

	Monthly Report	Matla Power Station
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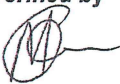


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**Matla Power Station June Monthly Emissions
Report**

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Page: 2 of 13

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Content

1. Introduction.....	4
2. Raw Materials and Products.....	4
3. Abatement Technology.....	4
4. Energy Source Characteristics	5
5. Emissions Reporting.....	5
5.1 PM Daily Averages.....	5
5.2 Sox Daily Averages.....	7
5.3 NOx Daily Averages	9
6. Continuous Emissions Monitoring System (CEMS)	12
7. CEMS Calibration and Equipment Used for Calibration	12
8. Validity of Correlation and Parallel Test.....	12
9. Complaint Register	13

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1. Introduction

MATLA POWER STATION MONTHLY EMISSIONS REPORT FOR THE MONTH OF JUNE 2025

This document serves as the monthly emissions report required in terms of Section 7.6 of Matla Power Station Provisional Atmospheric Emission License (AEL), 17/4/AEL/MP312/11/14

This report reflects Unit 1 to Unit 6 gaseous and particulate emissions performance against the AEL limit for the month of June 2025 only.

2. Raw Materials and Products

Table 1- Quantity of Raw Materials and Products Consumption in 06/2025

Raw Materials and Products used	Raw Material Type	Unit	Maximum Permitted Consumption/ Rate (Quantity)	Consumption – 06/2025
	Coal	Tons/month	1 475 000	710 379
	Fuel Oil	Tons/month	3 500	674
Production Rates	Product/ By-Product Name	Unit	Maximum Production Capacity Permitted (Quantity)	Production Rate in Month of 06/2025
	Energy	GWh	2 745	1 333
	Ash Produced	Tons/month	471 000	195 070

3. Abatement Technology

Table 2-Abatement Equipment Control Technology Efficiency in 06/2025

Associated Unit/Stack	Technology Type	Efficiency	ESP Utilization
South Stack (Unit 1, 2 and 3)	Electrostatic Precipitators (ESP)	99.630%	100%
	Electrostatic Precipitators (ESP)		
	Electrostatic Precipitators (ESP)		
Unit 4	Electrostatic Precipitators (ESP)	99.727%	100%
Unit 5	Electrostatic Precipitators (ESP)	99.753%	100%
Unit 6	Electrostatic Precipitators (ESP)	Off	Off

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

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4. Energy Source Characteristics

Table 3: Energy Source Material Characteristics for 06/2025

Characteristic	Stipulated Range (% by weight on a dry basis)	Monthly Average Content (% by weight on a dry basis)
	Coal	
Sulphur Content	0.8-1.1	0.91
Ash Content	21-40	27.46

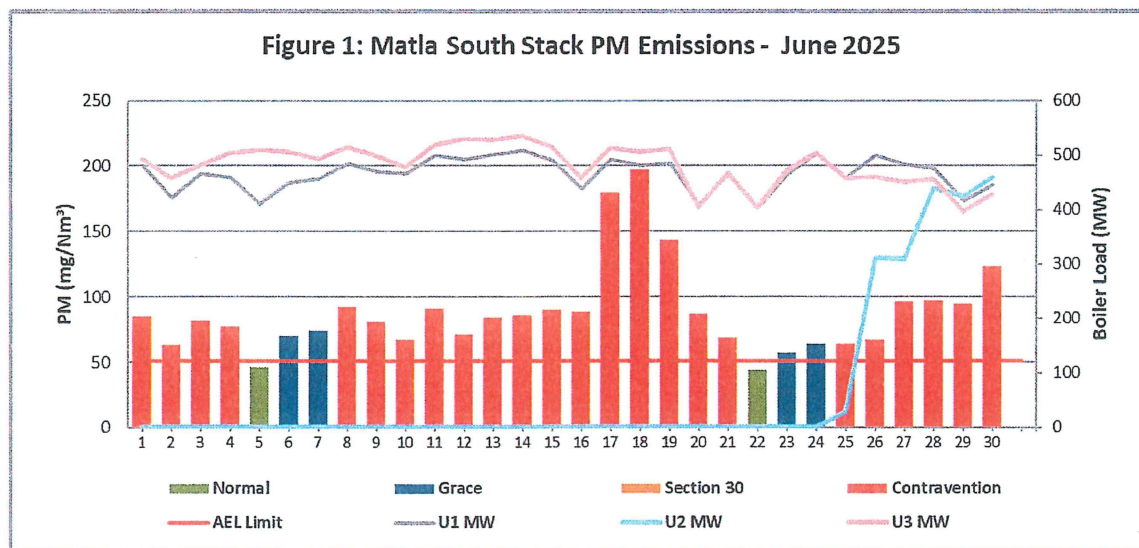
5. Emissions Reporting

In terms of Section 59 of National Environmental Management: Air Quality Act (Act no.39 of 2004) a decision made by the Minister of DFFE, in respect of the Eskom exemption applications for new Minimum Emission Standards (MES) were granted and effective as of 01st April 2025.

Table 4- New Minimum Emission Limits are as follows:

SO ₂ Monthly = 2600 mg/Nm ³	Dust Daily= 50 mg/Nm ³ (South Stack) Dust Daily= 100 mg/Nm ³ (Unit 4, 5 and 6)	NO ₂ Daily= 1100 mg/Nm ³
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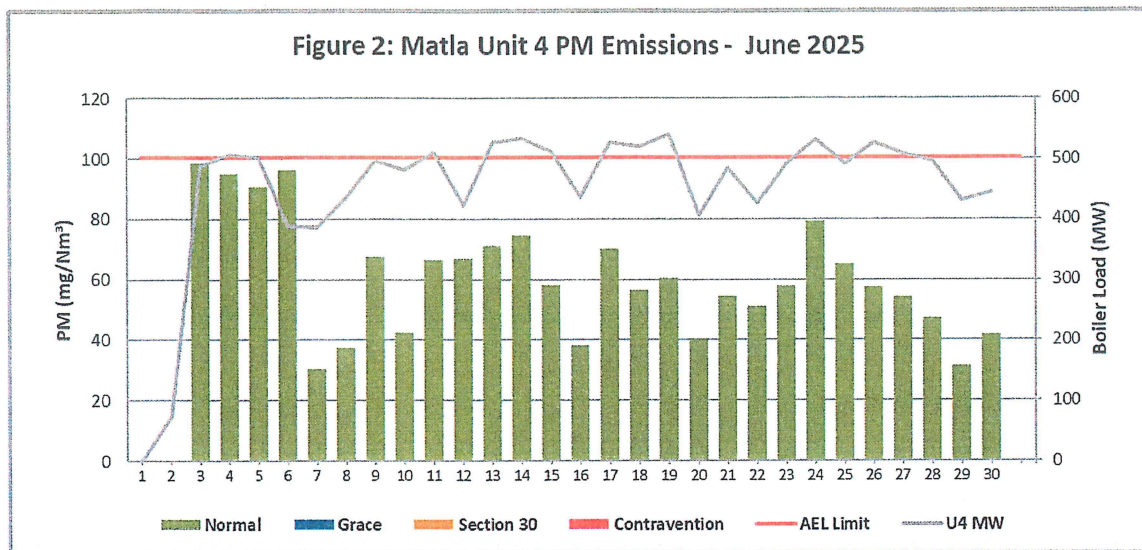
5.1 PM Daily Averages



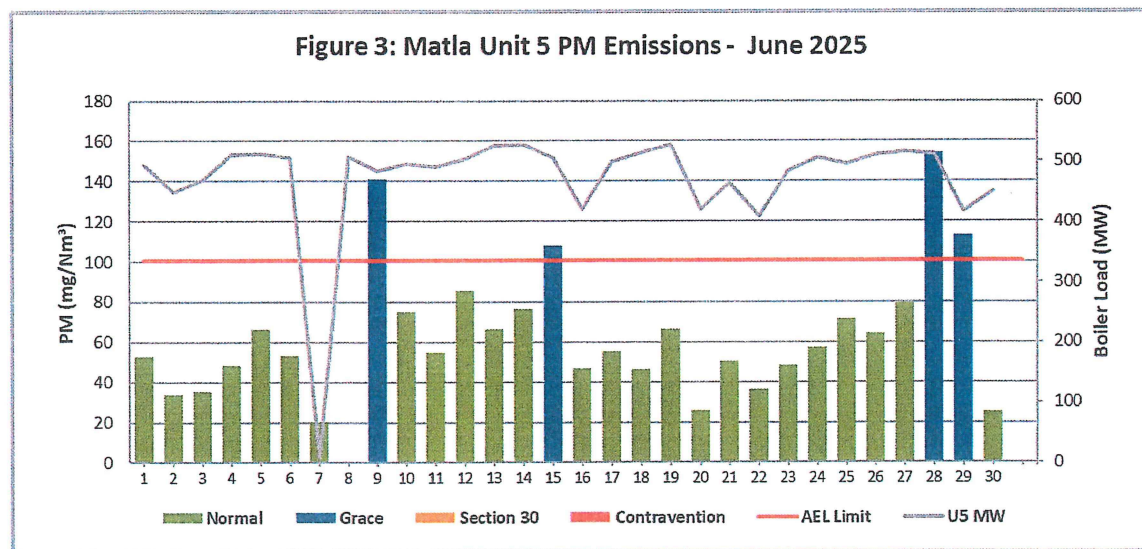
Matla Power Station South Stack exceeded PM MES limit of 50mg/Nm³ from the 01st – 04th, 08th – 21st and from 25th -30th of June 2025. Matla Power Station South Stack units are still struggling to operate within limit on full load. The station has submitted a letter to the Nkangala District Municipality

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licensing Officer on the challenges and actions that are being taken to address the stations non-compliance of the South Stack to the MES limits.



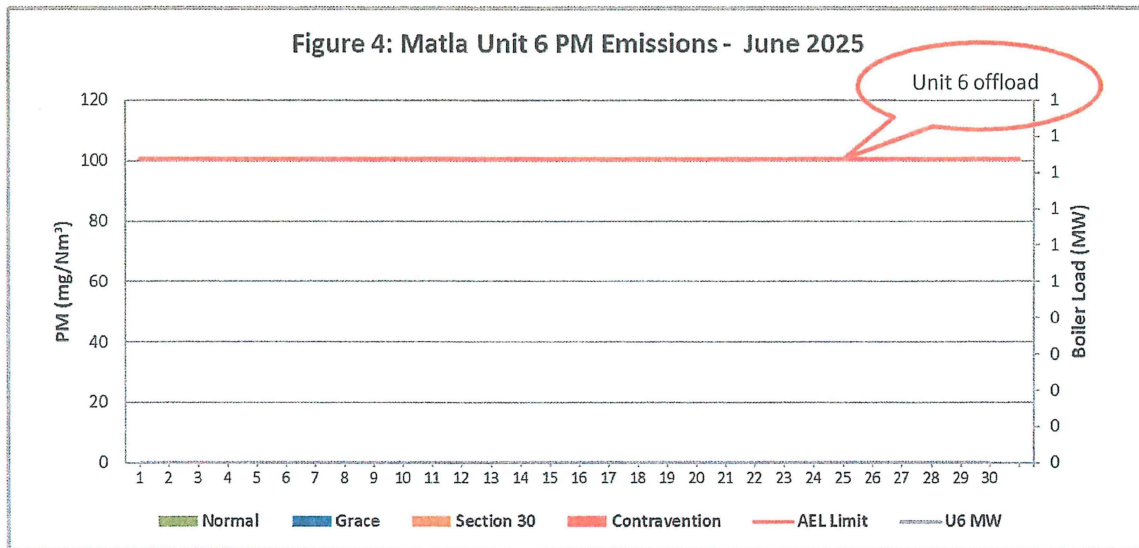
Matla Power Station Unit 4 did not exceed PM MES limit of 100 mg/Nm³ for the month of June 2025.



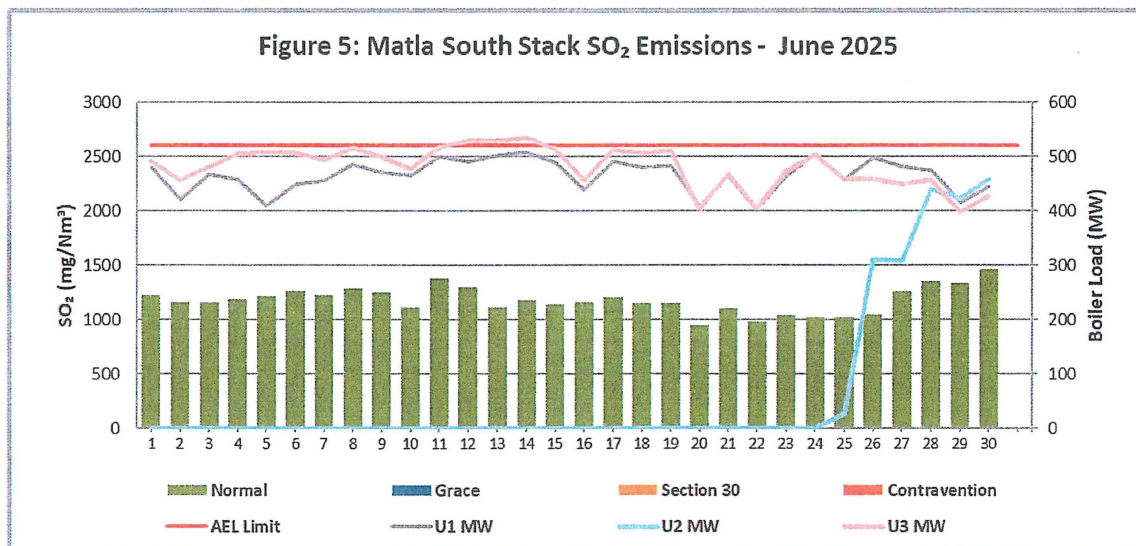
Matla Power Station Unit 5 exceeded PM MES limit of 100 mg/Nm³ during the period on the 09th, due to unit hot light up, on the 15th due to poor precip performance and on the 28th and the 29th of June 2025, exceedances were due to the blocked and defective SO₃ flow meter.

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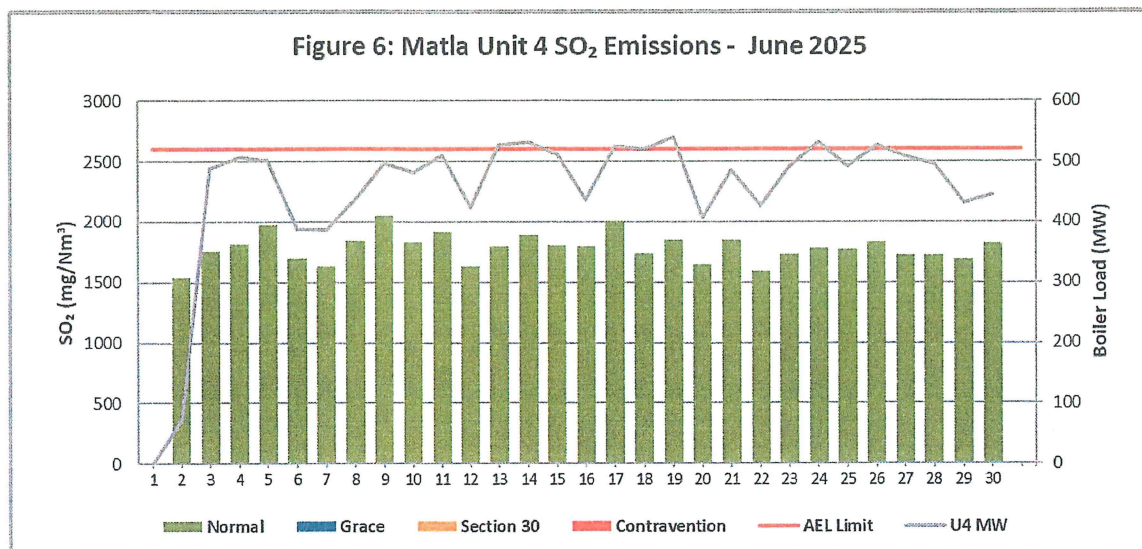
5.2 Sox Daily Averages



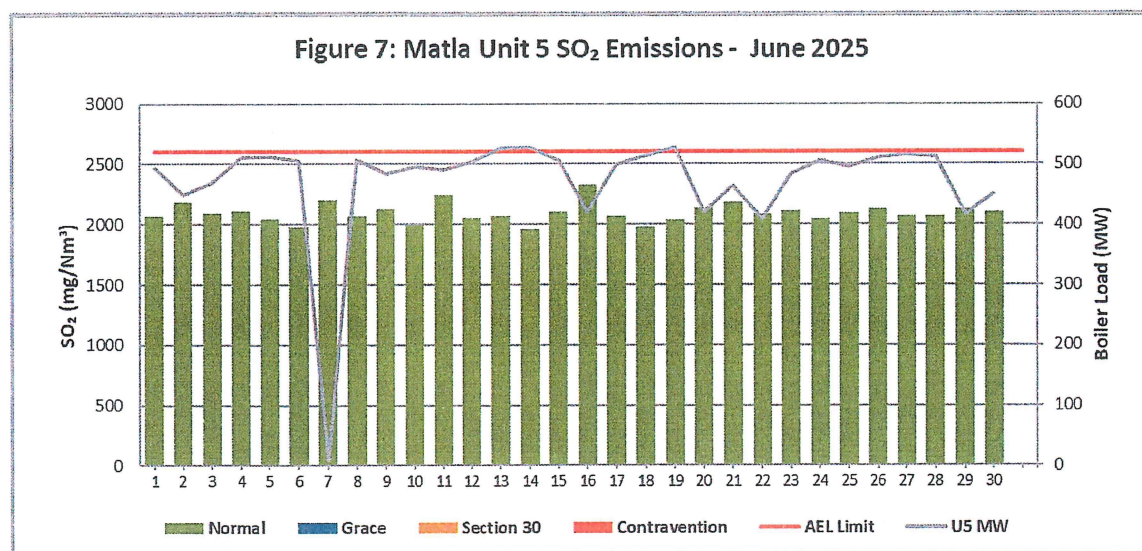
Note: Matla Power Station did not exceed SOX Limit.

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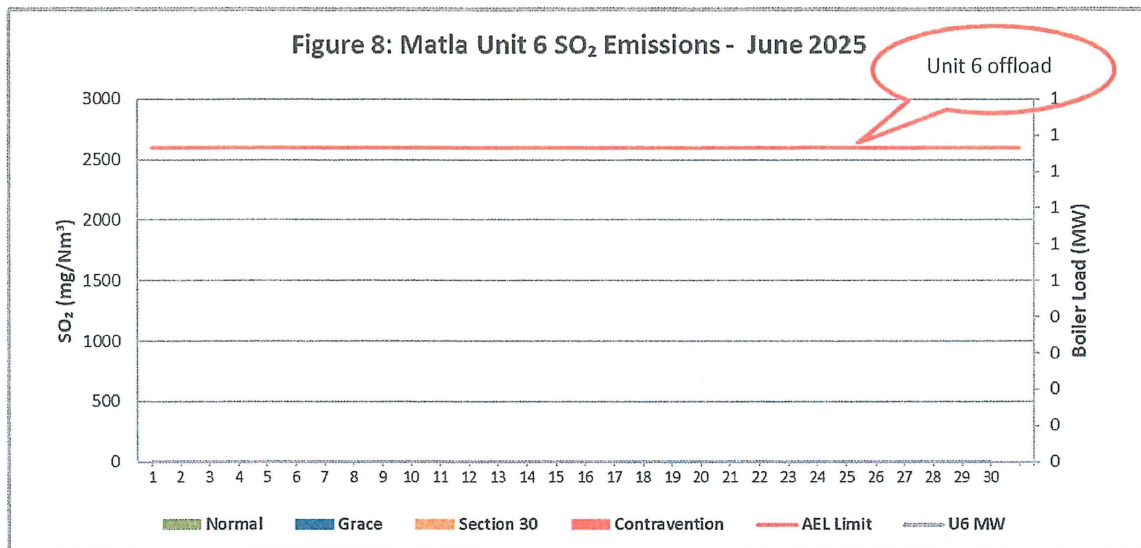
Note: Matla Power Station did not exceed SOX Limit.



Note: Matla Power Station did not exceed SOX Limit.

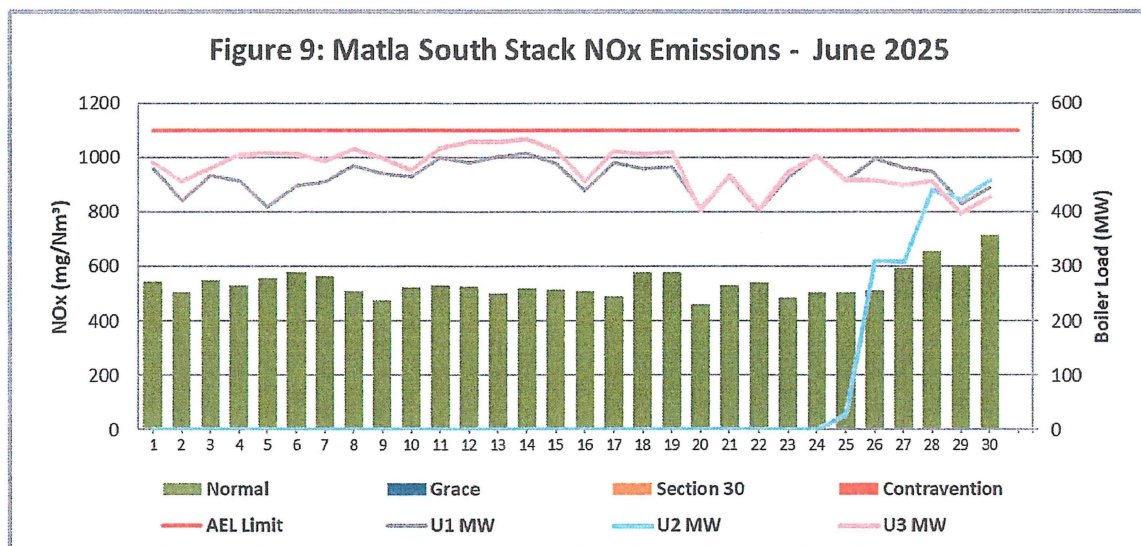
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Note: Matla Power Station did not exceed SOX Limit.

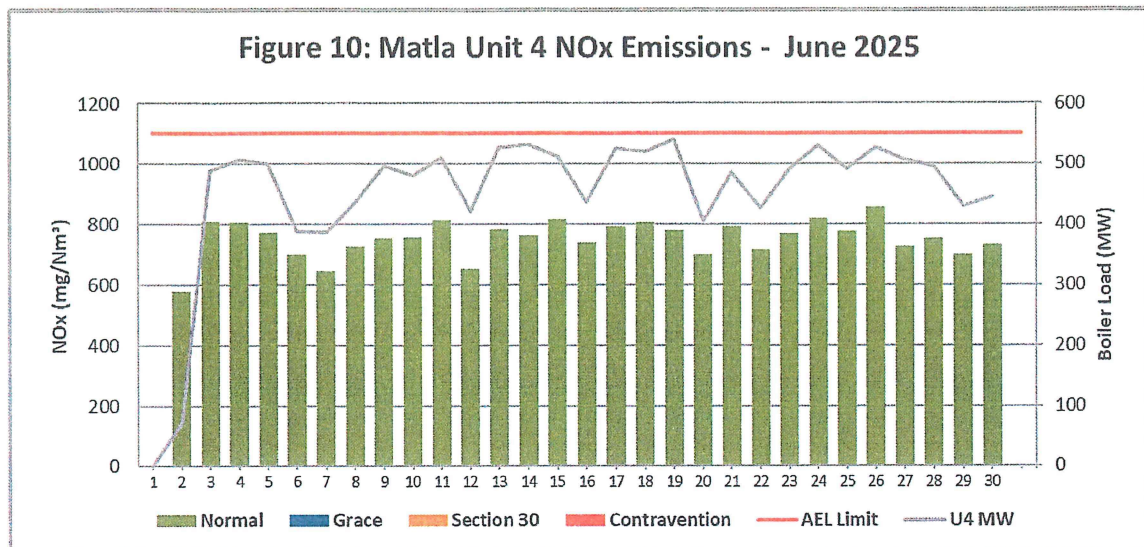
5.3 NO_x Daily Averages



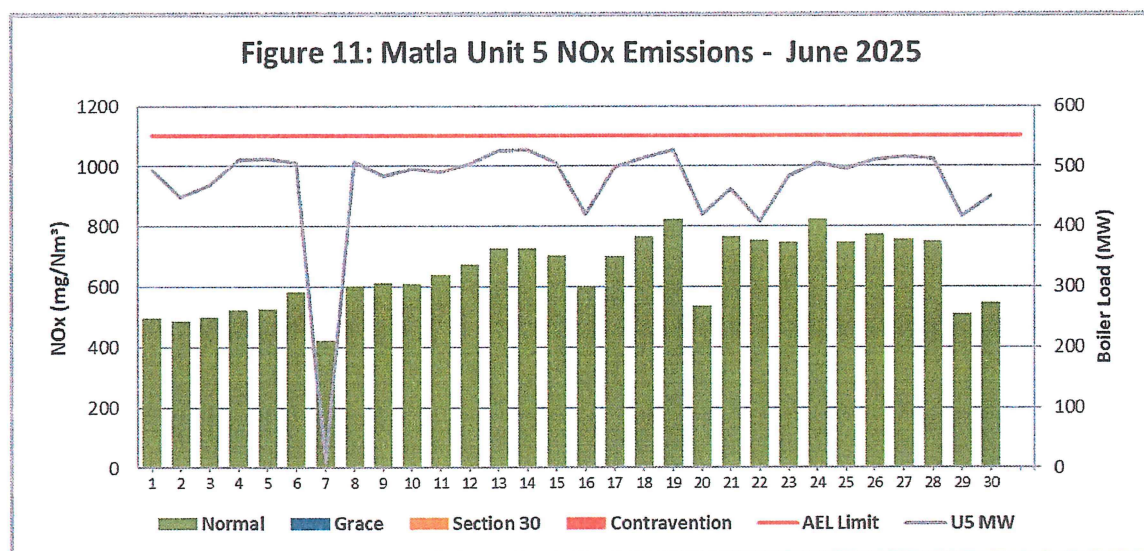
Note: Matla Power Station did not exceed NOX Limit.

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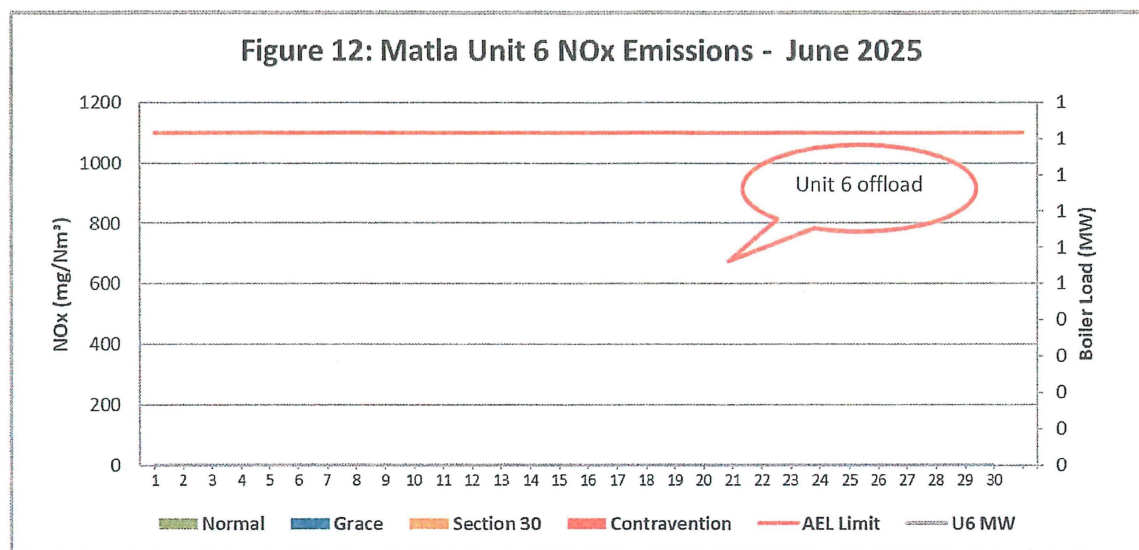
Note: Matla Power Station did not exceed NOX Limit.



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Note: Matla Power Station did not exceed NOX Limit.

Table 5-Monthly Tonnages for 06/2025

Associated Unit/Stack	PM	SO ₂	NO ₂
Unit 1	168.7	2 259.8	1 030.6
Unit 2	22.9	302.6	143.6
Unit 3	155.7	2 097.2	956.7
Unit 4	106.4	3 183.2	1 347.9
Unit 5	105.1	3 309.6	1 049.4
Unit 6	Off	Off	Off
SUM	558.8	11 152.3	4 528.1

Table 6-Monthly Averages Concentration for 06/2025 in mg/Nm³

Associated Unit/Stack	PM	SO ₂	NO ₂
South Stack	87.7	1 182.1	539.8
Unit 4	60.8	1 784.3	753.8
Unit 5	64.1	2 094.5	648.2
Unit 6	Off	Off	Off

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6. Continuous Emissions Monitoring System (CEMS)

Table 7- Periods during which was inoperative/malfunctioning.

Date	CEMS status	Comments
June 2025	Malfunctioning	<p>The station gas monitors have been reading inaccurately for South Stack and Unit 4, however parallel tests averages were used for the purpose of accurate reporting of the gases during this reporting period.</p> <p>The station is in a process of sourcing some of components for the gas monitors such Lenses, Zirconium cells for O₂ and Heater gaskets to improve the Monitor reliability and CO₂+O₂ relationship hence the Monitor reliability is not reported on the table above.</p>

Table 8-CEMS Monitor Reliability Percentage

Associated Unit/Stack	PM	SO ₂	NO ₂	O ₂
South Stack	98.0	-	-	-
Unit 4	100.0	-	-	-
Unit 5	99.1	99.9	99.9	99.9
Unit 6	Off	Off	Off	Off

Note: Parallel tests averages were used on South Stack for the purpose of accurate reporting of the gases. The station is in a process of sourcing some of components for the gas monitors such Lenses, Zirconium cells for O₂ and Heater gaskets to improve the Monitor reliability and CO₂+O₂ relationship hence the Monitor reliability is not reported on the table above.

7. CEMS Calibration and Equipment Used for Calibration

Calibration certificates to be made available upon request.

8. Validity of Correlation and Parallel Test

Table 9-Validity of Correlation and Parallel Test.

Associated Unit/Stack	Correlation Test (PM)	Parallel Test (NO ₂ , CO ₂ , O ₂ , SO ₂)
South Stack	Valid until 27 February 2027	Valid until 30 October 2025
Unit 4	Valid until 19 May 2025	Valid until 11 May 2027
Unit 5	Valid Until 25 August 2026	Valid until 29 May 2027
Unit 6	Valid until 02 August 2026	Valid until 30 June 2025

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9. Complaint Register

Table 10-Complaints for the month of 06/2025

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	Action taken to resolve the complaint	Date when the action was implemented.
N/A	N/A	N/A	N/A	N/A	N/A

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