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		Effective Date	January 2018		
		Review Date	January 2022		

Phumudzo Thivhafuni

Date: 2021/07/15

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 – Jan 2020 Rev1

Dear Phumudzo

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

This document serves as a revised 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 January 2020 only.

1. Raw Materials and Products

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

Raw Materials and Products used	Raw Material Type	Unit	Maximum Permitted Consumption/ Rate (Quantity)	Unit 2,3, 4, 5 and 6 consumption January 2020
	Coal	Tons/month	1 875 000	660 960
	Fuel Oil	Tons/month	40 000	3517
Production Rates	Product/ By-Product Name	Unit	Maximum Production Capacity Permitted (Quantity)	Unit 2, 3, 4, 5 and 6 Production Rate in Month of January 2020
	Energy	MW	4 800	2867.9
	Ash Emitted	Tons/month	not specified	228.6

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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- Jan -20	16.3	24.0	24.0	24.0	24.0	0	6	6	32742	3029.5
02- Jan -20	0.0	24.0	24.0	24.0	24.0	0	1	1	31796	2877.3
03- Jan -20	23.1	24.0	24.0	24.0	24.0	0	0	0	31134	2682.2
04- Jan -20	24.0	24.0	24.0	24.0	24.0	0	255	255	27079	2530.0
05- Jan -20	24.0	24.0	24.0	24.0	24.0	0	97	97	26131	3008.9
06- Jan -20	24.0	24.0	24.0	24.0	24.0	0	86	86	31057	3054.3
07- Jan -20	24.0	24.0	24.0	24.0	24.0	0	15	15	31266	3020.1
07- Jan -20	24.0	24.0	23.9	24.0	24.0	0	33	33	29830	2867.6
09- Jan -20	24.0	24.0	0.0	24.0	24.0	0	57	57	30423	2437.3
10- Jan -20	5.9	24.0	0.0	24.0	24.0	0	103	103	22673	2818.7
11- Jan -20	1.7	24.0	21.8	24.0	24.0	0	397	397	26889	2543.5
12- Jan -20	0.0	24.0	24.0	24.0	24.0	0	242	242	27113	2642.1
13- Jan -20	22.2	24.0	24.0	24.0	24.0	0	52	52	28297	2655.7
14- Jan -20	24.0	24.0	24.0	10.2	24.0	0	87	87	28945	2958.7
15- Jan -20	24.0	24.0	24.0	4.3	24.0	0	140	140	29764	3272.2
16- Jan -20	1.8	24.0	24.0	24.0	24.0	0	13	13	34311	2827.0
17- Jan -20	4.1	24.0	24.0	24.0	24.0	0	254	254	26517	3140.2
18- Jan -20	24.0	24.0	24.0	24.0	24.0	0	44	44	33420	2822.8
19- Jan -20	24.0	24.0	24.0	24.0	24.0	0	61	61	29998	3010.1
20- Jan -20	24.0	24.0	24.0	24.0	24.0	0	83	83	30238	2603.1
21- Jan -20	24.0	24.0	24.0	24.0	24.0	0	285	285	27608	2477.0
22- Jan -20	24.0	8.4	23.3	24.0	24.0	0	289	289	26818	2727.5
23- Jan -20	24.0	4.8	0.0	24.0	24.0	0	253	253	28178	2620.9
24- Jan -20	24.0	24.0	0.0	24.0	24.0	0	47	47	28162	2340.2
25- Jan -20	24.0	24.0	0.0	24.0	23.5	0	166	166	25365	2792.4
26- Jan -20	24.0	0.0	19.3	24.0	0.0	0	132	132	28953	1817.2
27- Jan -20	24.0	0.0	24.0	24.0	0.0	0	19	19	19325	2077.3
28- Jan -20	24.0	0.0	24.0	24.0	4.8	0	178	178	21156	2417.0
29- Jan -20	24.0	0.0	24.0	24.0	24.0	0	45	45	25650	2403.1
30- Jan -20	24.0	0.0	24.0	24.0	24.0	0	11	11	25522	2354.3
31- Jan -20	24.0	0.0	24.0	24.0	24.0	0	20	20	25054	2366.7

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2. Abatement Technology

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

Associated Unit/Stack	Technology Type	Efficiency
Unit 1	<i>Fabric Filter Plant (FFP)</i>	-
Unit 2	<i>Fabric Filter Plant (FFP)</i>	99.954%
Unit 3	<i>Fabric Filter Plant (FFP)</i>	99.897%
Unit 4	<i>Fabric Filter Plant (FFP)</i>	99.913%
Unit 5	<i>Fabric Filter Plant (FFP)</i>	99.896%
Unit 6	<i>Fabric Filter Plant (FFP)</i>	99.693%

3. Energy Source Characteristics

Table 4: Energy Source Material Characteristics for the month of January 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	2.08
Ash Content	35 - 39	33.2

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

Characteristic	Stipulated Range (%)	Monthly Average Content (%)
Oil		
Sulphur Content	0.5 - 3.5	2.4
Ash Content	0.02 - 0.1	0.011

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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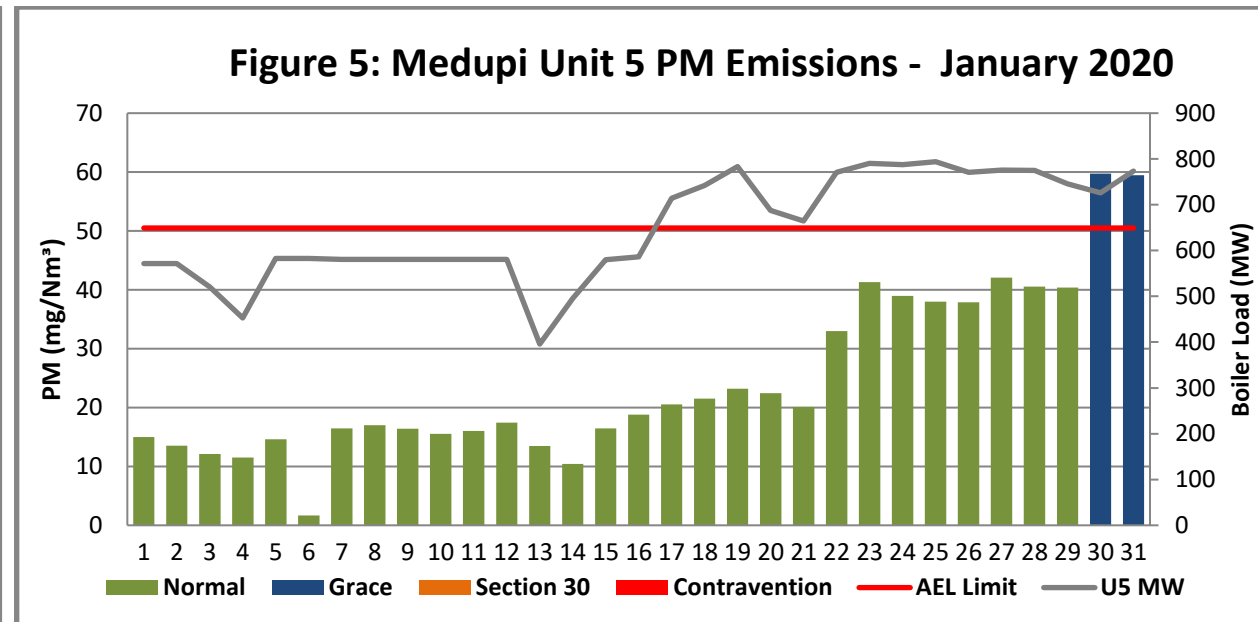
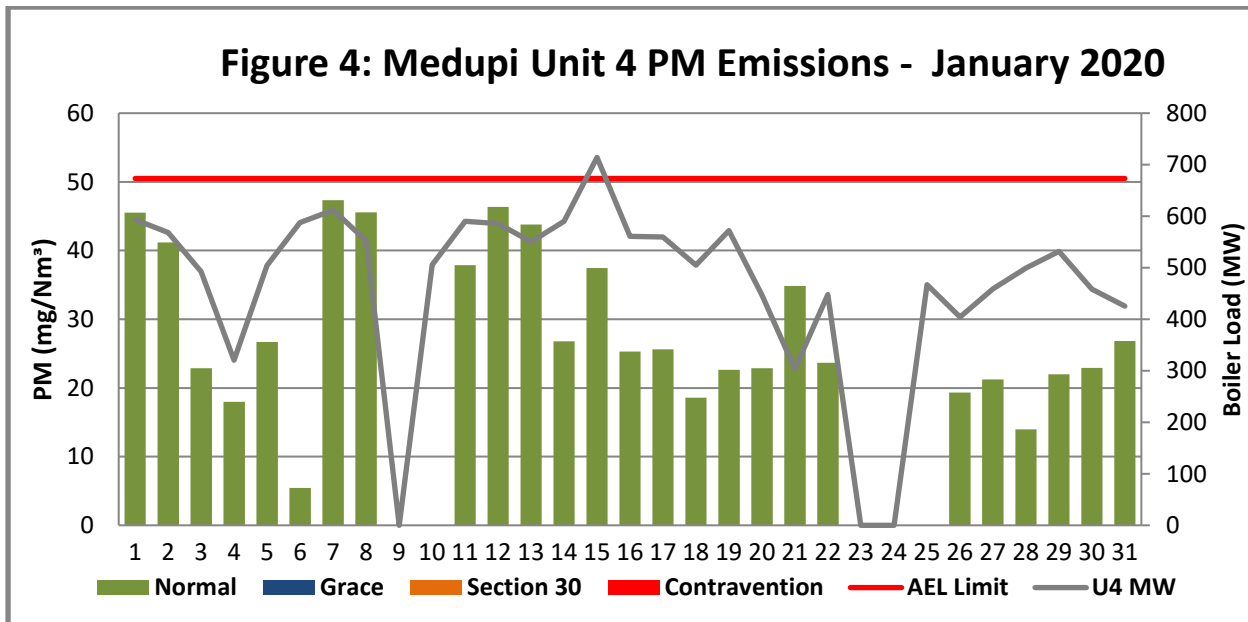
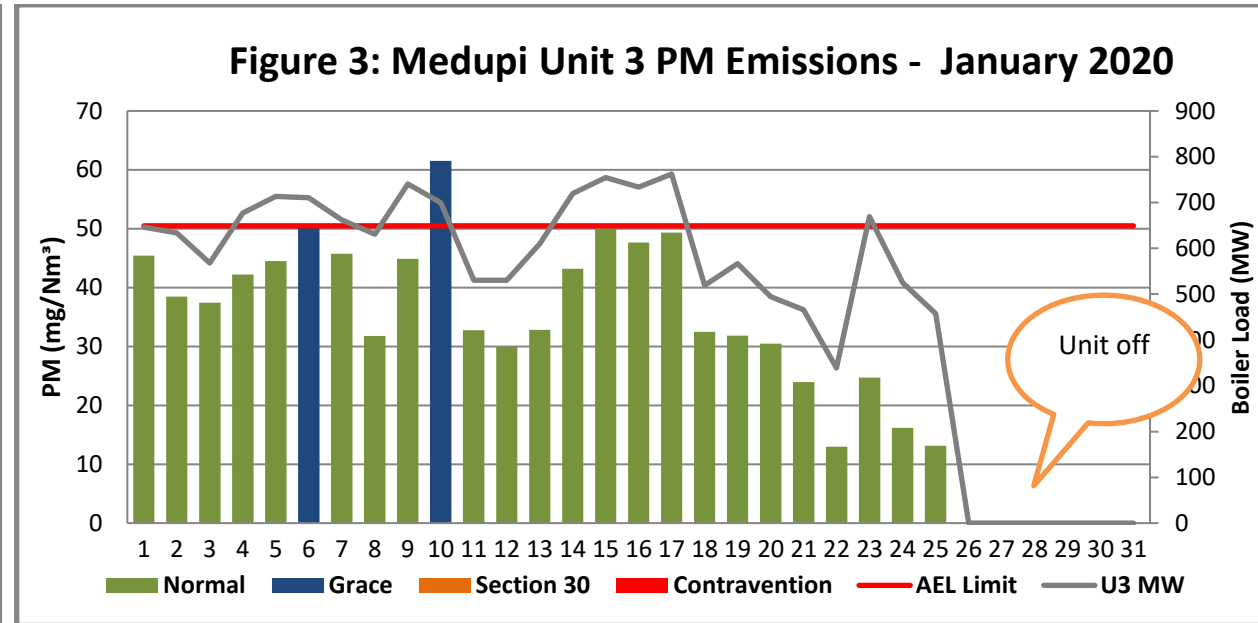
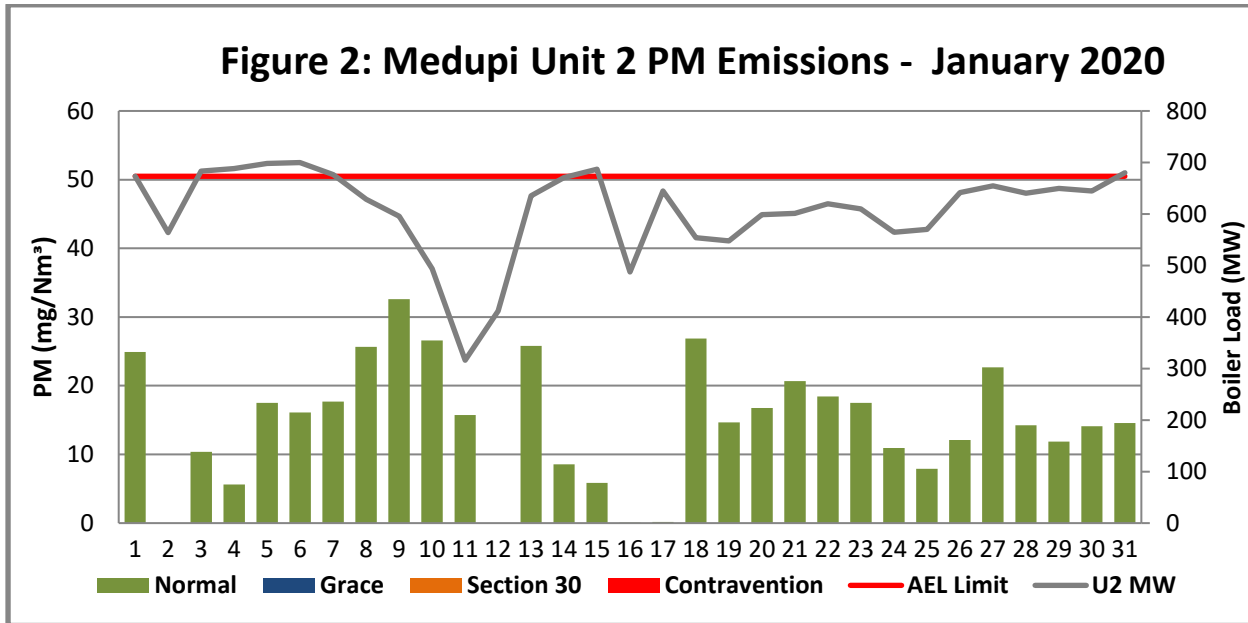
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Figure 6: Medupi Unit 6 PM Emissions - January 2020

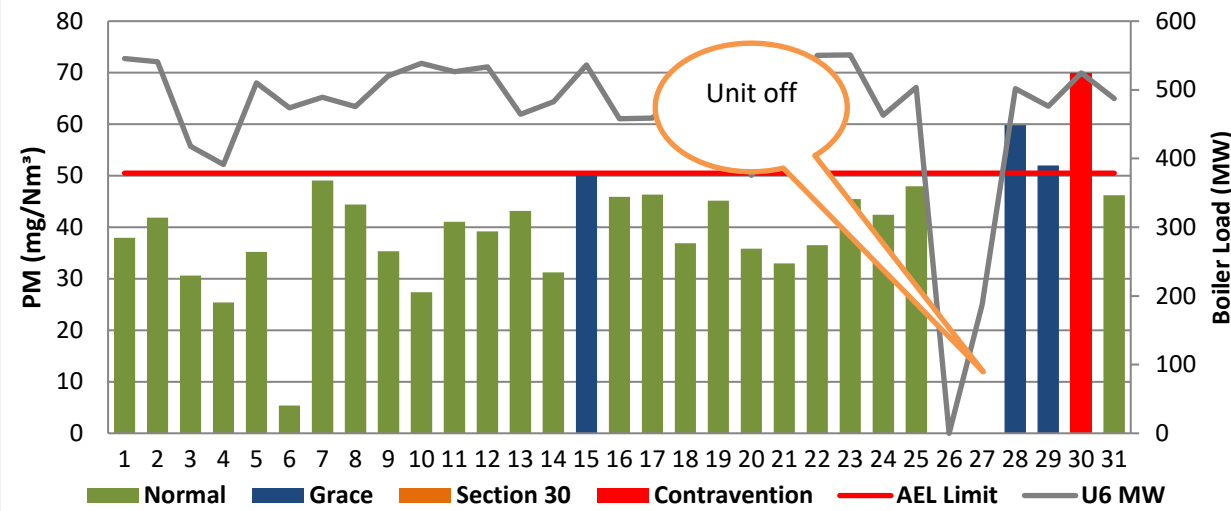


Figure 8: Medupi Unit 2 SOx Emissions - January 2020

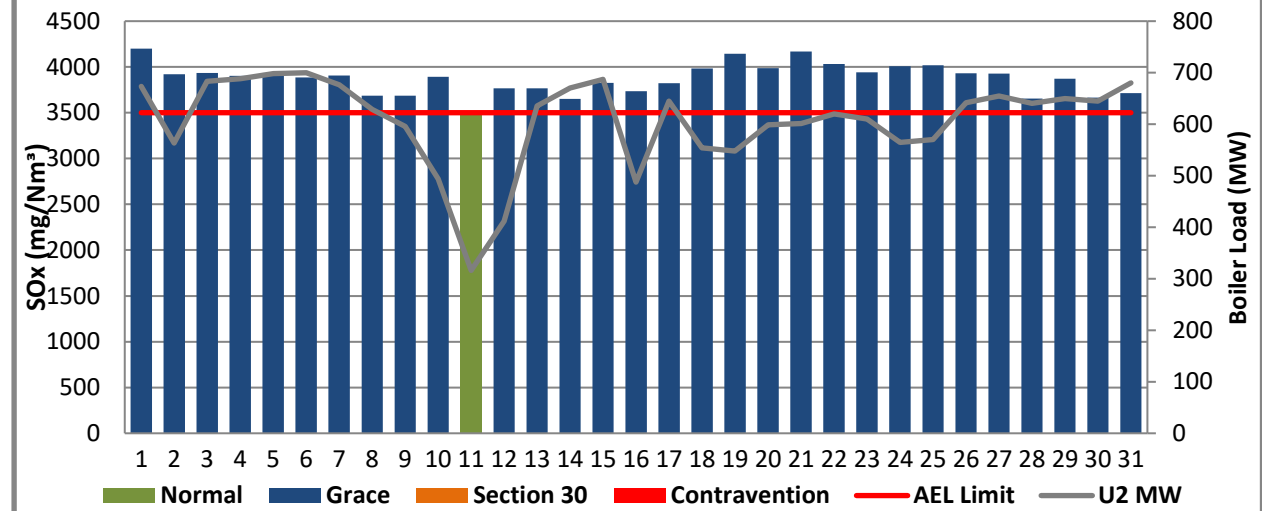


Figure 9: Medupi Unit 3 SOx Emissions - January 2020

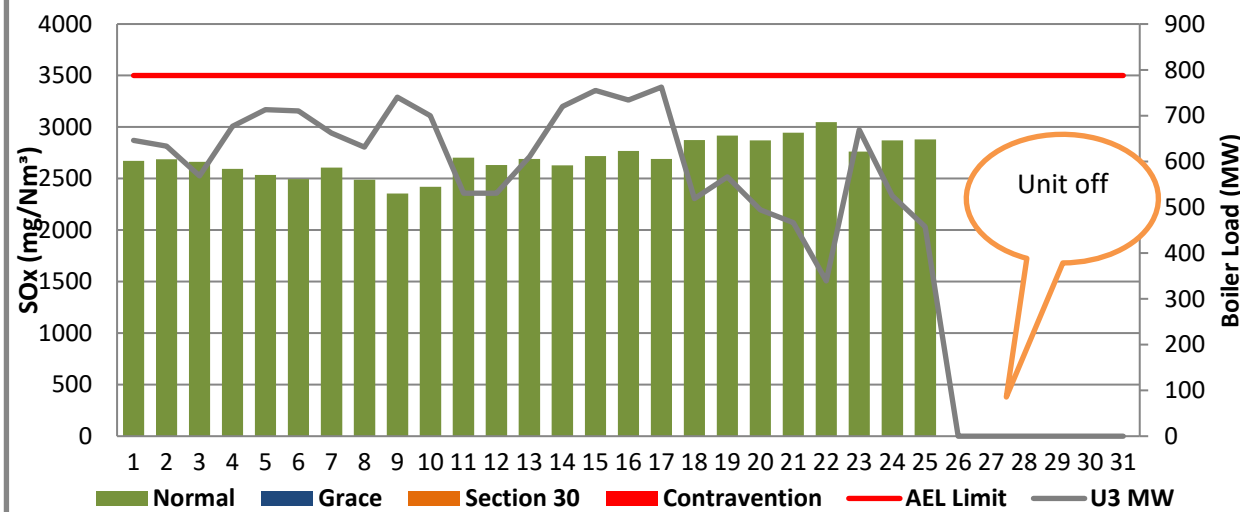
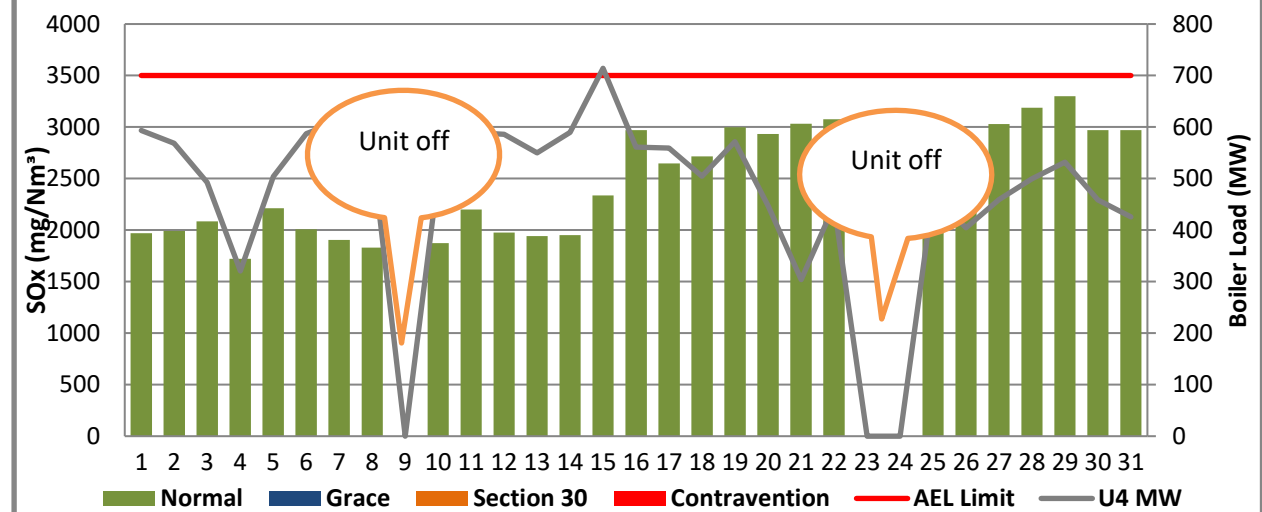


Figure 10: Medupi Unit 4 SOx Emissions - January 2020



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Figure 11: Medupi Unit 5 SOx Emissions - January 2020

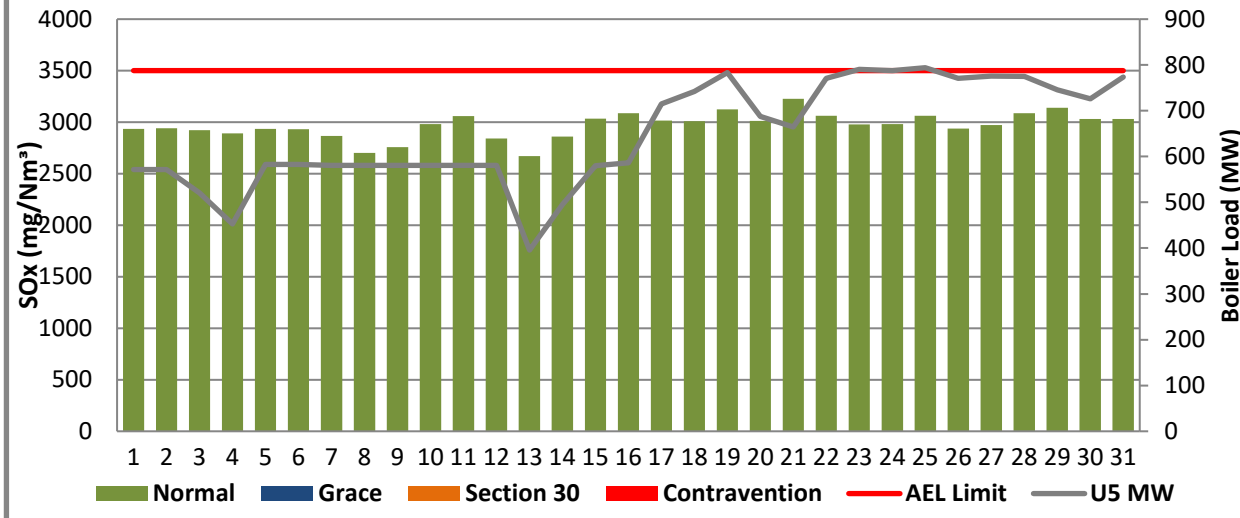


Figure 12: Medupi Unit 6 SOx Emissions - January 2020

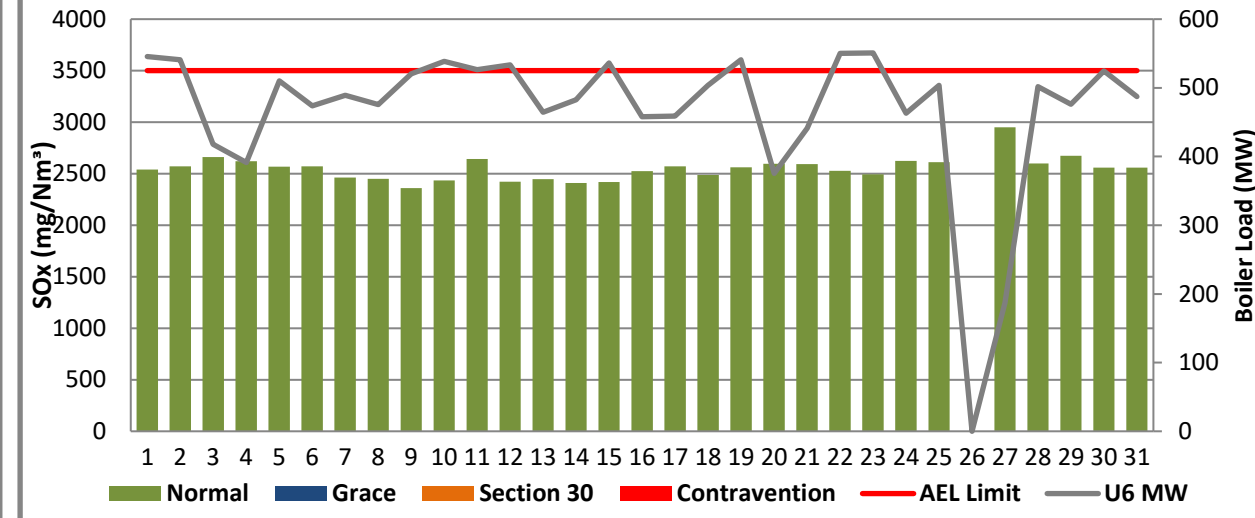


Figure 14: Medupi Unit 2 NOx Emissions - January 2020

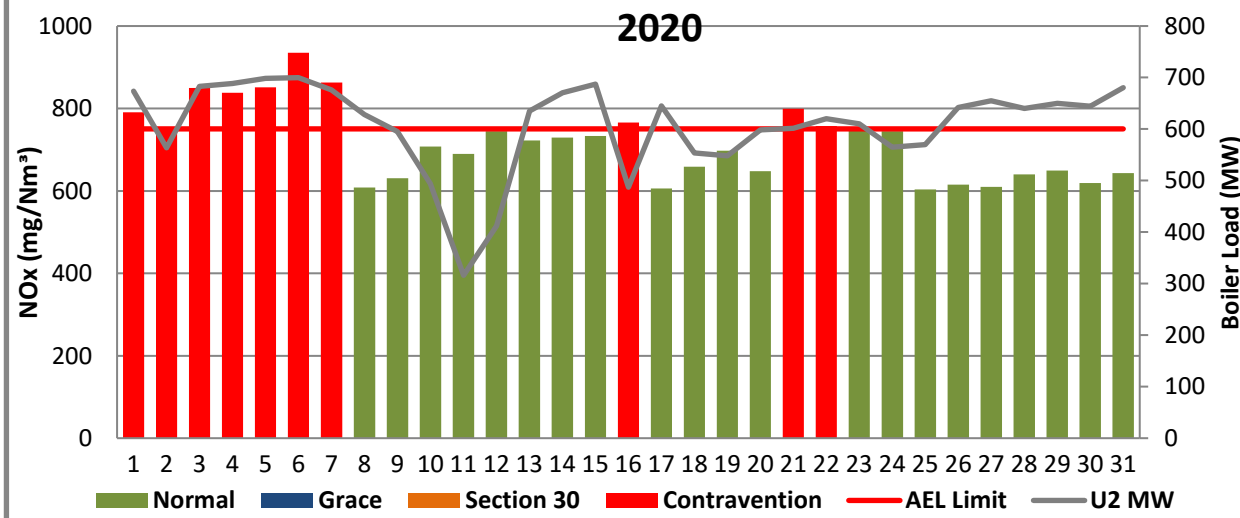
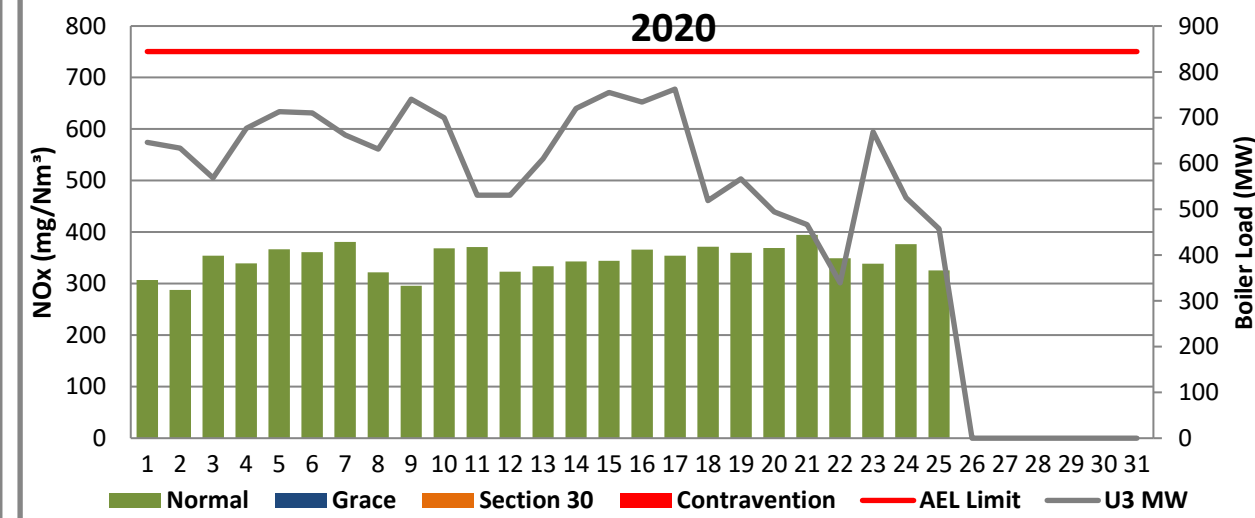


Figure 15: Medupi Unit 3 NOx Emissions - January 2020

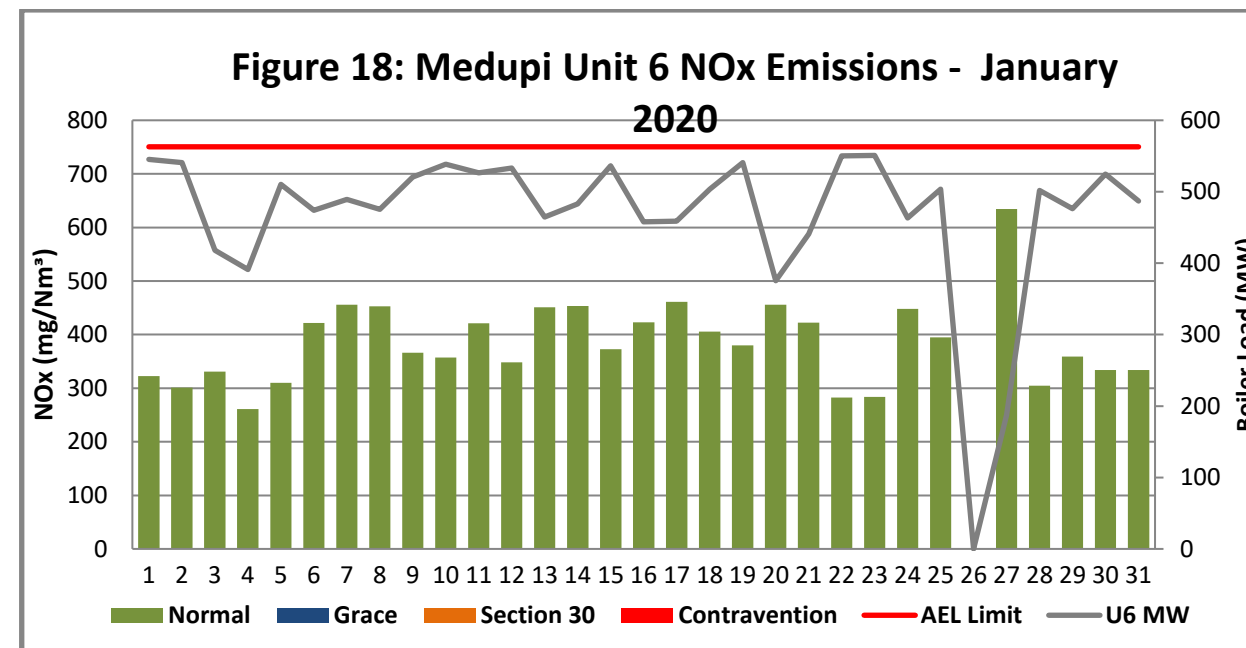
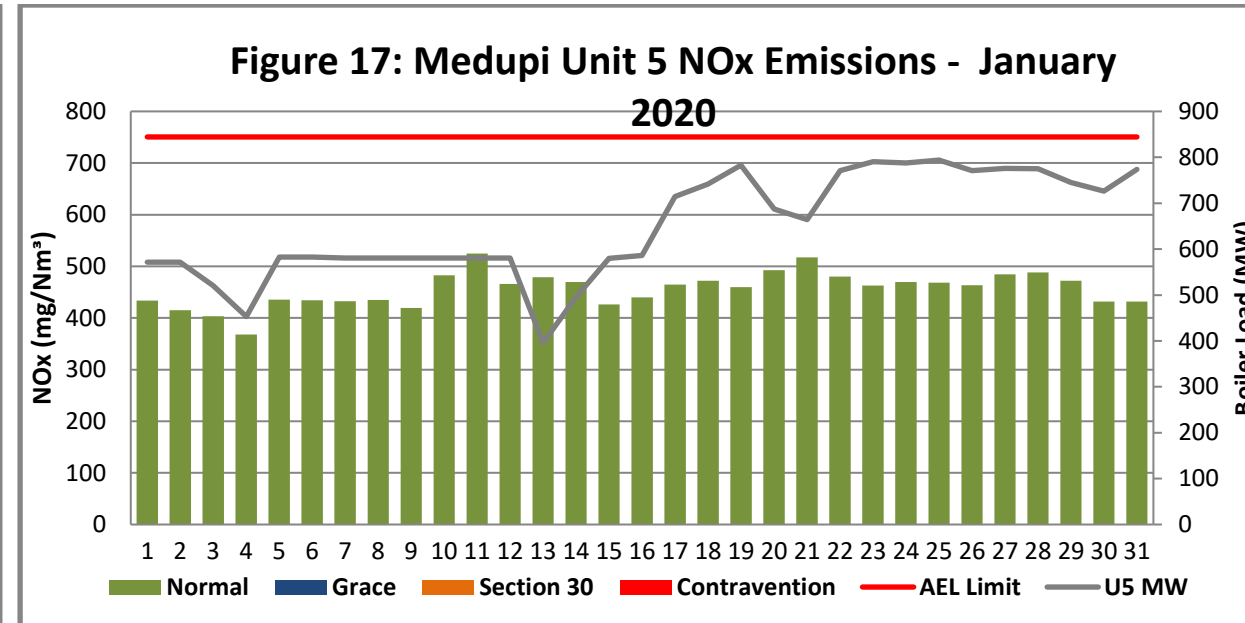
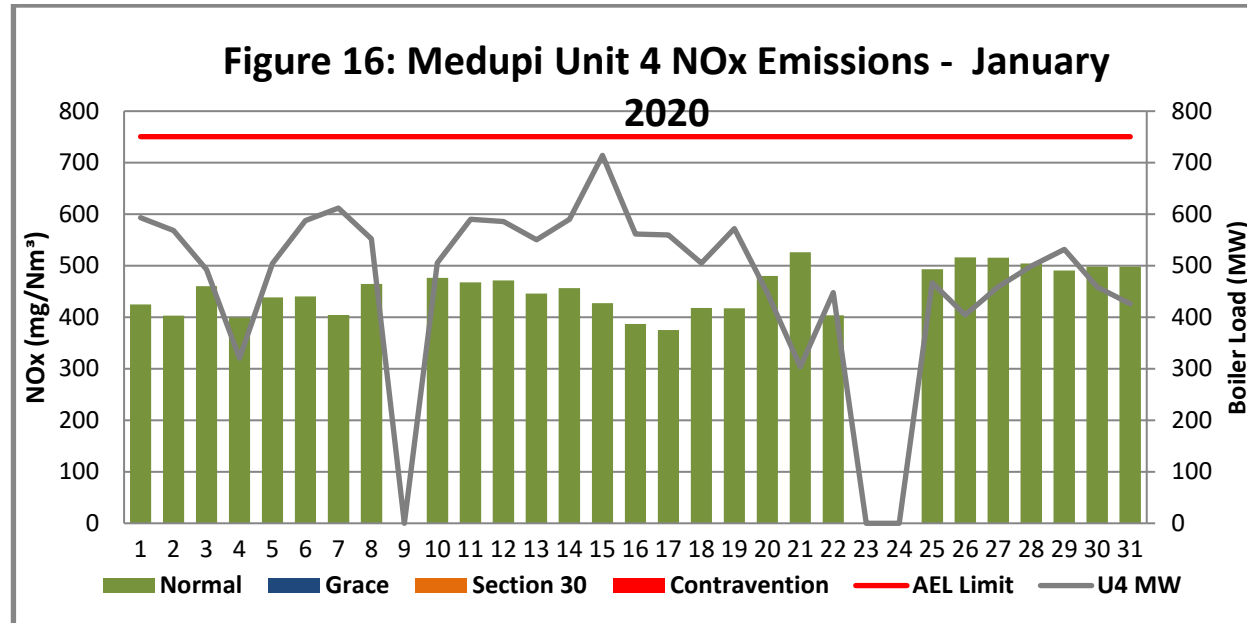


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Table 6: Monthly tonnages for the month of January 2020

Unit	PM (tons)	SO ₂ (tons)	NO ₂ (tons)	CO (tons)
1	-	-	-	-
2	27.7	7 008	1 296	108
3	52.2	3 714	482	49
4	37.9	3 998	763	36
5	60.7	8 572	1 306	30
6	57.3	4 596	696	57
SUM	235.8	27 888	4 542	280

5. Comments on the performance and availability of each unit

NO_x exceeded the limit 10 times on unit 2, Unit 6 PM emissions exceeded the limit on 4 occasions as reflected on the Unit 6 graph above. Unit 2 exceeded SO₂ the Monthly emissions limit of 3500mg/Nm³, this is due to high sulphur content in the coal. Unit 3 and 5 exceeded the limit on two occasions, particulate emissions are associated with .damaged bags in the PJFF Plant.

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.

CEMS CO₂ monitor verification test not yet conducted on all Units as a result of challenges on the equipment, the Power Station received the spares new spares and has started with the process of replacement.

Table 7: 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 8: CEMS Monitor Reliability

Associated Unit/Stack	PM	SO ₂	NO	O ₂
Unit 1	-	-	-	-
Unit 2	99.6	99.6	98.0	98.2
Unit 3	100.0	99.9	99.9	99.9
Unit 4	99.5	95.0	96.8	94.4
Unit 5	99.6	99.3	99.3	99.3
Unit 6	99.6	99.2	99.2	99.2

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 9: Total Volatile Organic Compound (TVOC) for January 2020

FINAL OUTPUT:	Result	Unit
Breathing losses:	0.74 kg/month	
Working losses:	0.10 kg/month	
<i>TOTAL LOSSES (Total TVOC Emissions for the month):</i>	0.84 kg/month	

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

No awareness campaign.

11. Complaints Register


Table 10: Complaints for the month of January 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 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



**Elemental
Analytics**
Analysers. Specialists.

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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:	
				3316	
CUSTOMER:	Medupi Power Station	JOB NO:	SC1593		
CONTACT NAME:	Christo Vorster	PHONE:	014 762 2255		
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	-4 ppm	0 ppm	Air	21.0 %	Air	
	SPAN	807 ppm	804 ppm	CO	803.9 ppm	80A	
2	ZERO	-3 ppm	0 ppm	Air	21.0 %	Air	
	SPAN	819 ppm	851 ppm	NO	850.9 ppm	132	
3	ZERO	-13 ppm	0 ppm	Air	21.0 %	Air	
	SPAN	2199 ppm	2162 ppm	SO2	2161.7 ppm	5905E	
4	ZERO	0.09 %	0.0 %	N2	99.99 %	132	
	SPAN	21.03 %	20.95 %	O2	20.95 %	Air	

REPORT: *Wash and clean rotameter, change inlet plastic fitting, inlet filter in analyser should be change. Inspect all sample lines and rotameter. Calibrate analysers with zero and span gas, calibration was done according to cylinder standards, analysers were responding to all test gas.*

Date of Calibration: 26 Nov 2019
Calibration Due Date: Feb 2020
Technician: J Faber



Biotar + Lang
SERVOMEX
Document Number: TH-PFC-002-F1 Rev 2





TELEDYNE ANALYTICAL INSTRUMENTS
A Teledyne Technologies Company

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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:		
				3317		
CUSTOMER:	Medupi Power Station	JOB NO:	SC1593	PHONE:	014 762 2255	
CONTACT NAME:	Christo Vorster	SERIAL NO:	13670	AUXILIARY EQUIPMENT:	Unit 5	
MODEL:	Dr Fodisch MGA 23					

CHAN	PRIOR	FINAL	TEST GAS	TEST GAS VALUE	GAS CERTIFICATE NUMBER	EXPIRY DATE
1	ZERO	1 ppm	0 ppm	Air	21.0 %	Air
	SPAN	761 ppm	804 ppm	CO	803.9 ppm	80A
2	ZERO	-3 ppm	0 ppm	Air	21.0 %	Air
	SPAN	815 ppm	851 ppm	NO	850.9 ppm	132
3	ZERO	-17 ppm	0 ppm	Air	21.0 %	Air
	SPAN	2206 ppm	2162 ppm	SO2	2161.7 ppm	5905E
4	ZERO	-0.08 %	0.0 %	N2	99.99 %	132
	SPAN	20.85 %	20.95 %	O2	20.95 %	Air


REPORT: *Inspect all sample lines and rotameter. Calibrate analysers with zero and span gas, calibration was done according to cylinder standards, analysers were responding to all test gas.*

Date of Calibration: 26 Nov 2019
Calibration Due Date: Feb 2020
Technician: J Faber





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A Teledyne Technologies Company
Document Number: TH-PFC-002-F1 Rev 2





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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:			
3318			
CUSTOMER:	Medupi Power Station	JOB NO:	SC1593
CONTACT NAME:	Christo Vorster	PHONE:	014 762 2255
MODEL:	Dr Fodisch MGA 23	SERIAL NO:	13669
AUXILIARY EQUIPMENT:	Unit 6		

CHAN	PRIOR	FINAL	TEST GAS	TEST GAS VALUE	GAS CERTIFICATE NUMBER	EXPIRY DATE
1	ZERO	-3 ppm	0 ppm	Air	21.0 %	Air
	SPAN	817 ppm	804 ppm	CO	803.9 ppm	80A
2	ZERO	-11 ppm	0 ppm	Air	21.0 %	Air
	SPAN	883 ppm	851 ppm	NO	850.9 ppm	132
3	ZERO	-35 ppm	0 ppm	Air	21.0 %	Air
	SPAN	2265 ppm	2162 ppm	SO2	2161.7 ppm	5905E
4	ZERO	0.03 %	0.0 %	N2	99.99 %	132
	SPAN	20.59 %	20.95 %	O2	20.95 %	Air


REPORT: *Inspect all sample lines and rotameter. Calibrate analysers with zero and span gas, calibration was done according to cylinder standards, analysers were responding to all test gas.*

Date of Calibration: 26 Nov 2019
Calibration Due Date: Feb 2020
Technician: J Faber





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A MEASUREMENT KNOWLEDGE
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CALIBRATION CERTIFICATE

		CERTIFICATE NO:	
		3315	
CUSTOMER:	Medupi Power Station	JOB NO:	SC1593
CONTACT NAME:	Christo Vorster	PHONE:	014 762 2255
MODEL:	Dr Fodisch MGA 23	SERIAL NO:	15712
AUXILIARY EQUIPMENT:	Unit 3		


CHAN	PRIOR	FINAL	TEST GAS	TEST GAS VALUE	GAS CERTIFICATE NUMBER	EXPIRY DATE
1	ZERO	8 ppm	Air	21.0 %	Air	
	SPAN	802 ppm	CO	803.9 ppm	80A	
2	ZERO	16 ppm	Air	21.0 %	Air	
	SPAN	849 ppm	NO	850.9 ppm	132	
3	ZERO	23 ppm	Air	21.0 %	Air	
	SPAN	2227 ppm	SO2	2161.7 ppm	5905E	
4	ZERO	0.05 %	N2	99.99 %	132	
	SPAN	21.23 %	O2	20.95 %	Air	


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