

	Medupi Power Station Monthly Emissions Report	Template Identifier	240-43921804	Rev	7
		Document Identifier	240-88543153	Rev	2
		Effective Date	February 2026		
		Review Date	February 2027		

Stanley Koenaitse

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Date: 2026/03/30

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Ref: H16/1/13-AEL/M1/R1 – April 2026

Dear Mr Koenaitse

MEDUPI POWER STATION MONTHLY EMISSIONS REPORT FOR THE MONTH OF APRIL 2026

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), H16/1/13-AEL/M1/R1.

This report reflects Unit 1,2,3,4,5, and 6 gaseous and particulate emissions performance against the AEL limit for the month of April 2026 only.

1. Raw Materials and Products

TABLE 1: QUANTITY OF RAW MATERIALS AND PRODUCTS CONSUMPTION IN APRIL 2026

Raw Materials and Products used	Raw Material Type	Unit	Maximum Permitted Consumption/ Rate (Quantity)	Consumption – April 2026
	Coal	Tons/month	1 875 000	891 335
	Fuel Oil	Tons/month	20 000	4 505.0
Production Rates	Product/ By-Product Name	Unit	Maximum Production Capacity Permitted (Quantity)	Production Rate in Month of April 2026
	Energy	GWh	3 571.2	1 778.483
	Ash Emitted	Tons/month	not specified	201.22

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Date	Daily Reportable Hours of Operation						Coal usage	Production rate (MW)					
	U1	U2	U3	U4	U5	U6		U1	U2	U3	U4	U5	U6
01-April		24.0	16.2			24.0	16083		450.2	416.2			536.9
02-April		24.0	7.8			24.0	15922		450.2	500.6			484.3
03-April		24.0	24.0			24.0	15494		450.2	449.9			499.7
04-April		24.0	24.0			24.0	15669		450.2	451.3			496.4
05-April		24.0	24.0			24.0	15386		450.2	450.2			496.7
06-April		24.0	24.0			24.0	15730		450.2	449.1			494.8
07-April		24.0	24.0			24.0	22203		450.2	452.5			517.6
08-April	8.1	24.0	24.0	8.8		24.0	29891	529.2	450.2	512.9	650.4		532.9
09-April	24.0	24.0	24.0	24.0		24.0	31161	558.9	501.7	494.5	650.9		541.8
10-April	24.0	24.0	24.0	24.0		24.0	31171	671.7	363.5	534.0	613.2		563.4
11-April	24.0	24.0	24.0	24.0	1.2	24.0	33174	628.7	524.6	580.9	605.5	520.6	599.4
12-April	24.0	24.0	24.0	24.0		24.0	30833	563.5	509.2	559.0	549.3		593.2
13-April	24.0	24.0	24.0	24.0		24.0	35938	626.8	568.9	593.1	554.6		634.2
14-April	24.0	24.0	24.0	24.0	16.2	24.0	35547	590.4	523.5	600.0	530.6	501.6	537.7
15-April	24.0	24.0	24.0	24.0	7.2	24.0	35386	651.9	656.0	600.0	582.3	331.5	542.6
16-April	24.0	24.0	24.0	24.0	8.3	24.0	37431	617.7	573.7	600.0	549.1	743.8	554.9
17-April	24.0	24.0	24.0	24.0	24.0	24.0	39783	664.9	638.9	595.6	583.8	696.1	572.8
18-April	24.0	24.0	24.0	24.0	9.4	24.0	33892	547.8	513.3	580.5	470.3	570.7	527.2
19-April	24.0	24.0	24.0	2.6	11.7	24.0	29518	443.3	588.4	535.5	376.2	536.7	471.2
20-April	24.0	24.0	24.0	7.7	24.0	24.0	34431	514.6	600.6	493.2	542.1	565.8	592.8
21-April	24.0	24.0	24.0	24.0	24.0	24.0	34754	615.9	629.9	442.1	510.9	642.5	563.7
22-April	24.0	24.0	24.0	24.0	24.0	24.0	31862	616.1	680.1	513.9	424.3	458.1	487.6
23-April	24.0	24.0	24.0	24.0	24.0	24.0	32304	609.6	680.1	537.0	484.6	344.6	472.3
24-April	24.0	24.0	24.0	24.0	24.0	24.0	38433	722.8	765.6	583.6	539.6	549.6	452.4
25-April	24.0	24.0	24.0	24.0	24.0	24.0	34977	624.6	699.3	583.5	516.6	422.0	468.1
26-April	21.3	24.0	24.0	24.0	13.3	24.0	31083	567.2	705.6	528.2	479.0	363.0	468.1
27-April		24.0	24.0	24.0		24.0	32998		694.2	571.6	488.5		442.7
28-April	23.4	24.0	24.0	24.0	22.1	24.0	32683	533.2	680.8	493.6	470.3	400.4	438.2
29-April	24.0	24.0	24.0	24.0	24.0	24.0	32572	542.2	550.5	487.3	473.8	483.6	445.0
30-April	24.0	24.0	24.0	24.0	24.0	17.8	35026	656.3	638.8	520.1	544.2	498.0	422.6

NB: Operating hours less than 24 highlighted in pink.

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2. Abatement Technology

TABLE 2: ABATEMENT EQUIPMENT CONTROL TECHNOLOGY EFFICIENCY FOR MONTH OF APRIL 2026

Associated Unit/Stack	Technology Type	Efficiency	FFP Utilization
Unit 1	Fabric Filter Plant (FFP)	99.897%	100%
Unit 2	Fabric Filter Plant (FFP)	99.917%	100%
Unit 3	Fabric Filter Plant (FFP)	99.956%	100%
Unit 4	Fabric Filter Plant (FFP)	99.882%	100%
Unit 5	Fabric Filter Plant (FFP)	99.950%	100%
Unit 6	Fabric Filter Plant (FFP)	99.884%	100%

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

3. Energy Source Characteristics

TABLE 3: ENERGY SOURCE MATERIAL CHARACTERISTICS FOR THE MONTH OF APRIL 2026

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	1.3
Ash Content	35 - 39	34.4

TABLE 4: ENERGY SOURCE MATERIAL CHARACTERISTICS FOR THE MONTH OF APRIL 2026

Characteristic	Stipulated Range (%)	Monthly Average Content (%)
	Oil	
Sulphur Content	0.5 - 3.5	2.1
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:

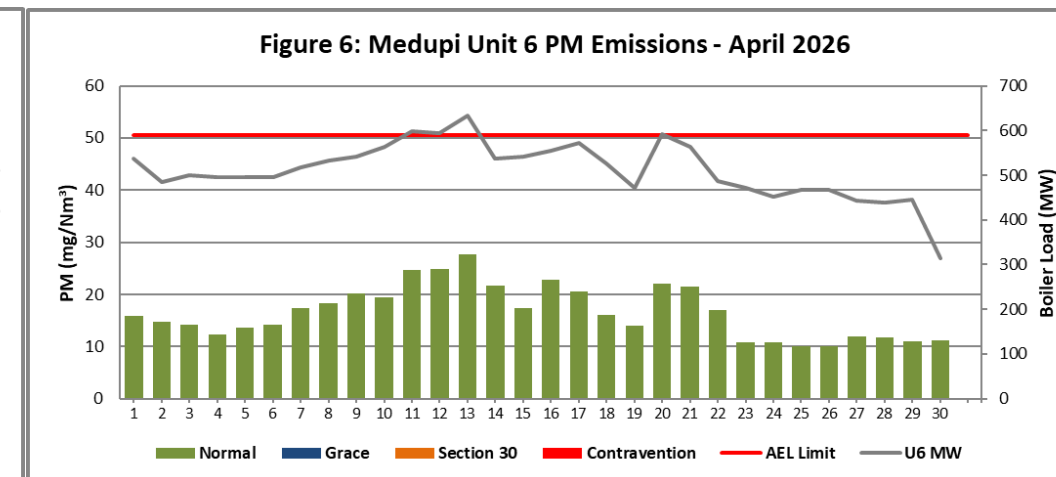
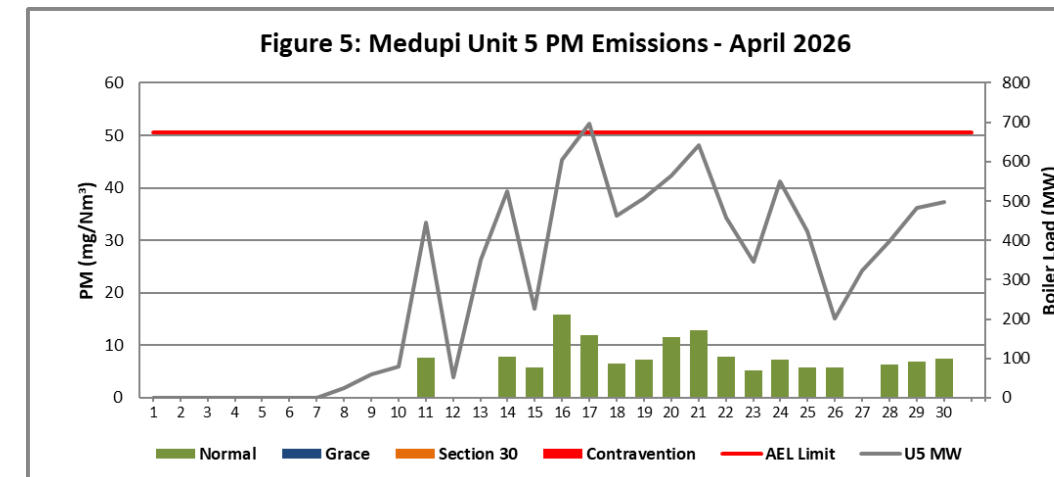
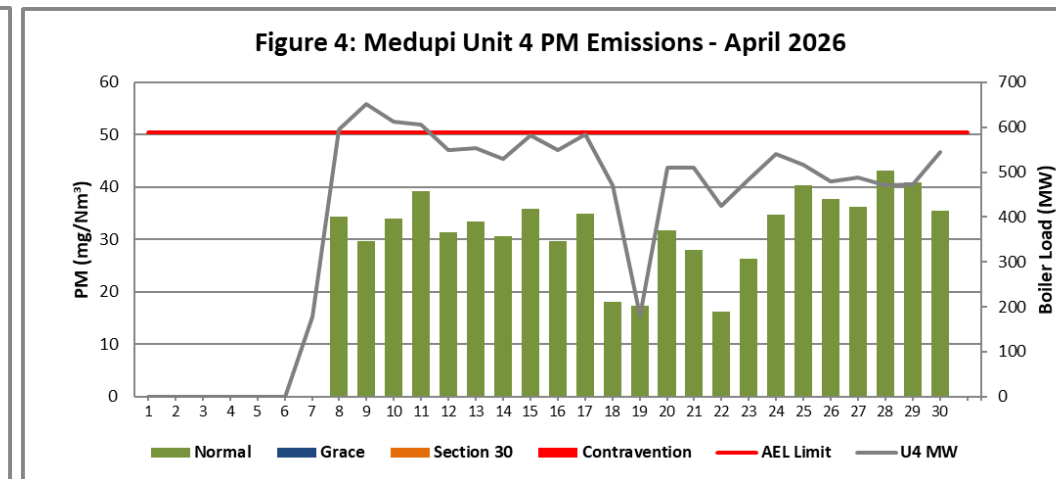
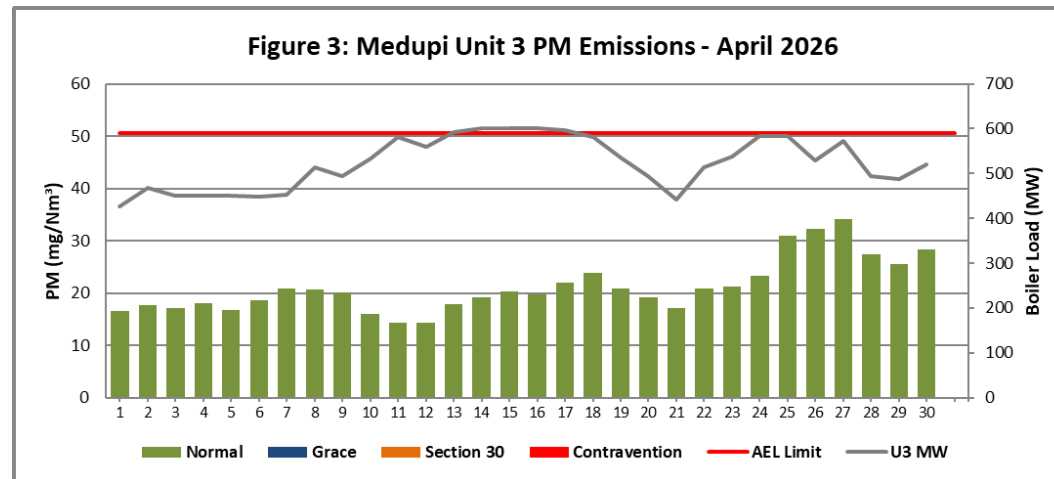
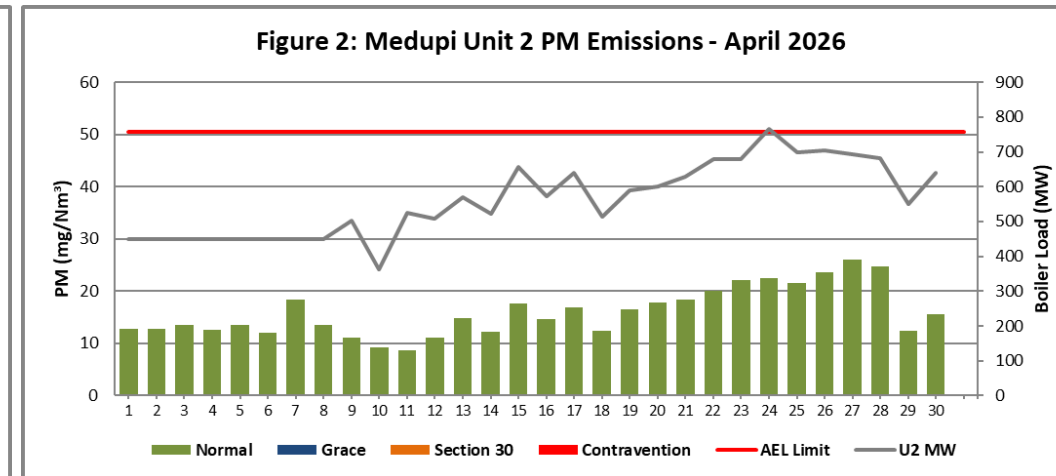
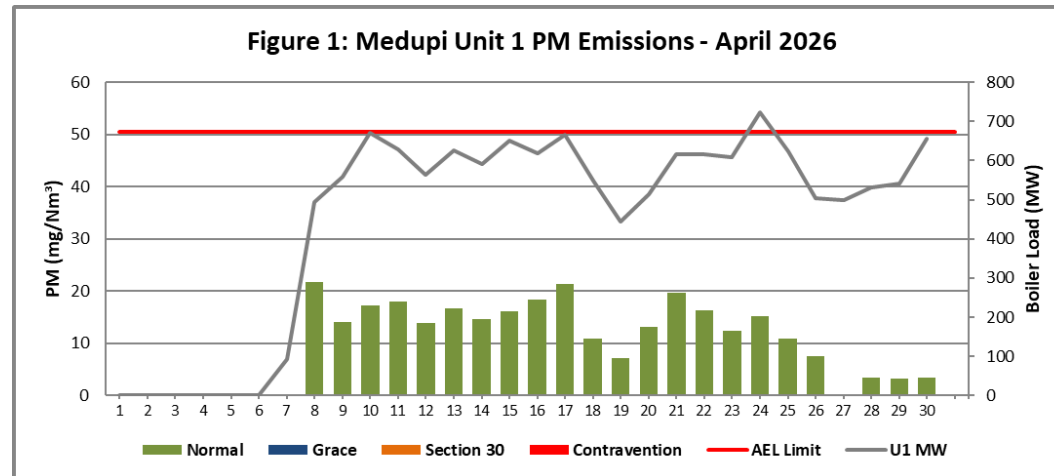
SO₂ Monthly = 3500 mg/Nm³

Dust Daily= 50 mg/Nm³

NO₂ Daily= 750 mg/Nm³

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4.1 PM Daily Averages



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4.2 SO₂ Daily Averages

Figure 7: Medupi Unit 1 SO₂ Emissions - April 2026

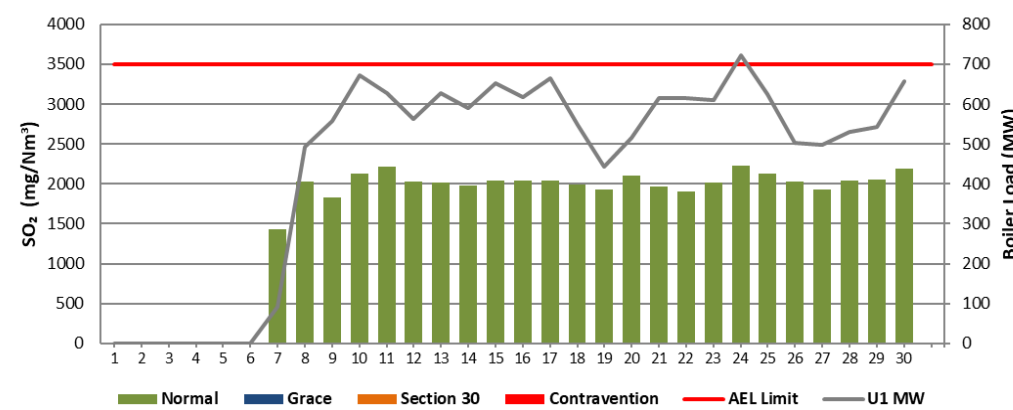


Figure 8: Medupi Unit 2 SO₂ Emissions - April 2026

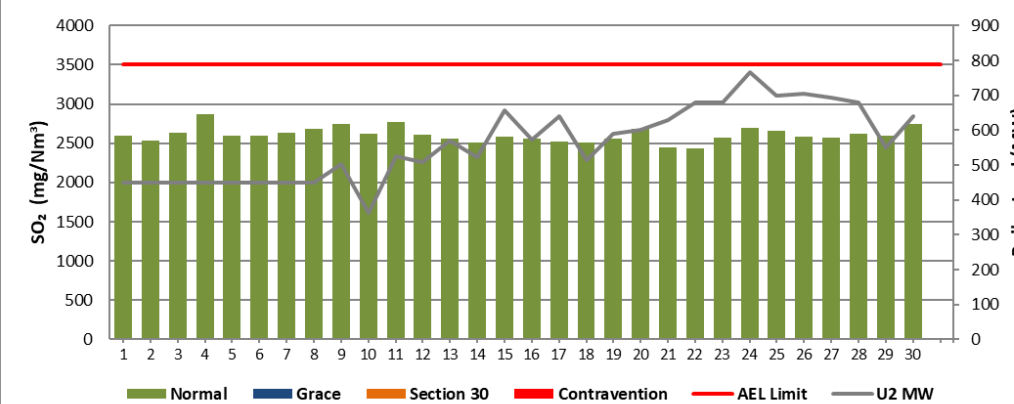


Figure 9: Medupi Unit 3 SO₂ Emissions - April 2026

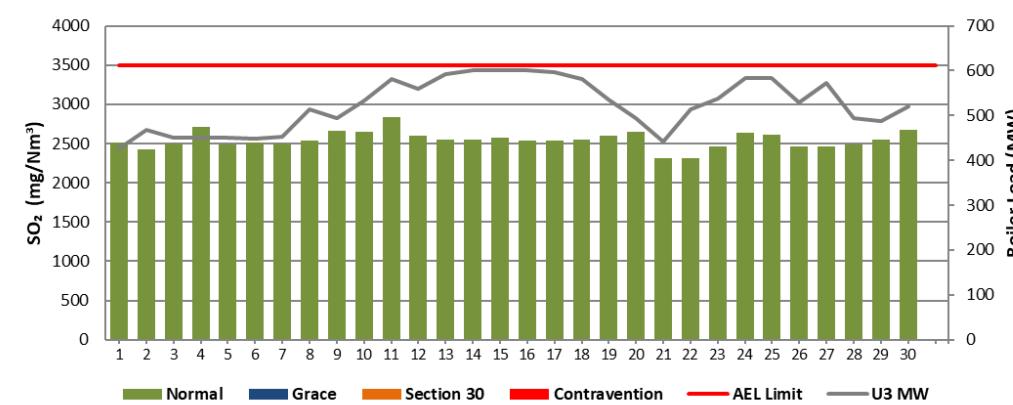


Figure 10: Medupi Unit 4 SO₂ Emissions - April 2026

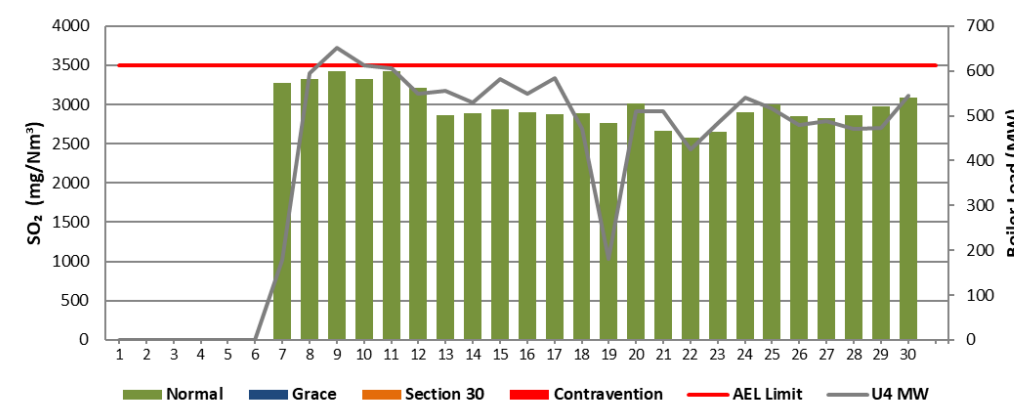


Figure 11: Medupi Unit 5 SO₂ Emissions - April 2026

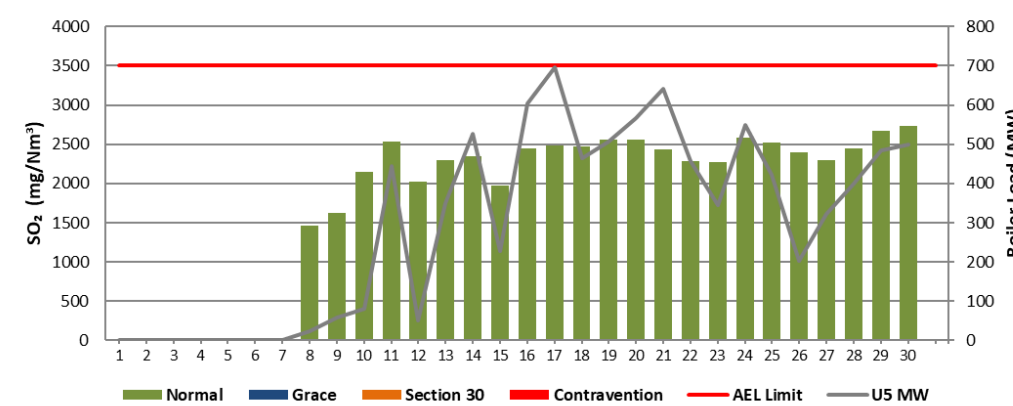
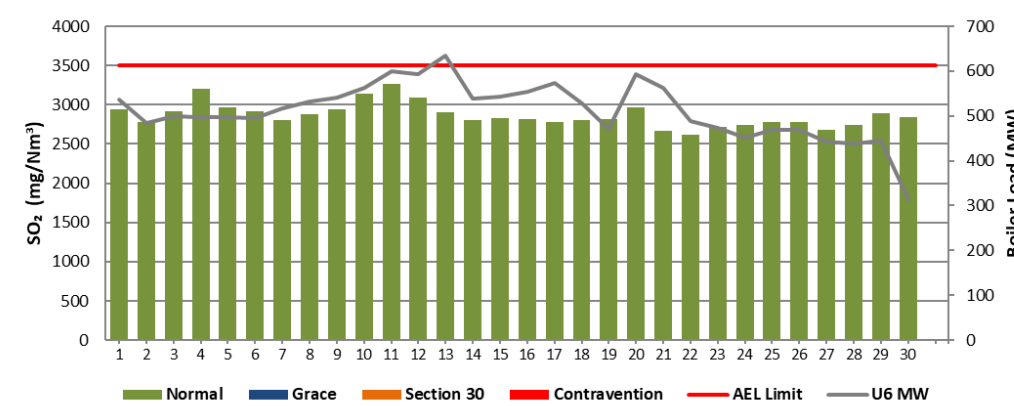
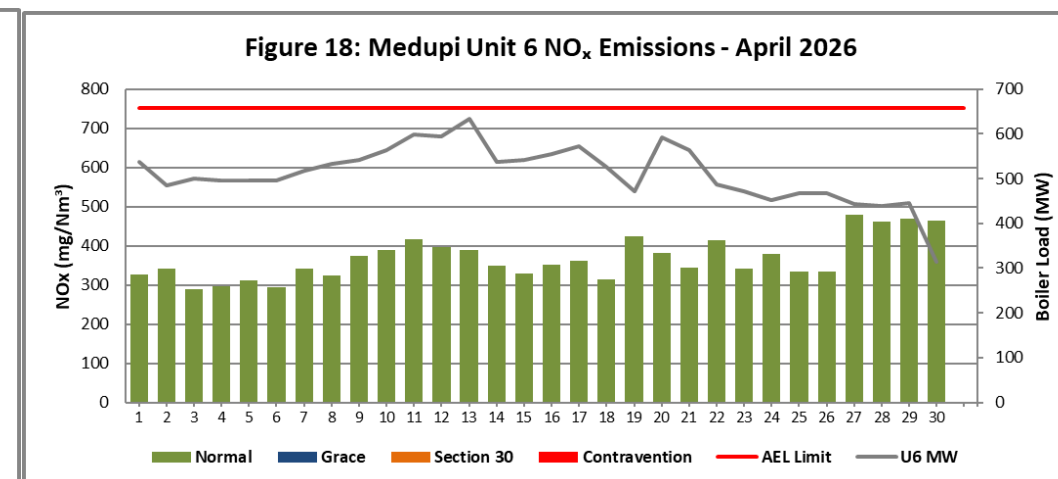
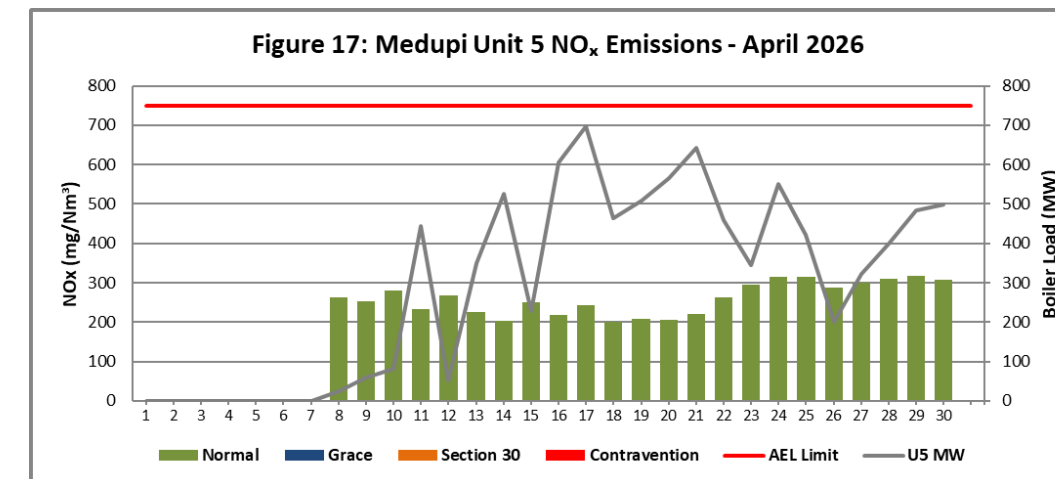
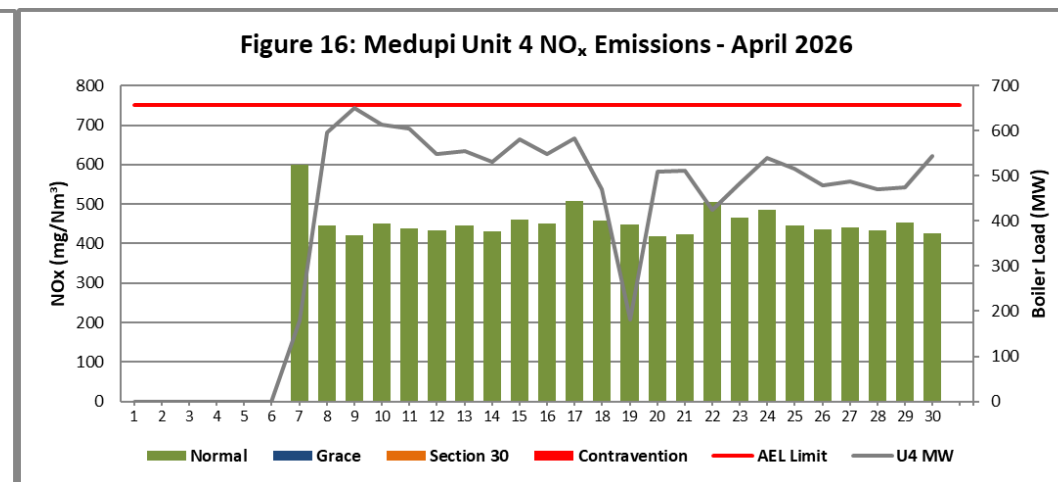
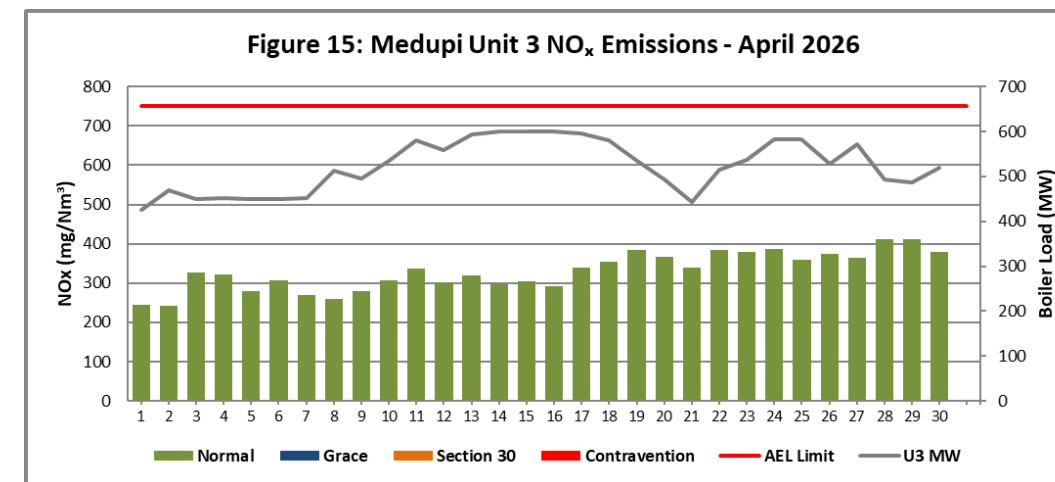
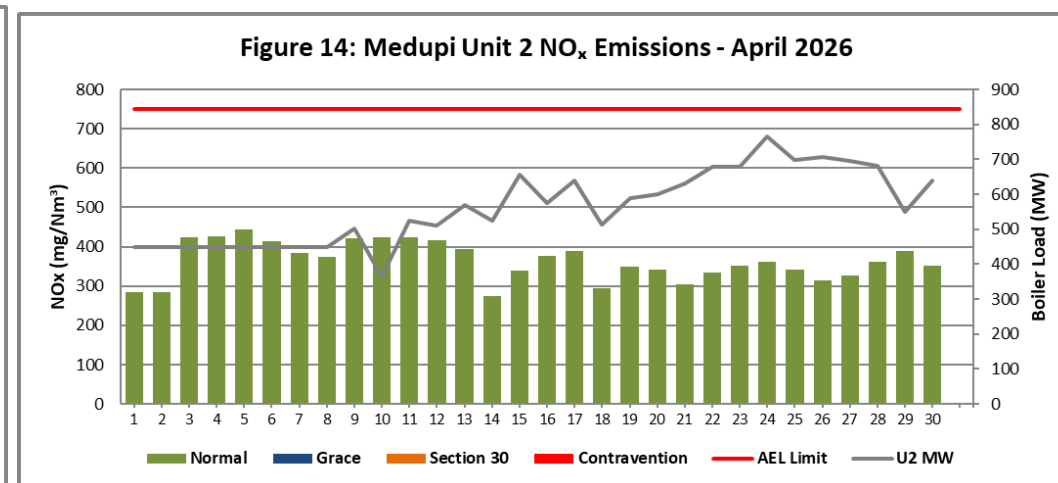
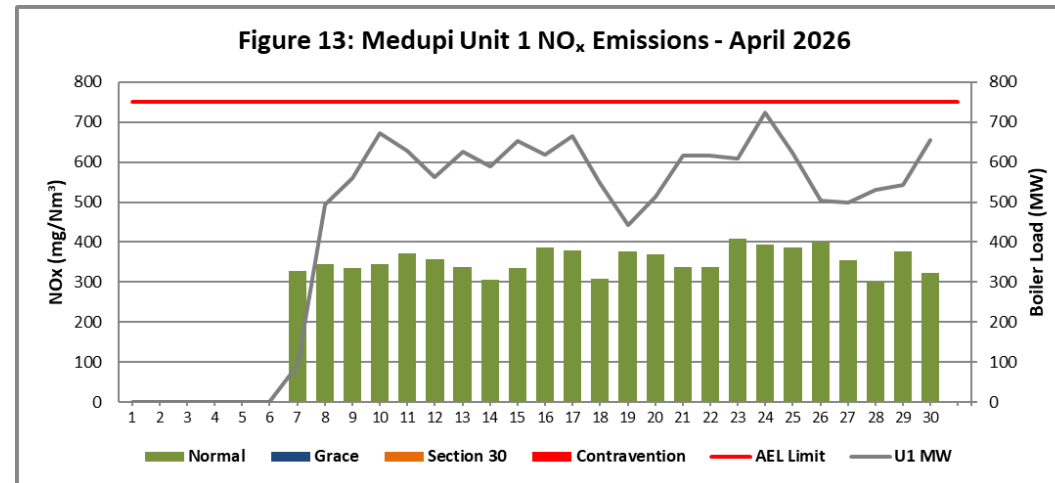


Figure 12: Medupi Unit 6 SO₂ Emissions - April 2026



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4.3 NO_x Daily Averages



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TABLE 5: MONTHLY TONNAGES FOR THE MONTH OF APRIL 2026

Associated Unit/Stack	PM	SO ₂	NO ₂
Unit 1	32.3	5 267	918
Unit 2	42.8	6 781	939
Unit 3	21.0	2 568	334
Unit 4	41.1	4 034	603
Unit 5	12.6	5 063	530
Unit 6	51.4	8 622	1 100
SUM (Tons)	201.22	32 334	4 423

TABLE 6: MONTHLY AVERAGES FOR THE MONTH OF APRIL 2026

Associated Unit/Stack	Average PM (mg/Nm ³)	Average SO ₂ (mg/Nm ³)	Average NO _x (mg/Nm ³)
Unit 1	13.4	2 014.1	354.0
Unit 2	16.0	2 609.4	363.9
Unit 3	21.2	2 548.9	330.6
Unit 4	32.2	2 980.0	455.2
Unit 5	8.2	2 328.5	260.0
Unit 6	16.6	2 867.0	367.3

5. Continuous Emission Monitoring Systems (CEMS)

Unit 1,2,3,4,5 and 6 Continuous Emission Monitoring Systems were always in operation when the unit was on load.

TABLE 7: PERIODS DURING WHICH CEMS WAS INOPERATIVE/MALFUNCTIONING

Date	CEMS status	Comments
No issues		

TABLE 8: CEMS MONITOR RELIABILITY PERCENTAGE (%)

Associated Unit/Stack	PM	SO ₂	NO ₂	O ₂
Unit 1	98.1	98.6	92.9	90.7
Unit 2	98.8	98.6	98.6	98.3
Unit 3	100.0	99.9	85.3	99.9
Unit 4	100.0	99.7	99.7	99.4
Unit 5	100.0	100.0	99.8	94.0
Unit 6	100.0	99.9	99.9	99.7

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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 are in place and are made available upon request. Verification of the CEMS after calibration is conducted internally by Eskom.

7. Ambient Air Quality Monitoring Report

The Ambient Air Quality Monitoring report and Dust Fallout report for the month of April 2026 were submitted in April 2026.

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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TABLE 9: TOTAL VOLATILE ORGANIC COMPOUND (TVOC) FOR APRIL 2026

		
CALCULATION OF EMISSIONS OF TOTAL VOLATILE COMPOUNDS FROM FUEL OIL STORAGE TANKS*		
Date:	Wednesday, 27 May 2026	
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:	April	
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:	4 505	tons/month
Molecular weight of the fuel oil:	166.00	Lb/lb-mole
METEROLOGICAL DATA FOR THE MONTH	Data	Unit
Daily average ambient temperature	20.60	°C
Daily maximum ambient temperature	27.37	°C
Daily minimum ambient temperature	13.11	°C
Daily ambient temperature range	10.46	°C
Daily total insolation factor	3.84	kWh/m²/day
Tank paint colour	Aluminum/Specular	NA
Tank paint solar absorbance	0.39	NA
FINAL OUTPUT:	Result	Unit
Breathing losses:	0.61 kg/month	
Working losses:	0.13 kg/month	
TOTAL LOSSES (Total TVOC Emissions for the month):	0.74 kg/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 Engineers, 85-93 Chevy Chase Street, Jamaica, NY 11432 USA, Tel - 718-454-3920, Fax - 718-454-6330, e-mail - PeressJ@nyc.rr.com.		

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

No awareness campaign was conducted for April 2026.

10. Complaints Register

TABLE 10: COMPLAINTS FOR THE MONTH OF APRIL 2026

Name/ Source Code	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
	No complains were received				

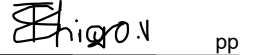
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Compiled By: Fransie Mulaudzi
GIT
Environmental Management



Date: 01/06/2026

Verified by: Malose Langa
System Engineer Boiler

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Date: 19/06/2026

Verified by: Shu Mpangase
System Engineer C&I



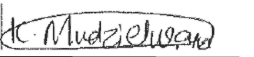
Date: 22/06/2026

Supported by: Mokgadi Dikgale
Environmental Manager

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Date: 02/06/2026

Supported by: Khathu Mudzielwana
Engineering Group Manager



Date: 2026/06/25

I Thozama Gangi, declares that the information provided in this report is accurate and correct.

Yours sincerely

Thozama Gangi
GENERAL MANAGER: MEDUPI POWER STATION

Date: 01/07/2026