



Medupi Power Station Monthly Emissions Report

Template Identifier		Document Identifier	Effective Date	Review Date
Rev	6	240-43921804	February 2021	February 2024
Rev	2	240-88543153	February 2021	February 2024

Stanley Koenaite

Waterberg District Municipality

Private Bag X1018

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0510

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Ref: H16/11/13-AEL/M1/R1 – November 2021 rev 1

Dear Mr Koenaite

**MEDUPI POWER STATION MONTHLY EMISSIONS REPORT FOR THE MONTH OF NOVEMBER 2021**

This document serves as the monthly emissions report required in terms of Section 7.7.1 of Medupi Power Station Provisional Atmospheric Emission License (AEL), H16/11/13-AEL/M1/R1.

This report is a reflection of Unit 1, 2, 3, 5 and 6 gaseous and particulate emissions performance against the AEL limit for the month of November 2021 only. This report supersedes the previous submission made for the month on November 2021.

**1. Raw Materials and Products**


**TABLE 1: QUANTITY OF RAW MATERIALS AND PRODUCTS CONSUMPTION IN NOVEMBER 2021**

Raw Materials and Products used	Raw Material Type	Unit	Maximum Permitted Consumption/Rate (Quantity)	Production Rates	
				Product/ By-Product Name	Unit
Coal	Tons/month	1 875 000	904 811	Energy	GWh
				Ash Emitted	Tons
					not specified
Fuel Oil	Tons/month	20 000	4 003	Energy	GWh
				Ash Emitted	Tons
					not specified
Coal	Tons/month	1 875 000	904 811	Energy	GWh
				Ash Emitted	Tons
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Date	Reportable hours of Operation						Coal usage	Production rate (MW)					
	U1	U2	U3	U4	U5	U6		U1	U2	U3	U4	U5	U6
01/11/21	24.0	24.0	OFF	10.9	24.0	25221	709	747	OFF	461	672	560	
02/11/21	24.0	OFF	24.0	24.0	29267	615	777	OFF	761	579	560	560	
03/11/21	24.0	OFF	24.0	24.0	30715	652	772	OFF	778	579	560	560	
04/11/21	24.0	OFF	24.0	24.0	30303	610	794	OFF	759	590	586	586	
05/11/21	24.0	OFF	24.0	24.0	30077	630	794	OFF	773	586	586	586	
06/11/21	24.0	OFF	24.0	24.0	28026	627	770	OFF	600	550	550	550	
07/11/21	24.0	OFF	19.0	24.0	23135	571	609	OFF	509	550	550	550	
08/11/21	24.0	OFF	24.0	24.0	20453	584	359	OFF	615	554	554	554	
09/11/21	24.0	OFF	24.0	24.0	23251	574	521	OFF	640	560	560	560	
10/11/21	24.0	OFF	24.0	24.0	26318	644	732	OFF	653	546	546	546	
11/11/21	24.0	OFF	24.0	24.0	27222	687	718	OFF	665	554	554	554	
12/11/21	24.0	OFF	24.0	24.0	28621	661	700	OFF	673	628	628	628	
13/11/21	24.0	15.9	24.0	24.0	31431	600	721	433	722	650	650	650	
14/11/21	24.0	24.0	24.0	24.0	34731	658	704	662	609	607	607	607	
15/11/21	24.0	24.0	24.0	24.0	34051	547	777	714	600	614	614	614	
16/11/21	24.0	24.0	24.0	24.0	35713	694	789	742	607	590	590	590	
17/11/21	24.0	11.0	24.0	24.0	31795	672	791	556	724	609	609	609	
18/11/21	24.0	19.8	24.0	24.0	34052	641	734	570	773	587	587	587	
19/11/21	24.0	24.0	24.0	24.0	33888	610	795	550	546	546	546	546	
20/11/21	24.0	24.0	24.0	0.0	30134	768	794	629	790	OFF	OFF	OFF	
21/11/21	24.0	11.2	24.0	24.0	27185	771	743	717	785	OFF	OFF	OFF	
22/11/21	24.0	14.3	24.0	24.0	26817	592	685	747	740	OFF	OFF	OFF	
23/11/21	24.0	24.0	24.0	21.0	34612	663	794	728	742	423	423	423	
24/11/21	24.0	24.0	24.0	24.0	33956	604	681	719	689	594	594	594	
25/11/21	24.0	24.0	24.0	24.0	32338	607	577	692	580	574	574	574	
26/11/21	24.0	24.0	24.0	24.0	33969	683	698	730	556	554	554	554	
27/11/21	24.0	19.6	24.0	24.0	30785	565	645	702	600	502	502	502	
28/11/21	24.0	21.8	24.0	24.0	31222	629	661	612	600	530	530	530	
29/11/21	24.0	24.0	24.0	24.0	34539	706	745	735	622	530	530	530	
30/11/21	24.0	2.6	24.0	24.0	30984	554	794	791	753	530	530	530	

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The emission limits are as follows:

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

**4. Emissions Reporting**

Characteristic	Stipulated Range (%)	Monthly Average Content (%)
<b>Oil</b>		
Sulphur Content	0.5 - 3.5	2.3
Ash Content	0.02 - 0.1	0.020

TABLE 5: ENERGY SOURCE MATERIAL CHARACTERISTICS FOR THE MONTH OF NOVEMBER 2021

Characteristic	Stipulated Range (% by weight on a dry basis)	Monthly Average Content (% by weight on a dry basis)
<b>Coal</b>		
Sulphur Content	1.3 - 2.2	1.40
Ash Content	35 - 39	34.50

TABLE 4: ENERGY SOURCE MATERIAL CHARACTERISTICS FOR THE MONTH OF NOVEMBER 2021


**3. Energy Source Characteristics**

Note: Both the FFP and FGD does not have bypass mode operation, hence plant 100% Utilised.

Associated Unit/Stack	Technology Type	Efficiency
Unit 1	Fabric Filter Plant (FFP)	99.874%
Unit 2	Fabric Filter Plant (FFP)	99.929%
Unit 3	Fabric Filter Plant (FFP)	99.951%
Unit 4	Fabric Filter Plant (FFP)	-
Unit 5	Fabric Filter Plant (FFP)	99.973%
Unit 6	Fabric Filter Plant (FFP)	99.869%

Table 3: Abatement Equipment Control Technology efficiency for month of November 2021


**2. Abatement Technology**

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SO<sub>2</sub> Monthly = 3500 mg/Nm<sup>3</sup>      Dust Daily = 50 mg/Nm<sup>3</sup>      NO<sub>2</sub> Daily = 750 mg/Nm<sup>3</sup>

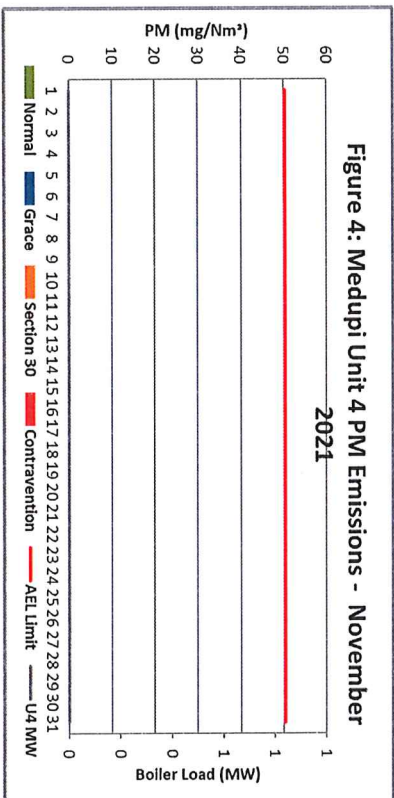
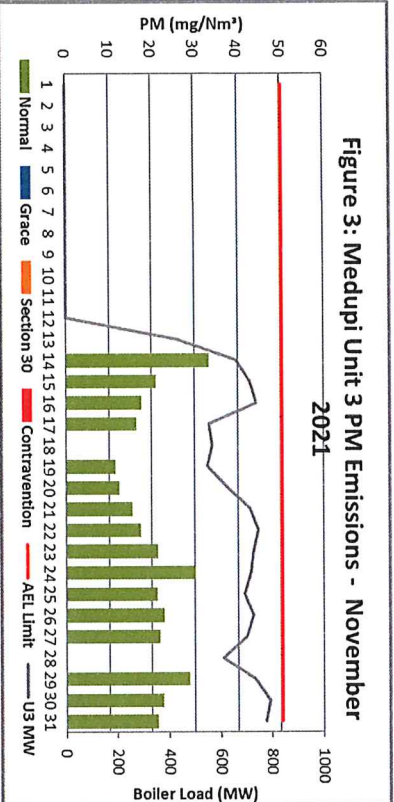
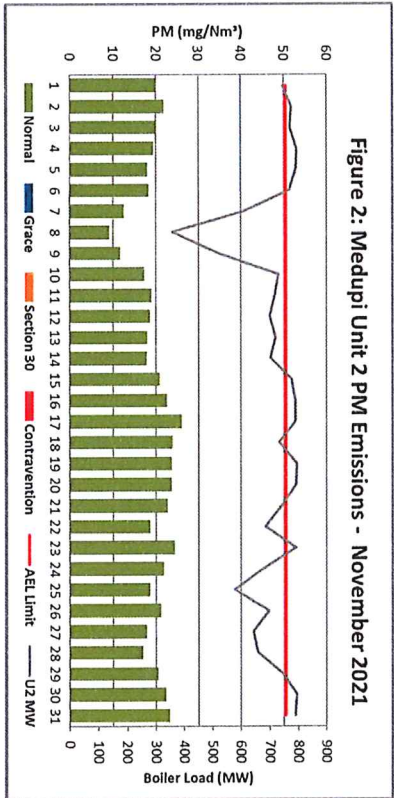
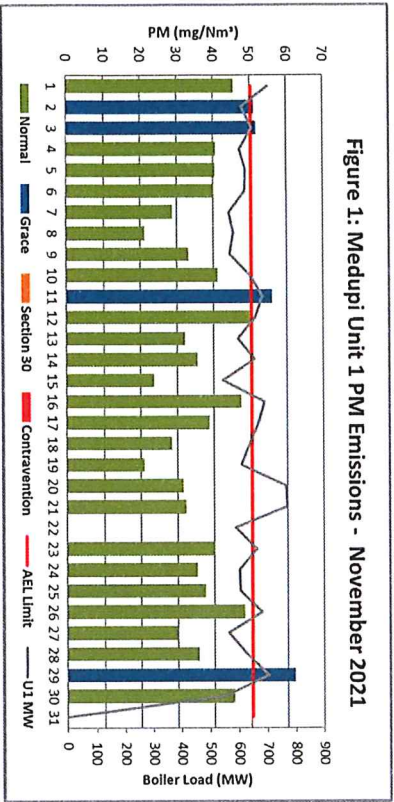
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PM Daily Averages



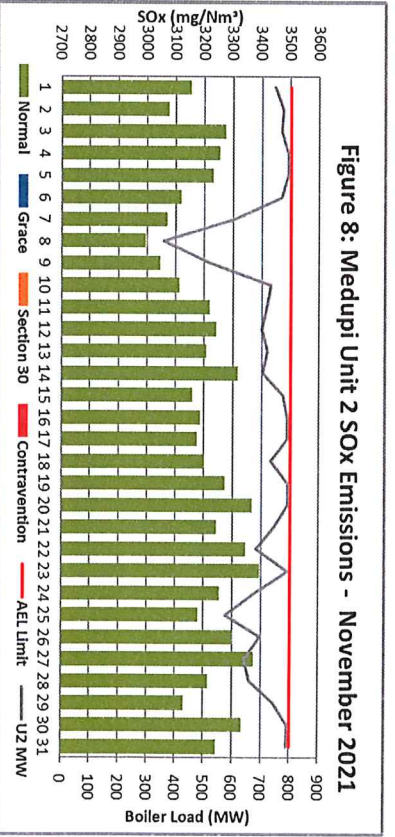
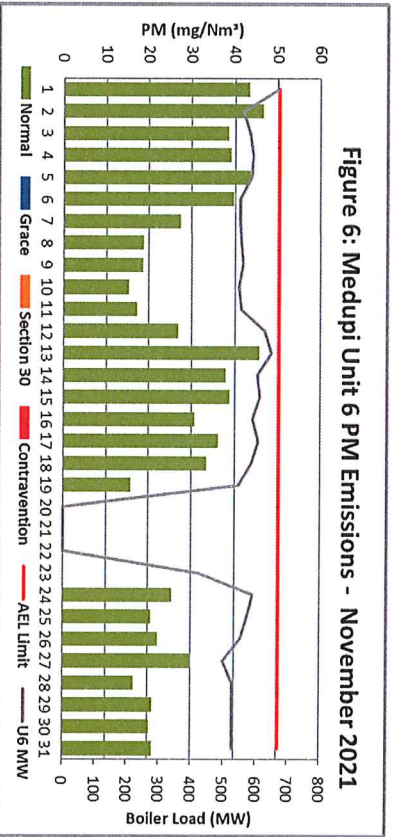
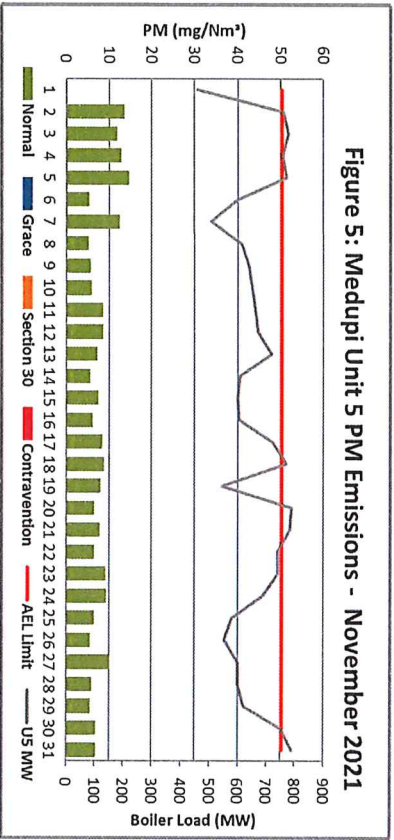
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SOx Daily Averages

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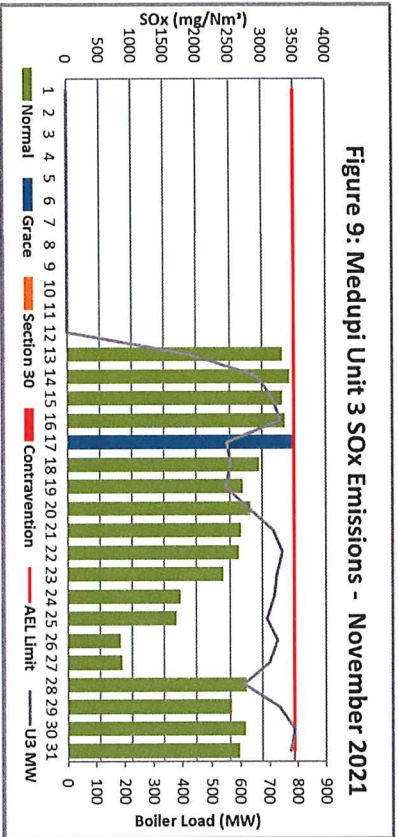


Figure 9: Medupi Unit 3 SOx Emissions - November 2021

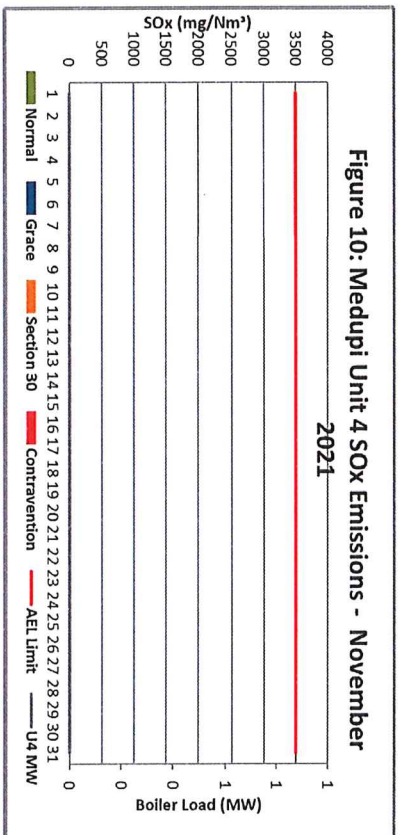


Figure 10: Medupi Unit 4 SOx Emissions - November 2021

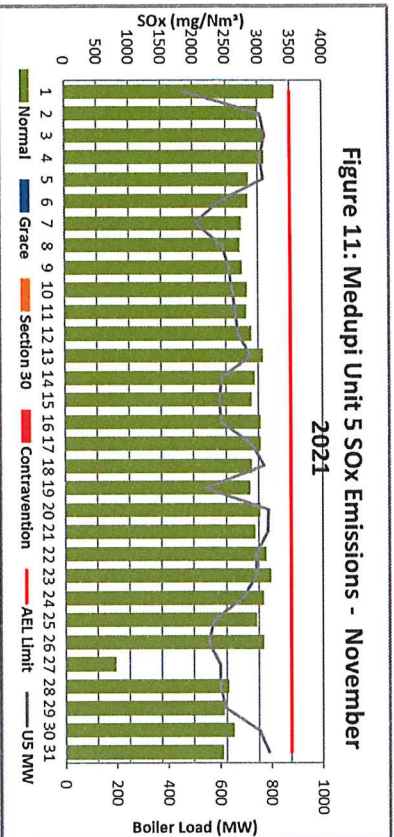


Figure 11: Medupi Unit 5 SOx Emissions - November 2021

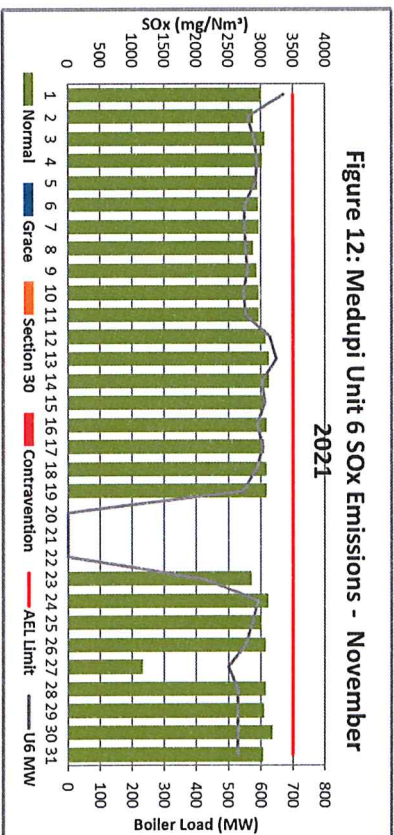


Figure 12: Medupi Unit 6 SOx Emissions - November 2021

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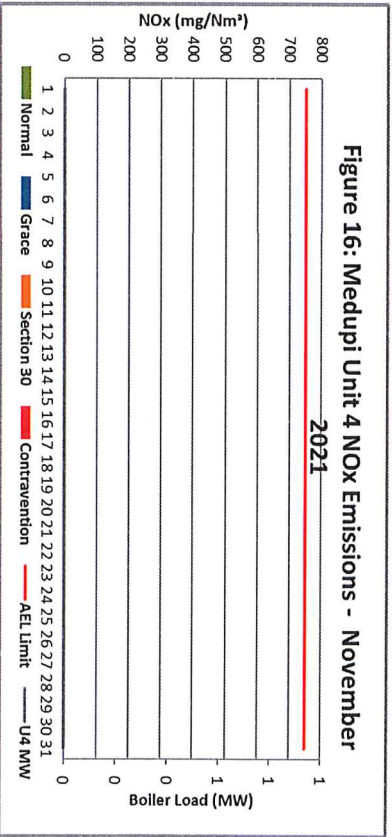
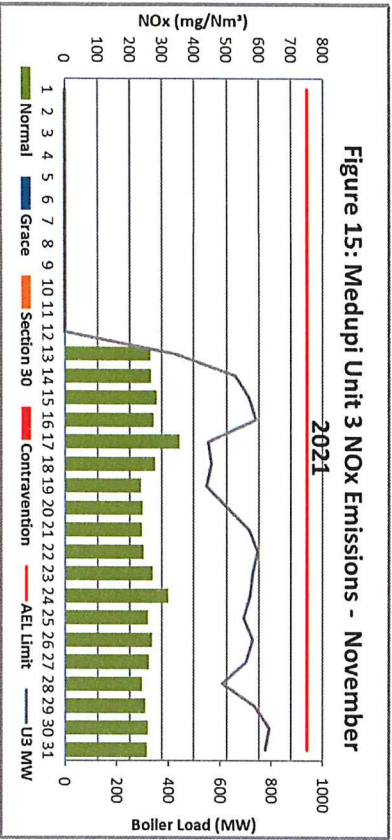
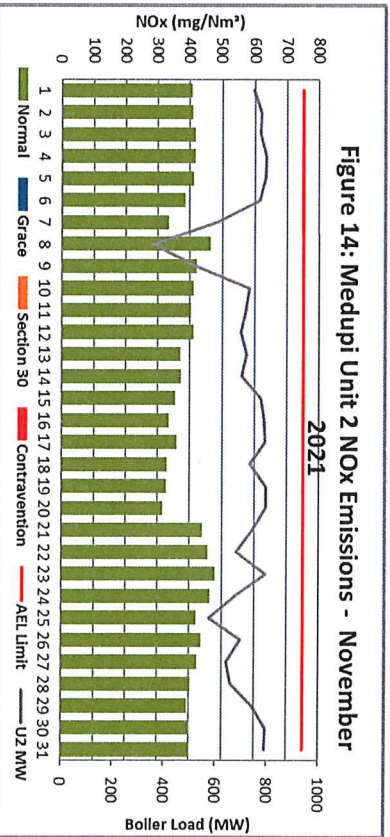
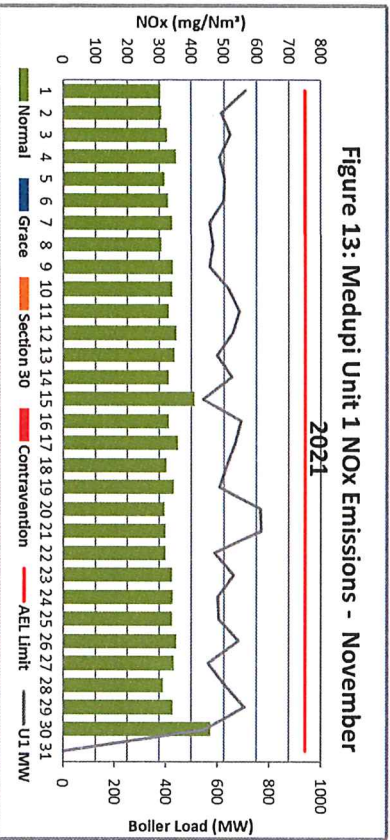
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NOx Daily Averages



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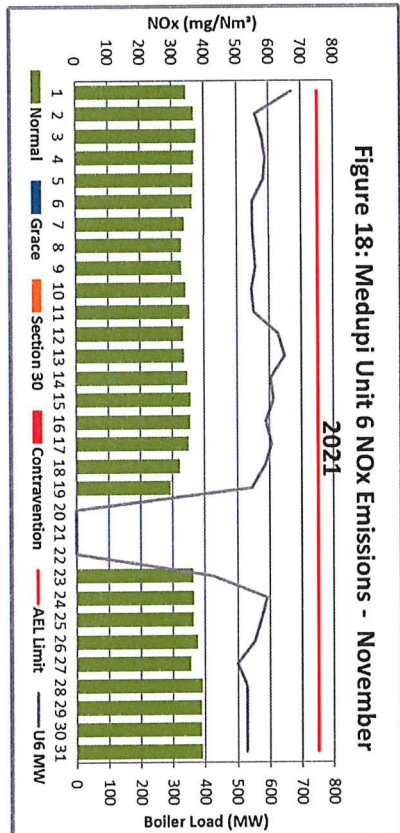
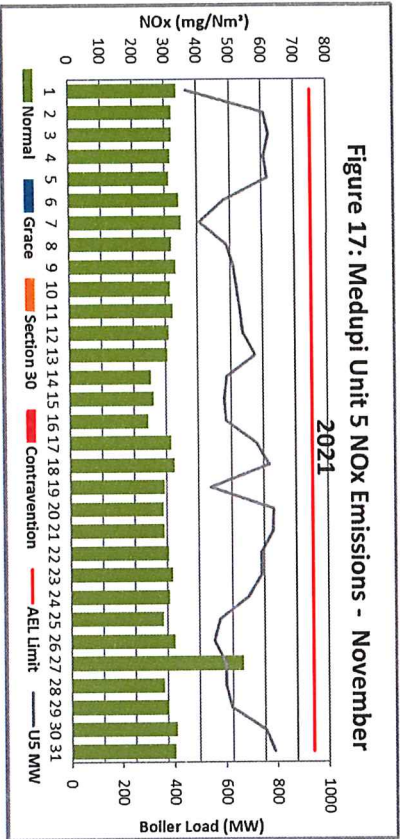
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Medupi Power Station graphical representation of the daily average emissions

Note: Unit 4 off for recovery.

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TABLE 7: MONTHLY TONNAGES FOR THE MONTH OF NOVEMBER 2021

Associated Unit/Stack	PM	SO <sub>2</sub>	NO <sub>2</sub>
Unit 1	67.0	5 600	583
Unit 2	51.2	8 277	1 023
Unit 3	19.1	2 493	262
Unit 4	0.0	0	0
Unit 5	17.1	6 312	695
Unit 6	64.2	6 572	785
<b>SUM</b>	<b>218.7</b>	<b>29 255</b>	<b>3 348</b>

5. Continuous Emission Monitoring Systems (CEMS)

Unit 1, 2, 3, 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

Associated Unit/Stack	PM	SO <sub>2</sub>	NO	O <sub>2</sub>
Unit 1	100.0	100.0	100.0	99.9
Unit 2	100.0	100.0	100.0	100.0
Unit 3	100.0	89.2	100.0	88.0
Unit 4				
Unit 5	100.0	100.0	100.0	100.0
Unit 6	97.0	100.0	96.3	99.8

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6. CEMS Calibration certificates and equipment used for calibration

A service provider was appointed to calibrate CEMS equipment at Medupi Power Station, calibration certificates to be made available upon request.

7. 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.

8. 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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<b>CALCULATION OF EMISSIONS OF TOTAL VOLATILE COMPOUNDS FROM FUEL OIL STORAGE TANKS*</b>																																																							
<p>Date: Wednesday, 30 November 2022</p> <p>Station: Medupi Power Station</p> <p>Province: Limpopo Province</p> <p>Tank no. 1-2</p> <p>Description: Outdoor fuel oil storage tank</p> <p>Tank Type: Vertical fixed roof (vented to atmosphere)</p> <p>Material stored: Fuel Oil 150</p>																																																							
<p><b>MONTHLY INPUT DATA FOR THE STATION</b></p> <p>Please only insert relevant monthly data inputs into the <b>blue cells</b> below</p> <p>Choose from a dropdown menu in the <b>green cells</b></p> <p>The total VOC emissions for the month are in the <b>red cells</b></p> <p><b>IMPORTANT:</b> Do not change <b>any</b> other cells without consulting the AQ CoE</p>																																																							
<b>MONTH:</b> November																																																							
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<table border="1"> <tr> <td colspan="2">Data</td> <td>Unit</td> </tr> <tr> <td>Total number of fuel oil tanks:</td> <td>2</td> <td>NA</td> </tr> <tr> <td>Height of tank:</td> <td>14.2</td> <td>m</td> </tr> <tr> <td>Diameter of tank:</td> <td>12</td> <td>m</td> </tr> <tr> <td>Net fuel oil throughput for the month:</td> <td>4003</td> <td>tons/month</td> </tr> <tr> <td>Molecular weight of the fuel oil:</td> <td>166.00</td> <td>Lb/lb-mole</td> </tr> <tr> <td colspan="2">Data</td> <td>Unit</td> </tr> <tr> <td>Daily average ambient temperature</td> <td>26.22</td> <td>°C</td> </tr> <tr> <td>Daily maximum ambient temperature</td> <td>32.63</td> <td>°C</td> </tr> <tr> <td>Daily minimum ambient temperature</td> <td>20.19</td> <td>°C</td> </tr> <tr> <td>Daily ambient temperature range</td> <td>12.44</td> <td>°C</td> </tr> <tr> <td>Daily total insulation factor</td> <td>6.14</td> <td>kWh/m<sup>2</sup>/day</td> </tr> <tr> <td>Tank paint colour</td> <td>Aluminium/pecular</td> <td>NA</td> </tr> <tr> <td>Tank paint solar absorptance</td> <td>0.39</td> <td>NA</td> </tr> <tr> <td colspan="2">Result</td> <td>Unit</td> </tr> <tr> <td>Breathing losses:</td> <td>0.72 kg/month</td> <td></td> </tr> <tr> <td>Working losses:</td> <td>0.11 kg/month</td> <td></td> </tr> <tr> <td><b>TOTAL LOSSES (Total TVOC Emissions for the month):</b></td> <td><b>0.83 kg/month</b></td> <td></td> </tr> </table>		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:	4003	tons/month	Molecular weight of the fuel oil:	166.00	Lb/lb-mole	Data		Unit	Daily average ambient temperature	26.22	°C	Daily maximum ambient temperature	32.63	°C	Daily minimum ambient temperature	20.19	°C	Daily ambient temperature range	12.44	°C	Daily total insulation factor	6.14	kWh/m <sup>2</sup> /day	Tank paint colour	Aluminium/pecular	NA	Tank paint solar absorptance	0.39	NA	Result		Unit	Breathing losses:	0.72 kg/month		Working losses:	0.11 kg/month		<b>TOTAL LOSSES (Total TVOC Emissions for the month):</b>	<b>0.83 kg/month</b>	
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<p>Breathing losses: 0.72 kg/month</p> <p>Working losses: 0.11 kg/month</p> <p><b>TOTAL LOSSES (Total TVOC Emissions for the month): 0.83 kg/month</b></p>																																																							
<p>*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 Pears, PE, Tntech Consulting Engineers, 85-93 Chevy Chase Street, Jamaica, NY 11432 USA, Tel - 718-454-3920, Fax - 718-454-6330, e-mail - Pearsj@nyc.rr.com.</p>																																																							

TABLE 8: TOTAL VOLATILE ORGANIC COMPOUND (TVOC) FOR NOVEMBER 2021

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



Medupi Power Station Monthly Emissions Report

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

No awareness campaign.

10. Complaints Register

TABLE 9: COMPLAINTS FOR THE MONTH OF NOVEMBER 2021

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

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Supported by:

Mokgadi Dikgale

Environmental Manager

Supported by:

Jabulani Mkhatswa

Engineering Group Manager

I Zwelli Witbooi, declares that the information provided in this report is accurate and correct.

Yours sincerely,

Zwelli Witbooi

GENERAL MANAGER: MEDUPI POWER STATION

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