

	Medupi Power Station Monthly Emissions Reporting Form	Document No.	240-88543153
		Template No.	
		Revision	1
		No. of pages	14

Phumudzo Thivhafuni

Date: 2018/03/31

Limpopo Dept. of Economic Development, Environment and Tourism

Enquiries:

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Ref: 12/4/12L-W2/A3 – Feb 2018

Dear Phumudzo

MEDUPI POWER STATION MONTHLY EMISSIONS REPORT FOR THE MONTH OF FEBRUARY 2018

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 4, 5 and 6 gaseous and particulate emissions performance against the AEL limit for the month of February 2018 only.

1. Raw Materials and Products

Table 1: Quantity of raw materials and products used/produced for Unit 4, 5 and 6 in February 2018

Raw Materials and Products used	Raw Material Type	Unit	Maximum Permitted Consumption/ Rate (Quantity)	Unit 4, 5 and 6 consumption February 2018
	Coal	Tons/month	1 875 000	525535
	Fuel Oil	Tons/month	40 000	894.33
Production Rates	Product/ By-Product Name	Unit	Maximum Production Capacity Permitted (Quantity)	Unit 4, 5 and 6 Production Rate in Month of February 2018
	Energy	MW	4800	2025
	Ash Emitted	Tons/month	not specified	183.0

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	Medupi Power Station Monthly Emissions Reporting Form	Document No.	240-88543153
		Template No.	
		Revision	1
		No. of pages	14

Table 2: Daily consumption rates for fuel

Date	Reportable hours of Operation			Fuel Consumption (tons)				Production rate (MW)		
	Unit 4	Unit 5	Unit 6	Oil			Coal	U4	U5	U6
				Aux Boiler	Unit 4, 5 & 6	Total	Unit 4, 5 & 6)			
01-Feb-18	15.3	0.5	24.0	0.00	64	64.00	19768	700	660	600
02-Feb-18	0.0	19.8	24.0	0.00	99	99.00	16100		702	620
03-Feb-18	0.0	24.0	24.0	6.64	0.00	6.64	14727		623	600
04-Feb-18	0.0	24.0	24.0	0.00	0.00	0.00	14746		690	516
05-Feb-18	0.0	24.0	24.0	2.01	17	19.01	18636	517	711	598
06-Feb-18	9.1	24.0	24.0	97.33	202	299.33	24029	695	694	631
07-Feb-18	24.0	24.0	24.0	24.35	16	40.35	23932	740	670	600
08-Feb-18	24.0	24.0	24.0	0.00	0.00	0.00	23837	747	700	619
09-Feb-18	24.0	24.0	24.0	0.00	2	2.00	25457	775	709	671
10-Feb-18	24.0	24.0	24.0	0.00	0	0.00	24044	758	683	652
11-Feb-18	24.0	0.1	24.0	0.00	38	38.00	16037	736	50	656
12-Feb-18	24.0	0.0	24.0	0.00	5	5.00	15837	751		671
13-Feb-18	24.0	0.0	24.0	0.00	5	5.00	15548	787		655
14-Feb-18	24.0	0.0	24.0	0.00	0.00	0.00	15651	787		680
15-Feb-18	24.0	0.0	24.0	0.00	0.00	0.00	15484	787		645
16-Feb-18	24.0	0.0	24.0	0.00	0.00	0.00	15660	789		656
17-Feb-18	24.0	0.0	24.0	0.00	4	4.00	15743	749		660
18-Feb-18	24.0	0.0	24.0	0.00	0.00	0.00	15711	743		660
19-Feb-18	24.0	0.0	24.0	0.00	0.00	0.00	15859	755		695
20-Feb-18	24.0	0.0	24.0	0.00	6	6.00	16195	771		720
21-Feb-18	24.0	0.0	24.0	0.00	4	4.00	15838	775		697
22-Feb-18	24.0	0.0	24.0	0.00	0.00	0.00	15578	761		677
23-Feb-18	24.0	0.0	24.0	0.00	195	195.00	21514	697	381	652
24-Feb-18	22.9	24.0	24.0	0.00	46	46.00	20954	721	668	643
25-Feb-18	0.0	24.0	24.0	0.00	2	2.00	21498	735	726	641
26-Feb-18	22.7	24.0	24.0	0.00	0.00	0.00	22115	768	687	669
27-Feb-18	24.0	24.0	24.0	0.00	6	6.00	22602	742	734	704
28-Feb-18	24.0	24.0	24.0	0.00	8	8.00	22435	754	717	694

Note: load losses were initiated for unit 6 to reduce the amount of particulate emissions. Unit 4 was operating on grace period on 25 February 2018

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	Medupi Power Station Monthly Emissions Reporting Form	Document No.	240-88543153
		Template No.	
		Revision	1
		No. of pages	14

2. Abatement Technology

Table 3: Abatement Equipment Control Technology utilisation for month of February 2018

Associated Unit/Stack	Technology Type	Actual Utilisation (%) for the month of February 2018
Unit 4,5 and 6	Low NO _x Burners	100
	Pulse Jet Fabric Filter Plant	100

3. Energy Source Characteristics

Table 4: Energy Source Material Characteristics for the month of February 2018

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	1.48
Ash Content	35 - 39	34.75

Table 5: Energy Source Material Characteristics for the month of February 2018

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

4. Emissions Reporting

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

The daily emission limits are as follows:

SO₂= 3500 mg/Nm³

Dust= 50 mg/Nm³

NO₂= 750 mg/Nm³

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Medupi Power Station Monthly Emissions Reporting Form

Document No.	240-88543153
Template No.	
Revision	1
No. of pages	14

Table 6: Daily averages emissions for the month of February 2018

Days	PM (mg/Nm ³)			SO ₂ (mg/Nm ³)			NO ₂ (mg/Nm ³)			CO (mg/Nm ³)			Temp (°C)			Press (kPa)			Velocity (m/s)			O ₂ (%)			
	Unit	4	5	6	4	5	6	4	5	6	4	5	6	4	5	6	4	5	6	4	5	6	4	5	6
01-Feb-18		13.6	11.5	44.6	3418	3302	3419	687	510	512	9	6	10	85.0	130.1	136.1	83.3	89.2	89.3		24.6	30.1	7.0	6.9	7.1
02-Feb-18			50.2	50.6		3511	3374		440	525		10	5		134.0	138.0		89.3	89.4		24.8	31.4		6.0	6.9
03-Feb-18			35.9	51.0		3115	2911		414	489		10	5		132.3	137.7		89.5	89.6		23.1	30.7		6.5	7.1
04-Feb-18			48.2	44.4		3473	3205		477	578		11	11		133.4	129.4		89.5	89.6		24.6	28.2		6.2	8.6
05-Feb-18			55.8	52.4		3464	3137		476	558		20	5		135.0	136.8		89.5	89.6		25.0	30.7		6.0	7.4
06-Feb-18		21.3	61.4	55.4	3034	3256	2951	741	494	508	10	21	8	85.0	136.2	140.7	84.3	89.4	89.5		25.1	32.0	6.4	6.3	7.2
07-Feb-18		20.2	53.3	51.8	3349	3518	3170	817	468	474	9	18	6	85.0	132.7	136.3	84.3	89.3	89.4		24.3	30.5	6.3	6.2	7.3
08-Feb-18		18.9	45.9	54.2	3164	3466	3066	809	459	483	7	16	6	85.0	133.2	137.0	83.6	89.5	89.6		24.4	31.1	6.1	5.9	7.2
09-Feb-18		16.1	46.4	53.0	3458	3702	3414	803	455	473	9	11	7	85.0	132.3	136.9	84.6	89.3	89.4		24.8	32.6	6.0	6.1	6.7
10-Feb-18		19.6	40.3	55.5	3132	3584	3508	807	480	485	8	10	7	85.0	134.3	136.9	83.6	89.2	89.4		24.2	32.6	5.9	6.2	7.0
11-Feb-18		17.3	5.3	55.6	3148	2865	3125	804	428	434	9	17	7	85.0	123.8	138.2	82.8	89.5	89.3		16.8	32.3	6.1	10.9	7.0
12-Feb-18		14.0		55.8	3107		3132	691		423	10		9	85.0		139.2	83.1		89.6			32.5	5.9		6.9
13-Feb-18		14.8		53.1	3133		3103	694		434	15		5	85.0		137.1	83.4		89.8			33.2	5.7		6.8
14-Feb-18		17.2		53.3	3265		3148	789		387	15		10	85.0		136.0	83.6		90.0			31.8	5.7		6.7
15-Feb-18		16.7		51.3	3331		3146	700		444	7		14	85.0		138.8	84.8		89.9			33.0	6.0		6.9
16-Feb-18		23.1		50.3	3276		3187	678		394	8		10	85.0		133.1	84.9		89.5			31.8	6.0		6.8
17-Feb-18		27.7		52.0	3145		3378	703		460	7		18	85.0		135.7	84.0		89.4			32.2	6.2		6.8
18-Feb-18		25.4		54.7	3160		3214	696		548	11		7	85.0		140.2	83.3		89.4			32.6	6.1		6.7
19-Feb-18		21.1		53.7	3141		3322	624		558	13		5	85.0		139.3	83.5		89.4			32.4	5.9		6.6
20-Feb-18		23.0		51.7	3003		3284	522		512	12		13	85.0		134.5	83.9		89.4			33.8	6.0		6.7
21-Feb-18		24.8		51.1	3009		3054	568		503	9		28	85.0		137.2	84.8		89.4			34.9	6.3		6.6
22-Feb-18		22.6		50.0	2775		2979	601		395	10		20	85.0		136.2	83.6		89.4			34.0	6.4		6.7
23-Feb-18		16.5		51.1	3003		2791	567		438	12		12	85.0		135.4	82.9		89.5			32.7	6.4		6.7
24-Feb-18		16.2	28.1	51.2	2948	3104	3035	586	369	401	14	56	12	85.0	126.7	131.9	82.6	89.2	89.3		24.0	32.4	6.5	6.1	7.2
25-Feb-18			33.1	47.3		3191	2960		361	403		34	5		130.9	132.4		89.2	89.2		25.2	32.3		5.9	7.2
26-Feb-18		19.4	34.4	48.2	2741	2980	3026	595	365	373	10	17	8	85.0	127.3	131.8	84.4	89.6	89.3		24.9	32.5	6.4	6.5	7.3
27-Feb-18		19.3	26.2	43.8	2920	3280	2850	659	416	386	9	5	10	85.0	132.8	131.1	82.8	89.7	89.7		25.6	32.7	6.6	6.1	7.0
28-Feb-18		17.8	29.7	47.8	2965	3230	3070	662	431	417	7	6	10	85.0	134.9	136.4	83.3	89.6	89.7		25.5	33.8	6.3	6.5	6.7

Note: Unit 4 temperature and velocity meters are faulty. A notification has been loaded for the maintenance team to fix the instrument. Days shaded green represent the days on which EL1 was declared. There is no reportable data on areas shaded black

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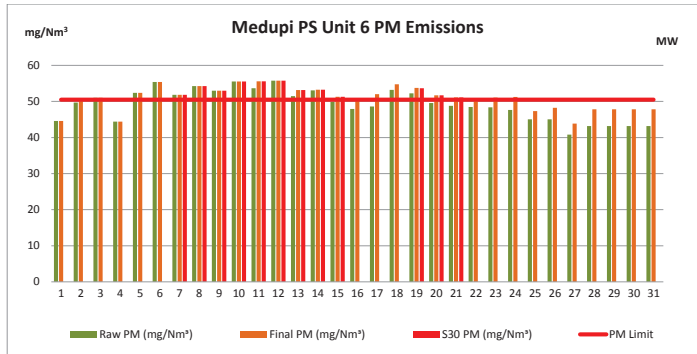
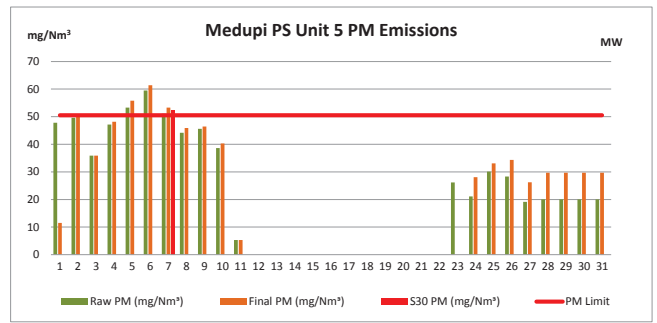
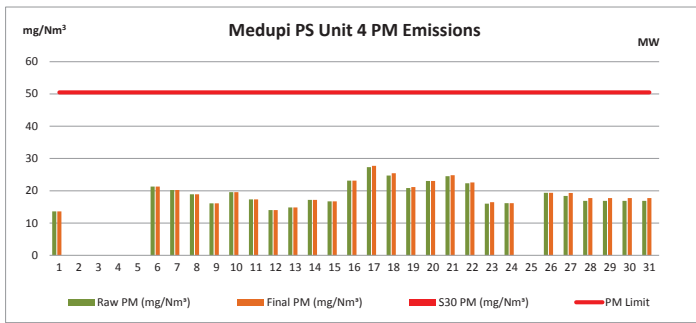
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Medupi Power Station Monthly Emissions Reporting Form

Document No.	240-88543153
Template No.	
Revision	1
No. of pages	14

Figure 1: Daily average emissions for the February 2018



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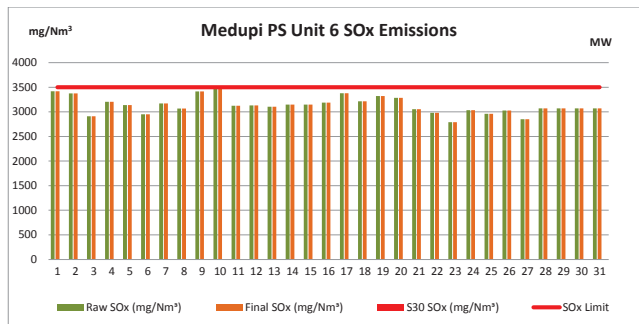
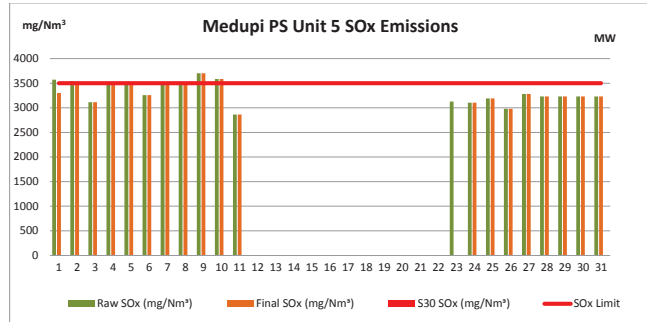
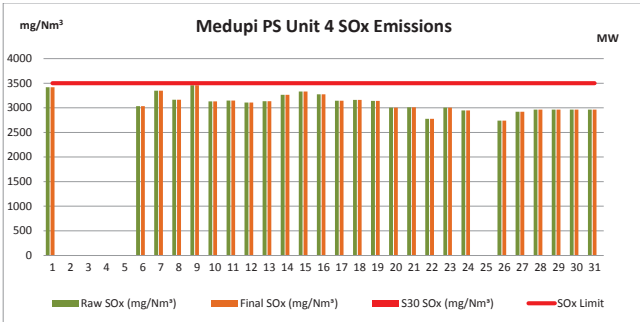
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Medupi Power Station Monthly Emissions Reporting Form

Document No.	240-88543153
Template No.	
Revision	1
No. of pages	14



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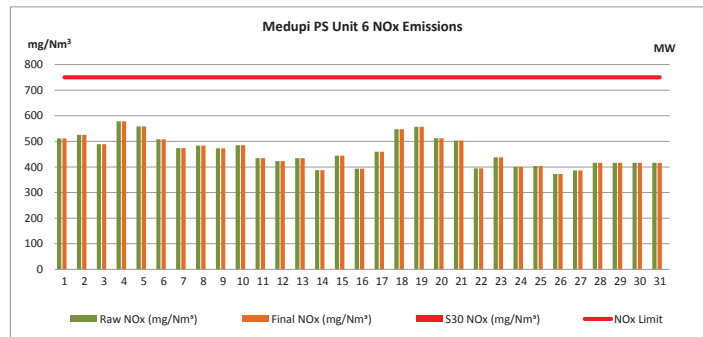
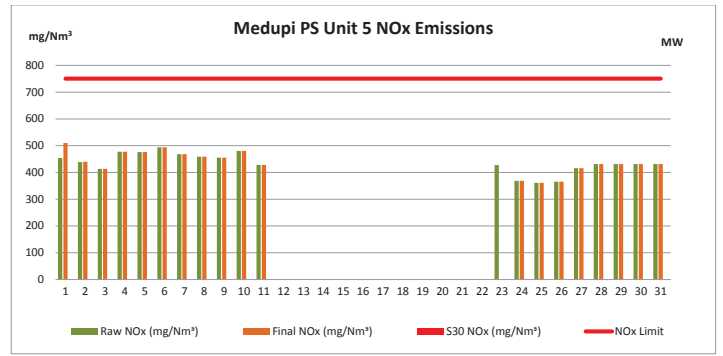
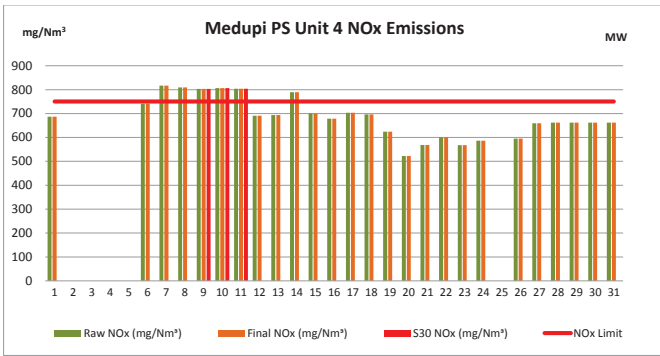
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Medupi Power Station Monthly Emissions Reporting Form

Document No.	240-88543153
Template No.	
Revision	1
No. of pages	14



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	Medupi Power Station Monthly Emissions Reporting Form	Document	240-88543153
		Template No.	
		Revision	1
		No. of pages	14

Table 7: Monthly tonnages for the month of February 2018

Unit	PM (tons)	SO ₂ (tons)	NO ₂ (tons)	CO (tons)	CO ₂ (tons)
1	0.0	0	0	0	0
2	0.0	0	0	0	0
3	0.0	0	0	0	0
4	0.0	0	0	0	0
5	44.0	3 506	457	18	0
6	139.1	8 513	1 254	27	0
SUM	183.0	12 019	1 711	45	0

Note: Unit 4 tonnages are not calculated due to unavailability of flow and temperature meter

5. Shutdown/start-up information

Table 8: Days operating under normal operation, days in grace period and section 30 days respectively

Unit	Operating Days (DD:HH:MM)			
	Normal operation	In grace period	Over the Limit	Unit off load
1	00:00:00	00:00:00	00:00:00	28:00:00
2	00:00:00	00:00:00	00:00:00	28:00:00
3	00:00:00	00:00:00	00:00:00	28:00:00
4	23:22:00	00:00:00	00:00:00	04:02:00
5	12:20:25	02:00:00	01:00:00	12:03:35
6	11:19:00	06:00:00	10:05:00	00:00:00

6. Comments on the performance and availability of each unit

Unit 4 was on outage for outage to repair passing valves starting from 2 February 2018 ending on 06 February 2018, unit 4 Turbine tripped due HP rotor stress limitation on 25 February 2018. Unit 5 on outage for PJFF plant repairs from 12 February to 24 February 2018. Unit 4 and 5 were off-load for 4 and 12 days respectively. Unit 6 remain on-load for the whole reporting period, with 10 days operating above the allowable limit for particulates matter.

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	Medupi Power Station Monthly Emissions Reporting Form	Document	240-88543153
		Template No.	
		Revision	1
		No. of pages	14

7. Light up information

Table 9: PM Start-up information for the month of February

Event No.	Event 1		Event 2	
Unit 4	<i>Unit 4</i>		<i>Unit 4</i>	
Fires in	<i>11:25 PM</i>	<i>2018/02/04</i>	<i>10:55 PM</i>	<i>2018/02/24</i>
Synchronisation with Grid	<i>02:50 PM</i>	<i>2018/02/05</i>	<i>01:15 AM</i>	<i>2018/02/25</i>
Emissions below limit from Sync (Date and Time)	<i>did not go above limit</i>	<i>did not go above limit</i>	<i>did not go above limit</i>	<i>did not go above limit</i>
Fires in to synchronization	<i>00:15:25</i>	Hrs (dd:hh:mm)	<i>00:02:20</i>	Hrs (dd:hh:mm)
Synchronization to < limit (Duration)	<i>did not go above limit</i>	Hrs (dd:hh:mm)	<i>did not go above limit</i>	Hrs (dd:hh:mm)

Event No.	Event 1		Event 2	
Unit 5	<i>Unit 5</i>		<i>Unit 5</i>	
Fires in	<i>12:30 AM</i>	<i>2018/02/01</i>	<i>08:40 AM</i>	<i>2018/02/22</i>
Synchronisation with Grid	<i>04:05 AM</i>	<i>2018/02/01</i>	<i>11:55 PM</i>	<i>2018/02/22</i>
Emissions below limit from Sync (Date and Time)	<i>did not go above limit</i>	<i>did not go above limit</i>	<i>did not go above limit</i>	<i>did not go above limit</i>
Fires in to synchronization	<i>00:03:35</i>	Hrs (dd:hh:mm)	<i>00:15:15</i>	Hrs (dd:hh:mm)
Synchronization to < limit (Duration)	<i>did not go above limit</i>	Hrs (dd:hh:mm)	<i>did not go above limit</i>	Hrs (dd:hh:mm)

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	Medupi Power Station Monthly Emissions Reporting Form	Document	240-88543153
		Template No.	
		Revision	1
		No. of pages	14

Table 10: Emission Average from Fires-in to Synchronisation

Emission Average from Fires-in to Synchronisation (Date and Time)							
Unit	Fires-In		Synchronisation		PM	SO ₂	NO _x
4	2018/02/24	10:55 PM	2018/02/25	01:15 AM	2.7	2985.7	529.5
5	2018/02/01	12:30 AM	2018/02/01	04:05 AM	10.3	3253.8	516.9

Table 11: Point Source emissions released during Shut-down

Emission Average Breaker Open (BO) to Draft Group Shut Down (SD) (Date & Time)							
Unit	Breaker Open		DG SD		PM	SO ₂	NO _x
4	2018/02/01	03:20 PM	2018/02/02	06:50 AM	3.1	3725.6	632.8
5	2018/02/11	12:05 AM	2018/02/12	01:30 AM	5.3	2865.0	428.1

8. Continuous Emission Monitoring Systems (CEMS)

Unit 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, the Licencing Authority will be notified prior to conducting the test. The Department will be notified of the exact date for the test.

Table 12: Periods during which CEMS was inoperative

Date	Time	Duration	Nature of Repair/Adjustment
N/A	N/A	N/A	N/A

9. CEMS Calibration certificates and equipment used for calibration

Verification Report to be sent to as an attachment to this report.

10. Continuous Emission Monitoring Systems (CEMS)

Table 13: CEMS Monitor Reliability

Variable	Unit 4	Unit 5	Unit 6
Dust	100.0	99.4	92.4

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	Medupi Power Station Monthly Emissions Reporting Form	Document	240-88543153
		Template No.	
		Revision	1
		No. of pages	14

SO2	100.0	100.0	100.0
NOx	100.0	100.0	100.0
CO	100.0	100.0	99.9
O2	0	100	100
Temperature	0	100	100
Pressure	0	100	100
Velocity	0	100	100
CO ₂	Not Commissioned	Not Commissioned	Not Commissioned

11. Ambient Air Quality Monitoring Report

The Ambient Air Quality Monitoring and Dust fall-out report for the month of January and February 2018 will be emailed to the Licensing authority as an attachment to this report

12. 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 detected on the exterior walls of the fuel oil tanks.

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	Medupi Power Station Monthly Emissions Reporting Form	Document	240-88543153
		Template No.	
		Revision	1
		No. of pages	14


		
CALCULATION OF EMISSIONS OF TOTAL VOLATILE COMPOUNDS FROM FUEL OIL STORAGE TANKS*		
Date:	28 February 2018	
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 blue cells 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:	February	
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:	3197.44686	tons/month
Molecular weight of the fuel oil:	166.00	Lb/lb-mole
METEROLOGICAL DATA FOR THE MONTH		
	Data	Unit
Daily average ambient temperature	26.20	°C
Daily maximum ambient temperature	32.94	°C
Daily minimum ambient temperature	20.71	°C
Daily ambient temperature range	12.24	°C
Daily total insolation factor	5.72	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:	0.09	kg/month
TOTAL LOSSES (Total TVOC Emissions for the month):	0.79	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, Trittech 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>		

Table 14: Total Volatile Organic Compound (TVOC) for February 2018

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	Medupi Power Station Monthly Emissions Reporting Form	Document	240-88543153
		Template No.	
		Revision	1
		No. of pages	14

13. Air quality improvements Initiatives and Public education and awareness campaigns

There were no activities planned for the month of February 2018.

14. Complaints Register

Table 15: Complaints for the month of February 2018

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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	Medupi Power Station Monthly Emissions Reporting Form	Document	240-88543153
		Template No.	
		Revision	1
		No. of pages	14

Compiled by: Senior Environmental Advisor

Reviewed by: Boiler System Engineer

Supported by: Environmental Manager

Supported by: Boiler Engineering Manager

Supported by: Engineering Group Manager (Acting)

I Prince Khumalo, declares that the information provided in this report is accurate and correct.

Yours sincerely

Prince Khumalo
GENERAL MANAGER: MEDUPI POWER STATION (Acting)

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