723	2468,446
28- May -20	24,0	24,0	24,0	24,0	0.0	0.0	11	11	26649	2433,717
29- May -20	24,0	24,0	1,0	24,0	0.0	0.0	2	2	24516	2395,86
30- May -20	24,0	24,0	13,8	24,0	0.0	0.0	94	94	25730	2380,216
31-May -20	24,0	24,0	24,0	24,0	0.0	0.0	0	0	22398	2089,61

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2. Abatement Technology

Table 3: Abatement Equipment Control Technology utilisation for month of May 2020

Associated Unit/Stack	Technology Type	Efficiency
Unit 1	Fabric Filter Plant (FFP)	0
Unit 2	Fabric Filter Plant (FFP)	99.927%
Unit 3	Fabric Filter Plant (FFP)	99.968%
Unit 4	Fabric Filter Plant (FFP)	99.903%
Unit 5	Fabric Filter Plant (FFP)	99.842%
Unit 6	Fabric Filter Plant (FFP)	0

3. Energy Source Characteristics

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

Characteristic	Stipulated Range (% by weight on a dry basis)	Monthly Average Content (% by weight on a dry basis)
	Coal	
Sulphur Content	1.3 - 2.2	1.53
Ash Content	35 - 39	34.88

4. Emissions Reporting

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

The emission limits are as follows:

SO₂ Monthly = 3500 mg/Nm³ Dust Daily= 50 mg/Nm³ NO₂ Daily= 750 mg/Nm³

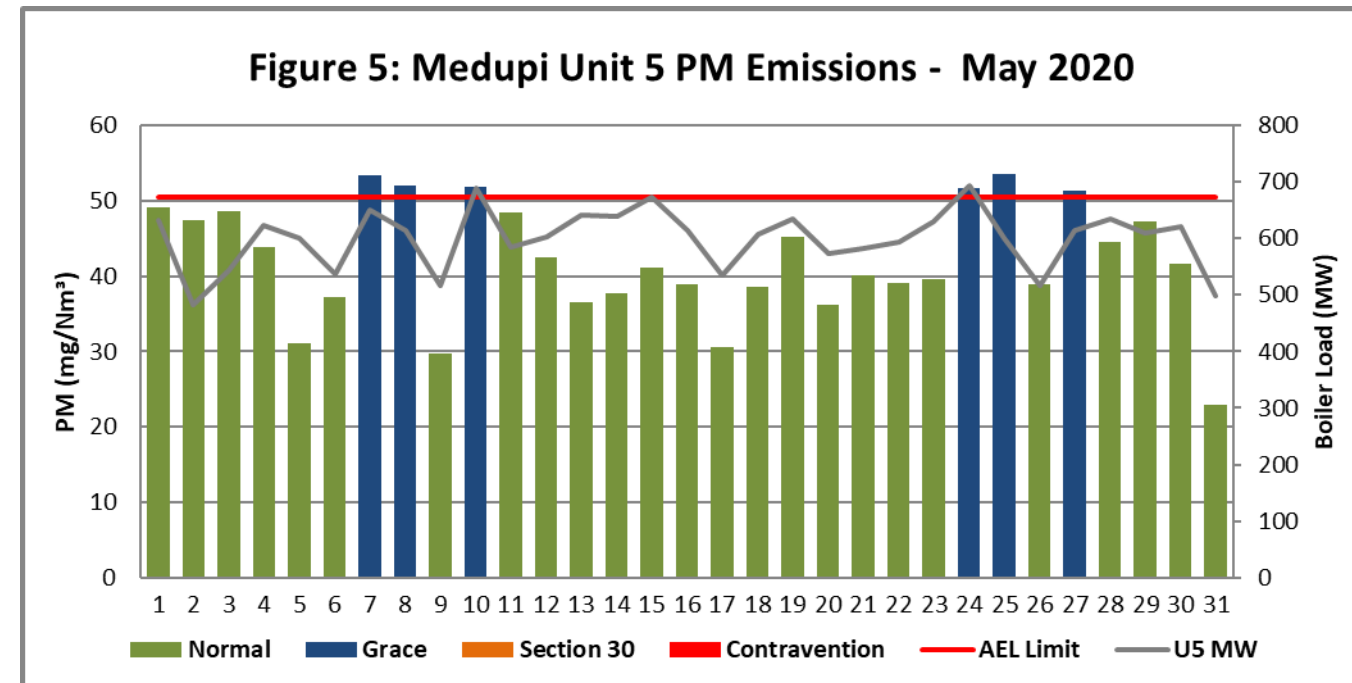
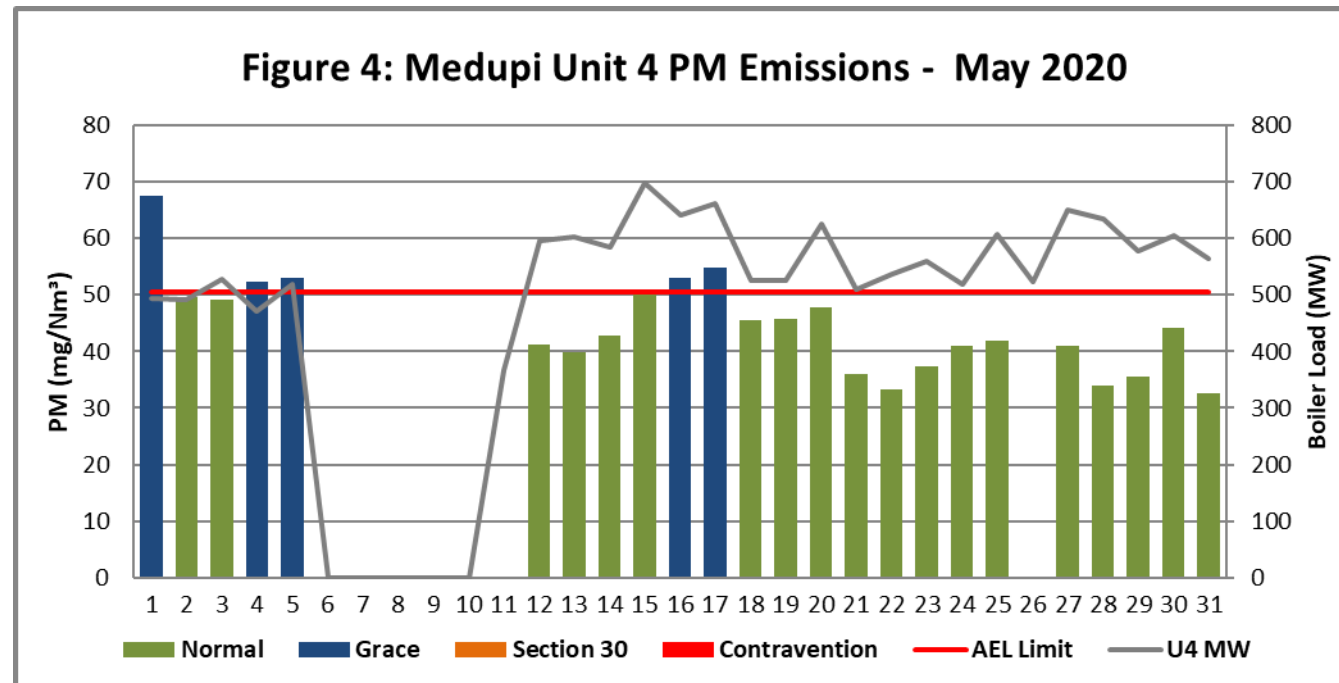
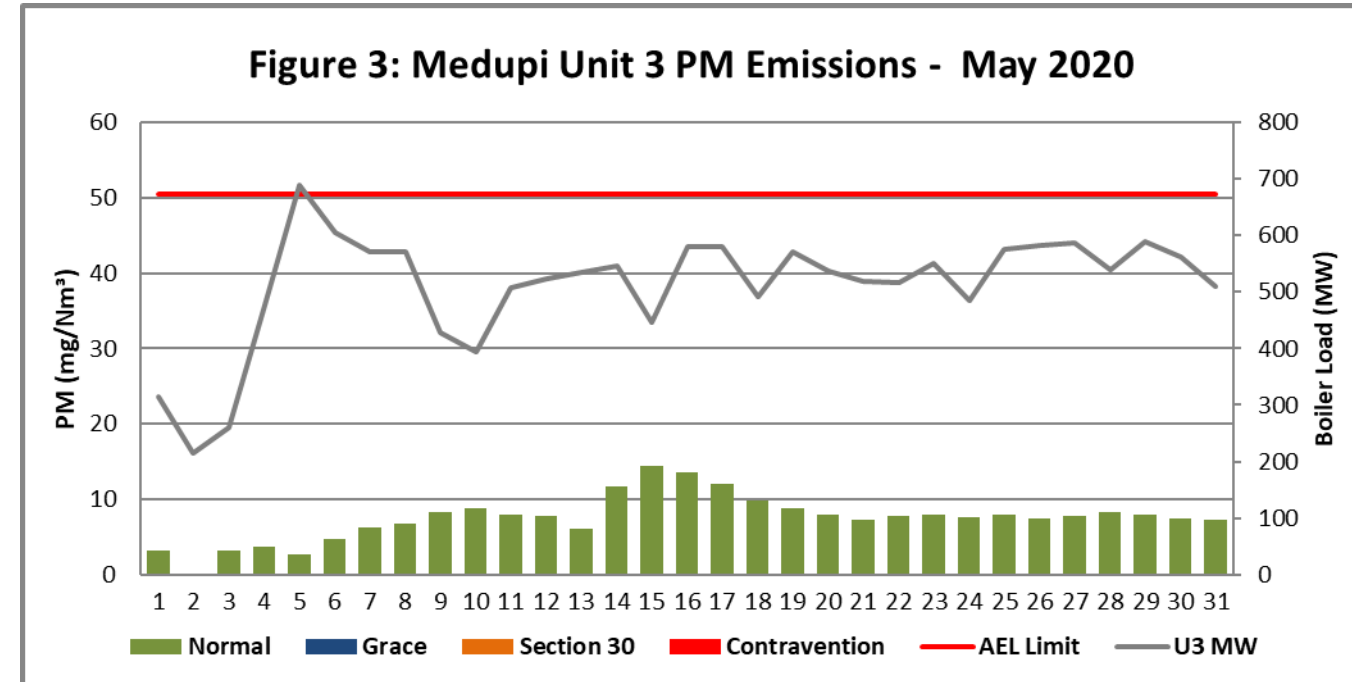
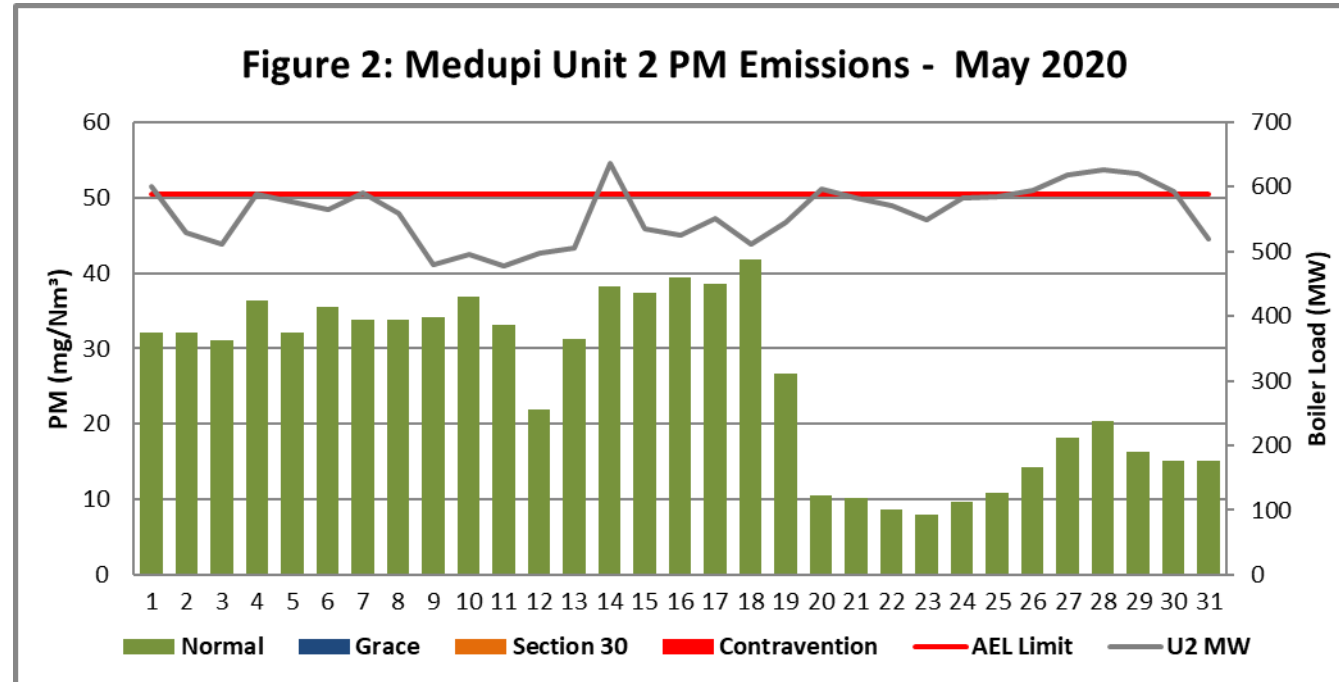
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Medupi Power Station graphical representation of emissions data



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Figure 8: Medupi Unit 2 SOx Emissions - May 2020

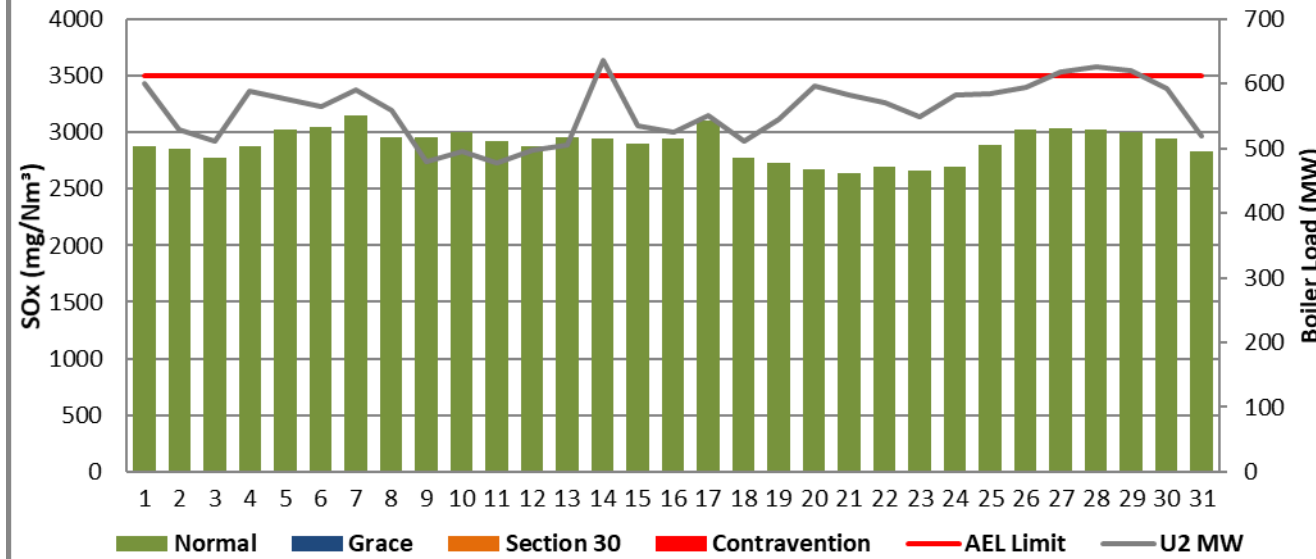


Figure 9: Medupi Unit 3 SOx Emissions - May 2020

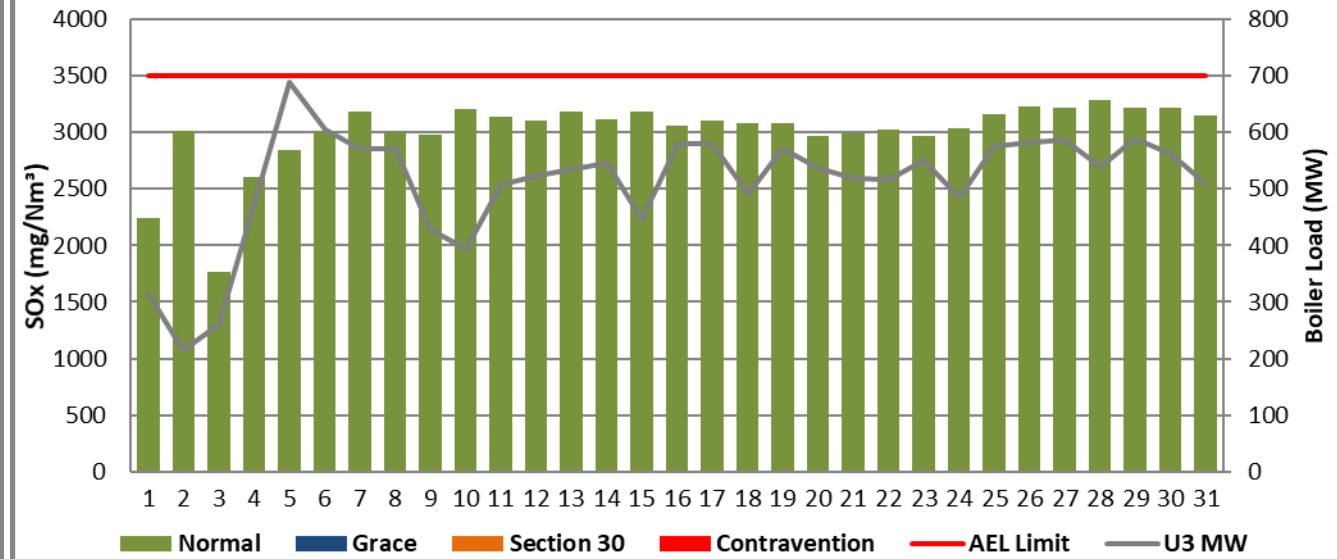


Figure 10: Medupi Unit 4 SOx Emissions - May 2020

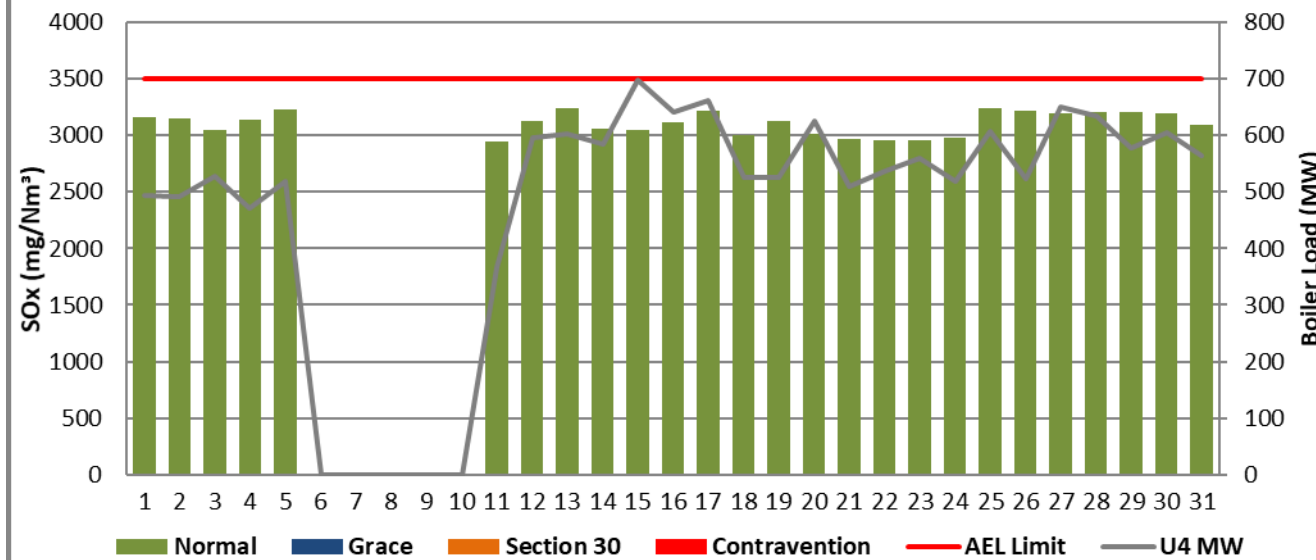
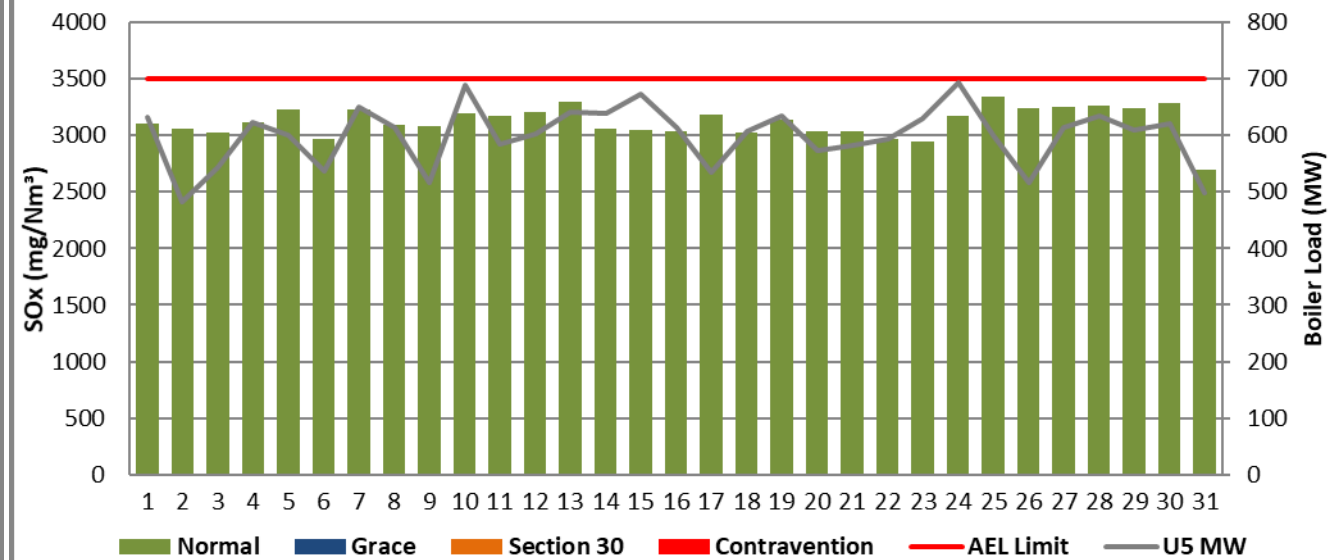


Figure 11: Medupi Unit 5 SOx Emissions - May 2020



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Figure 14: Medupi Unit 2 NOx Emissions - May 2020

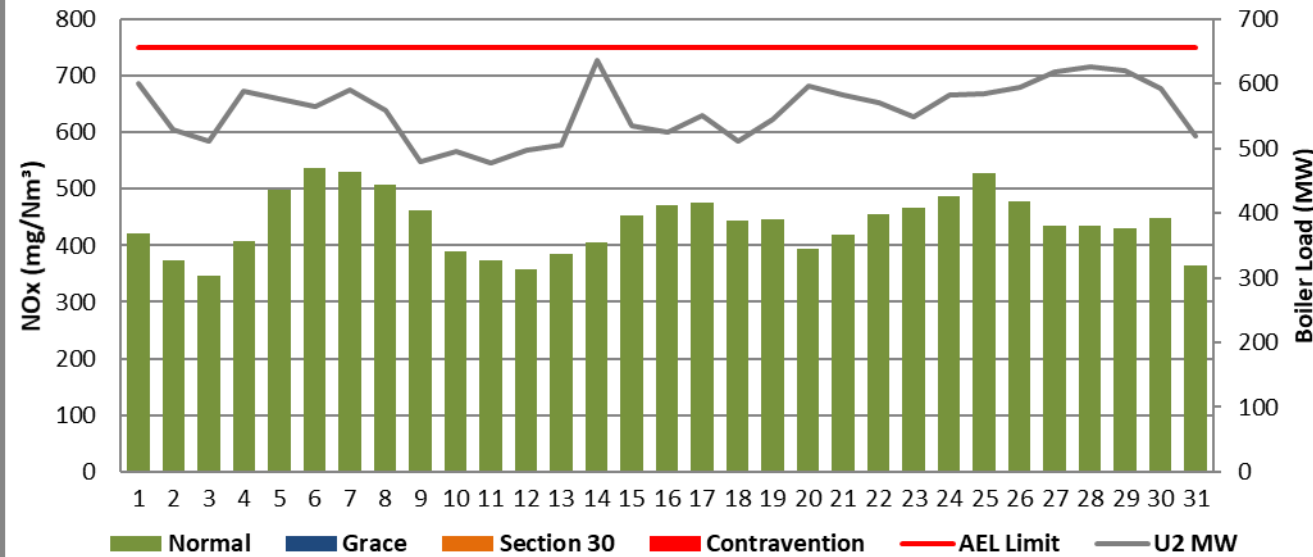


Figure 15: Medupi Unit 3 NOx Emissions - May 2020

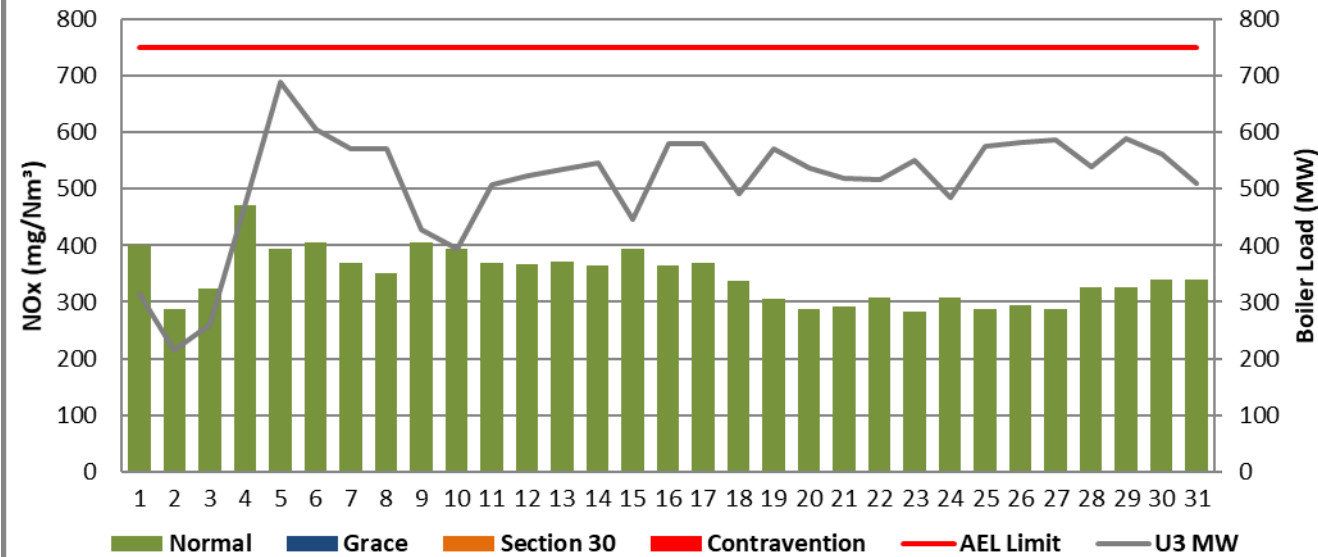


Figure 16: Medupi Unit 4 NOx Emissions - May 2020

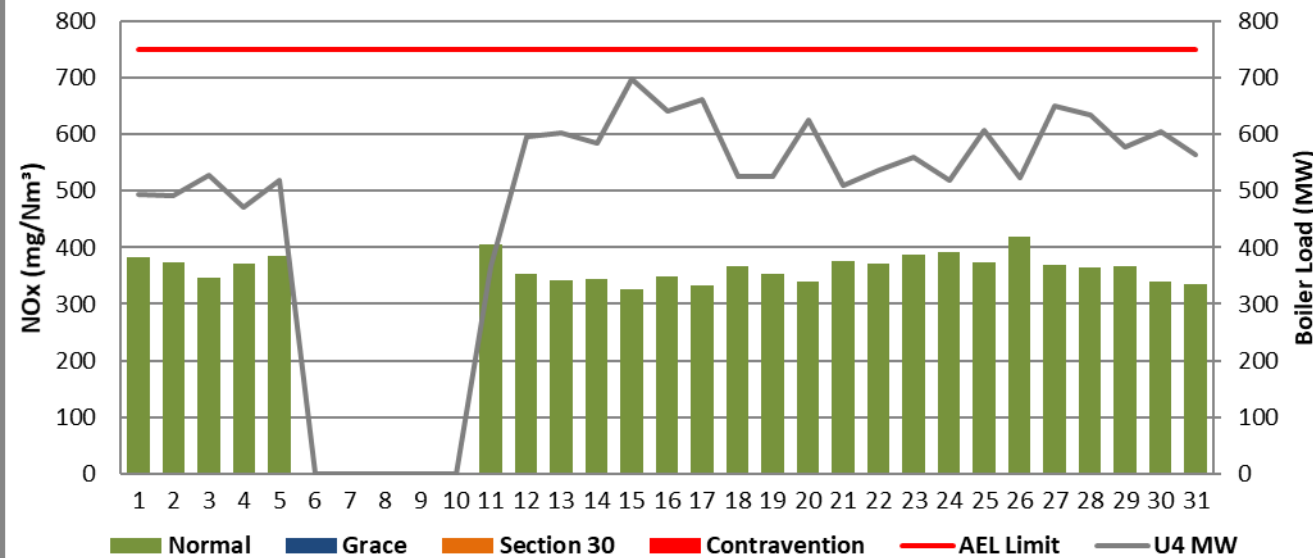
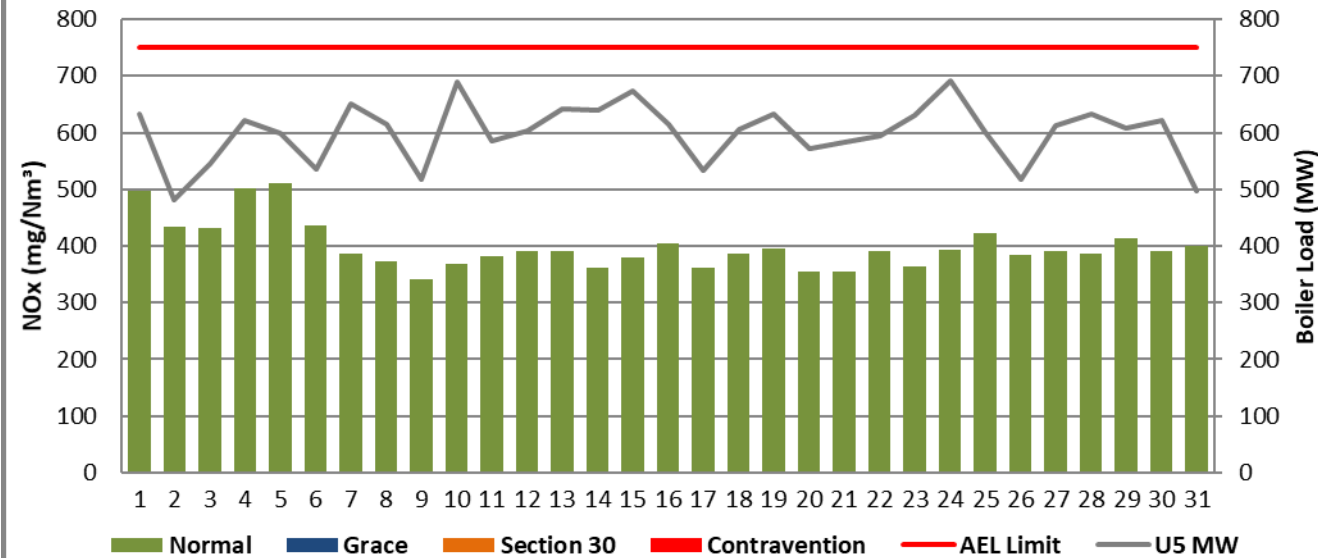


Figure 17: Medupi Unit 5 NOx Emissions - May 2020



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Table 5: Monthly tonnages for the month of May 2020

Associated Unit/Stack	PM	SO ₂	NO ₂	CO
Unit 1	-	-	-	-
Unit 2	47,4	5 333	811	33
Unit 3	7,6	2 972	340	13
Unit 4	61,6	4 879	563	59
Unit 5	85,6	6 279	803	46
Unit 6	0,0	0	0	0
SUM	202,2	19 463	2 517	151

5. Comments on the performance and availability of each unit

Gaseous emissions on all units were within the limit for May reporting period. Unit 2 and 3 PM emissions were within the limit throughout the reporting period. Exceedances due to upset conditions were evident on unit 4 and 5. Unit 6 was on bag replacement outage during the month of May 2020.

6. Continuous Emission Monitoring Systems (CEMS)

Unit 2, 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	Data for the reporting period is available

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Table 7: CEMS Monitor Reliability

Associated Unit/Stack	PM	SO ₂	NO _x	O ₂
Unit 2	100,0	99,9	99,9	99,9
Unit 3	99,9	89,3	99,3	88,1
Unit 4	99,9	99,8	99,8	99,6
Unit 5	100,0	99,9	95,6	99,9

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 and TVOC Estimation

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

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

		
CALCULATION OF EMISSIONS OF TOTAL VOLATILE COMPOUNDS FROM FUEL OIL STORAGE TANKS*		
Date:	31 May 2020	
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 THE STATION Please only insert relevant monthly data inputs into the <i>blue cells</i> below Choose from a dropdown menu in the <i>green cells</i> The total VOC emissions for the month are in the <i>red cells</i> IMPORTANT: Do not change <i>any</i> other cells without consulting the AQ CoE		
MONTH:	May	
GENERAL INFORMATION:	Data	Unit
Total number of fuel oil tanks:	2	NA
Height of tank:*	14.2	m
Diameter of tank:	12	m
Net fuel oil throughput for the month:	659	tons/month
Molecular weight of the fuel oil:	166.00	Lb/lb-mole
METEROLOGICAL DATA FOR THE MONTH	Data	Unit
Daily average ambient temperature	19.51	°C
Daily maximum ambient temperature	28.42	°C
Daily minimum ambient temperature	12.06	°C
Daily ambient temperature range	15.04	°C
Daily total insolation factor	3.91	kWh/m ² /day
Tank paint colour	Aluminum/Specular	NA
Tank paint solar absorbance	0.39	NA
FINAL OUTPUT:	Result	Unit
Breathing losses:	0.70 kg/month	
Working losses:	0.02 kg/month	
TOTAL LOSSES (Total TVOC Emissions for the month):	0.72 kg/month	
<small>*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 Engineers, 85-93 Chevy Chase Street, Jamaica, NY 11432 USA, Tel - 718-454-3920, Fax - 718-454-6330, e-mail - PeressJ@nyc.rr.com.</small>		

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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 May 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 Langa 
System Engineer Boiler


Supported by: Sithokozile Hlongwa 
Boiler Engineering Manager

Supported by: Rosetta Rammutla 
Environmental Manager

Supported by: Jabulani Mkhathshwa 
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



**Elemental
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Analysers Specialists

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PO Box 328, ISANDO, SA, 1600
VAT REG #: 421 021 2249
www.e-analytics.co.za

Tel: 0861 000 032
Intl. Tel: +27 11 918 6994
Fax: +27 11 894 1037
CO REG #: 2004/007607/07
info@e-analytics.co.za


CALIBRATION CERTIFICATE

		CERTIFICATE NO:	
		3416	
CUSTOMER:	Eskom Medupi	JOB NO:	SC1885
CONTACT NAME:	Lerato Sehume	PHONE:	078 012 9038
MODEL:	Dr Fodisch MGA 23	SERIAL NO:	13669
AUXILIARY EQUIPMENT:	Unit 8		


CHAN		PRIOR	FINAL	TEST GAS	TEST GAS VALUE	GAS CERTIFICATE NUMBER	EXPIRY DATE
1	ZERO	1 ppm	0 ppm	Air	21.0 %	Air	N/A
	SPAN	834 ppm	835 ppm	CO	834.6 ppm	3204	03-02-2021
2	ZERO	-2 ppm	0 ppm	Air	21.0 %	Air	N/A
	SPAN	908 ppm	877 ppm	NO	876.7 ppm	12598	21-01-2021
3	ZERO	-47 ppm	0 ppm	Air	21.0 %	Air	N/A
	SPAN	2584 ppm	2584 ppm	SO2	2161.7 ppm	5905E	15-05-2020
4	ZERO	0.03 %	0.0 %	N2	99.99 %	82410	31-08-2020
	SPAN	20.39 %	20.95 %	O2	20.95 %	Air	N/A

REPORT: SO2 cell diagnostics is low and cell module should be inspected. Inspect all sample lines, filters and rotameter. Calibrate analyser with zero and span gas, calibration was done according to cylinder standards, analyser was responding to all test gas.

Date of Calibration: 25 Feb 2020
Calibration Due Date: May 2020
Technician: J Faber



Bizler + Lang
SERVOMEX
A TRADE MARK REGISTERED
Document Number: TH-PFC-002-F1 Rev 2





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ANALYTICAL INSTRUMENTS
A Teledyne Technologies Company

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Tel: 0861 000 032
Intl. Tel: +27 11 918 6994
Fax: +27 11 894 1037
CO REG #: 2004/007607/07
info@e-analytics.co.za

CALIBRATION CERTIFICATE

				CERTIFICATE NO:			
				3415			
CUSTOMER:	Eskom Medupi			JOB NO:	SC1865		
CONTACT NAME:	Lerato Sehume			PHONE:	078 012 9038		
MODEL:	Dr Fodisch MGA 23			SERIAL NO:	13670		
AUXILIARY EQUIPMENT:	Unit 5						


CHAN		PRIOR	FINAL	TEST GAS	TEST GAS VALUE	GAS CERTIFICATE NUMBER	EXPIRY DATE
1	ZERO	3 ppm	0 ppm	Air	21.0 %	Air	N/A
	SPAN	856 ppm	835 ppm	CO	834.6 ppm	3204	03-02-2021
2	ZERO	0 ppm	0 ppm	Air	21.0 %	Air	N/A
	SPAN	944 ppm	877 ppm	NO	876.7 ppm	12598	21-01-2021
3	ZERO	-19 ppm	0 ppm	Air	21.0 %	Air	N/A
	SPAN	2262 ppm	2262 ppm	SO2	2161.7 ppm	5905E	15-05-2020
4	ZERO	0.06 %	0.0 %	N2	99.99 %	82410	31-08-2020
	SPAN	20.69 %	20.95 %	O2	20.95 %	Air	N/A


REPORT: *SO2 cell diagnostics is low and cell module should be inspected. Inspect all sample lines, filters and rotameter. Calibrate analyser with zero and span gas, calibration was done according to cylinder standards, analyser was responding to all test gas.*


Date of Calibration: 25 Feb 2020

Calibration Due Date: May 2020


Technician: J Faber







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





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CO REG #: 2004/007607/07
info@e-analytics.co.za



CALIBRATION CERTIFICATE



CERTIFICATE NO:					
3414					
CUSTOMER:	Eskom Medupi	JOB NO:	SC1665		
CONTACT NAME:	Lerato Sehume	PHONE:	078 012 9038		
MODEL:	Dr Fodisch MGA 23	SERIAL NO:	13668		
AUXILIARY EQUIPMENT:	Unit 4				

CHAN		PRIOR	FINAL	TEST GAS	TEST GAS VALUE	GAS CERTIFICATE NUMBER	EXPIRY DATE
1	ZERO	1 ppm	0 ppm	Air	21.0 %	Air	N/A
	SPAN	846 ppm	835 ppm	CO	834.6 ppm	3204	03-02-2021
2	ZERO	-1 ppm	0 ppm	Air	21.0 %	Air	N/A
	SPAN	920 ppm	877 ppm	NO	876.7 ppm	12598	21-01-2021
3	ZERO	-31 ppm	0 ppm	Air	21.0 %	Air	N/A
	SPAN	2384 ppm	2384 ppm	SO2	2161.7 ppm	5905E	15-05-2020
4	ZERO	0.07 %	0.0 %	N2	99.99 %	82410	31-08-2020
	SPAN	21.15 %	20.95 %	O2	20.95 %	Air	N/A

REPORT: *SO2 cell diagnostics is low and cell module should be inspected. Inspect all sample lines, filters and rotameter. Calibrate analyser with zero and span gas, calibration was done according to cylinder standards, analyser was responding to all test gas.*

Date of Calibration: 25 Feb 2020
Calibration Due Date: May 2020
Technician: J Faber




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




A Teledyne Technologies Company

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CALIBRATION CERTIFICATE

CERTIFICATE NO:
3412

CUSTOMER:	Eskom Medupi	JOB NO:	SC1865
CONTACT NAME:	Lerato Sehume	PHONE:	078 012 9038
MODEL:	Dr Fodisch MGA 23	SERIAL NO:	15711
AUXILIARY EQUIPMENT:	Unit 2		


CHAN		PRIOR	FINAL	TEST GAS	TEST GAS VALUE	GAS CERTIFICATE NUMBER	EXPIRY DATE
1	ZERO	-2 ppm	0 ppm	Air	21.0 %	Air	N/A
	SPAN	839 ppm	835 ppm	CO	834.6 ppm	3204	03-02-2021
2	ZERO	-4 ppm	0 ppm	Air	21.0 %	Air	N/A
	SPAN	856 ppm	877 ppm	NO	876.7 ppm	12598	21-01-2021
3	ZERO	-38 ppm	0 ppm	Air	21.0 %	Air	N/A
	SPAN	2220 ppm	2220 ppm	SO2	2161.7 ppm	5905E	15-05-2020
4	ZERO	0.14 %	0.0 %	N2	99.99 %	82410	31-08-2020
	SPAN	21.11 %	20.95 %	O2	20.95 %	Air	N/A


REPORT: SO2 cell diagnostics is low and cell module should be replaced in future. Inspect all sample lines, filters and rotameter. Calibrate analyser with zero and span gas, calibration was done according to cylinder standards, analyser was responding to all test gas.

Date of Calibration: 25 Feb 2020


Calibration Due Date: May 2020

Technician: J Faber





SERVOMEX
A HANNA INSTRUMENTS COMPANY
Document Number: TH-PFC-002-F1 Rev 2



TELEDYNE ANALYTICAL INSTRUMENTS
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