

 Eskom	Monthly Report	Matla Power Station
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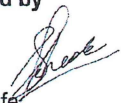
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Compiled by  M.P. Chipa	Verified by  John Khoza	Verified by  P.P. N Molefe	Supported by  L.A. Murovhi
Initials and Surname Officer Environmental	Initials and Surname Boiler Engineer	Initials and Surname C&I System Engineer	Initials and Surname Environmental Manager (Acting)
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**Matla Power Station September Monthly
Emissions Report**

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Page: **2 of 13**

Supported by



J Makuleka

Supported by



K Mangope

Supported by



L Ngobese

Authorized by



B Phahle

Initials and Surname

**Boiler Engineering
Manager**

Initials and Surname

**C&I Engineering
Manager**

Initials and Surname

**Engineering Group
Manager**

Initials and Surname

**General Manager
(Acting)**

Date: 27/10/2025

Date: 28/10/2025

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Date: 2025/10/29

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 SEPTEMBER 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 September 2025 only.

2. Raw Materials and Products

Table 1- Quantity of Raw Materials and Products Consumption in 09/2025

Raw Materials and Products used	Raw Material Type	Unit	Maximum Permitted Consumption/ Rate (Quantity)	Consumption – 09/2025
	Coal	Tons/month	1 475 000	702 589
	Fuel Oil	Tons/month	3 500	553
Production Rates	Product/ By-Product Name	Unit	Maximum Production Capacity Permitted (Quantity)	Production Rate in Month of 09/2025
	Energy	GWh	2 745	1 181
	Ash Produced	Tons/month	471 000	194 055

3. Abatement Technology

Table 2-Abatement Equipment Control Technology Efficiency in 09/2025

Associated Unit/Stack	Technology Type	Efficiency	ESP Utilization
South Stack (Unit 1, 2 and 3)	Electrostatic Precipitators (ESP)	99.836%	100%
	Electrostatic Precipitators (ESP)	99.822%	
	Electrostatic Precipitators (ESP)	99.876%	
Unit 4	Electrostatic Precipitators (ESP)	99.573%	100%
Unit 5	Electrostatic Precipitators (ESP)	99.812%	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 09/2025

Characteristic	Stipulated Range (% by weight on a dry basis)	Monthly Average Content (% by weight on a dry basis)
Coal		
CV Content	16-24	19.76
Sulphur Content	0.8-1.1	0.80
Ash Content	21-40	27.84

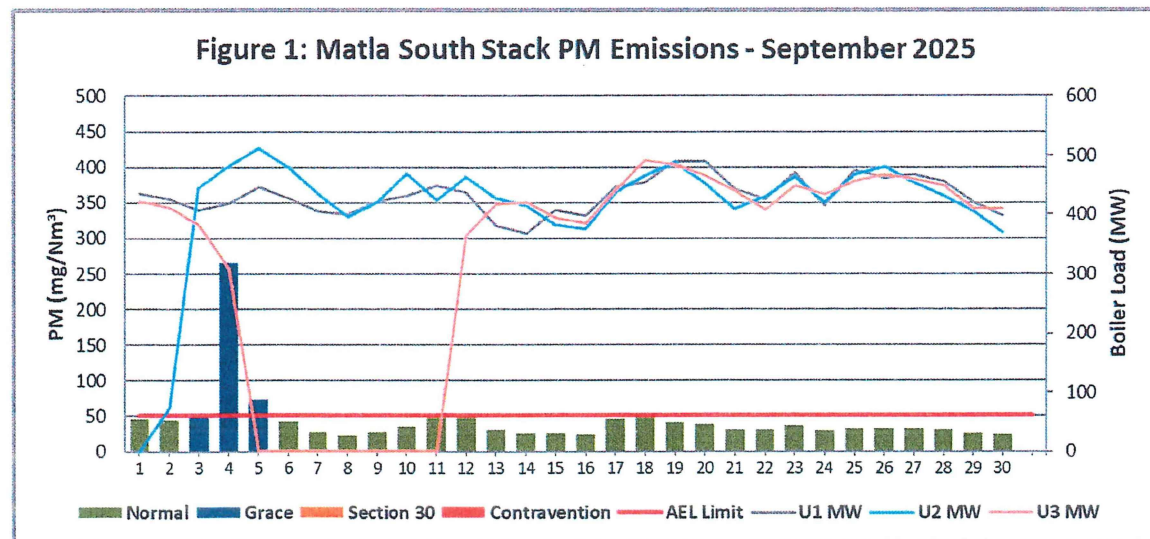
5. Emissions Reporting

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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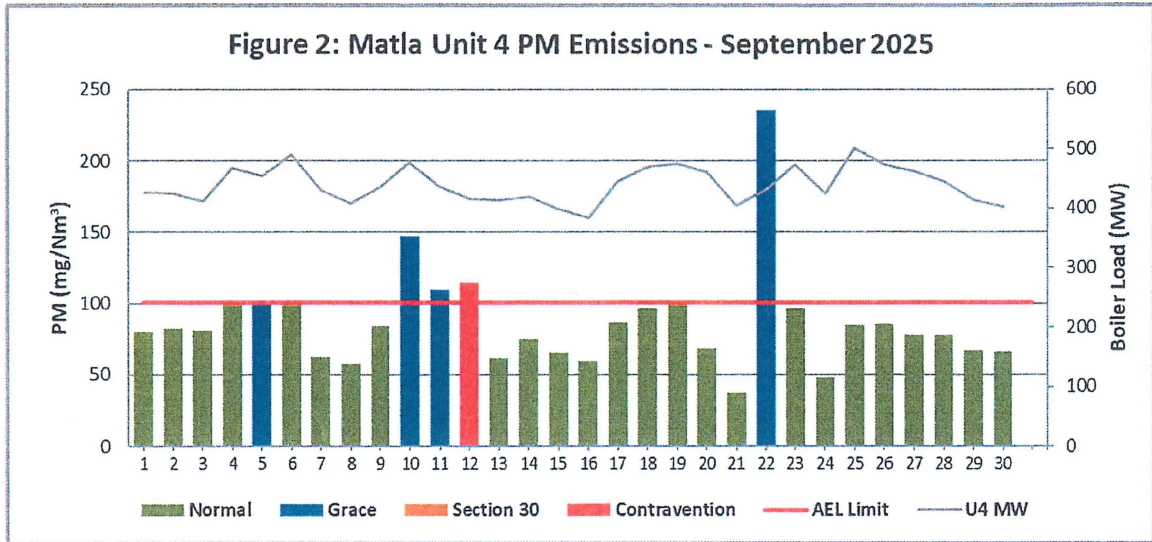
5.1 PM Daily Averages



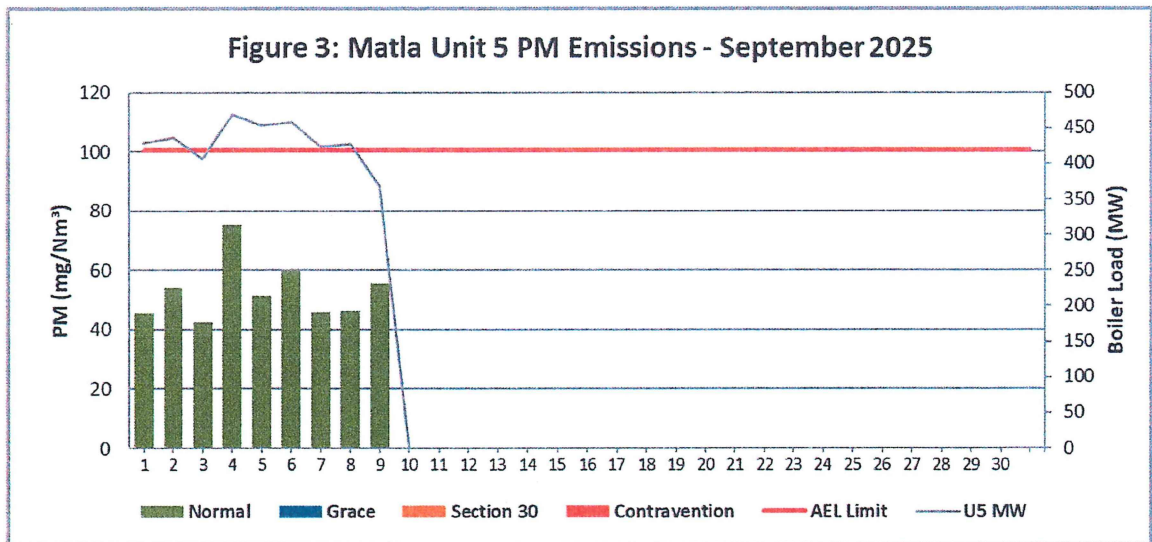
Matla Power Station South Stack exceeded PM MES limit of 50mg/Nm³ on the 03rd of September 2025 due to Unit 2 light up and from 03rd of September 2025, the exceedances were due to Unit 3 shutdown. The exceedances were within a grace period.

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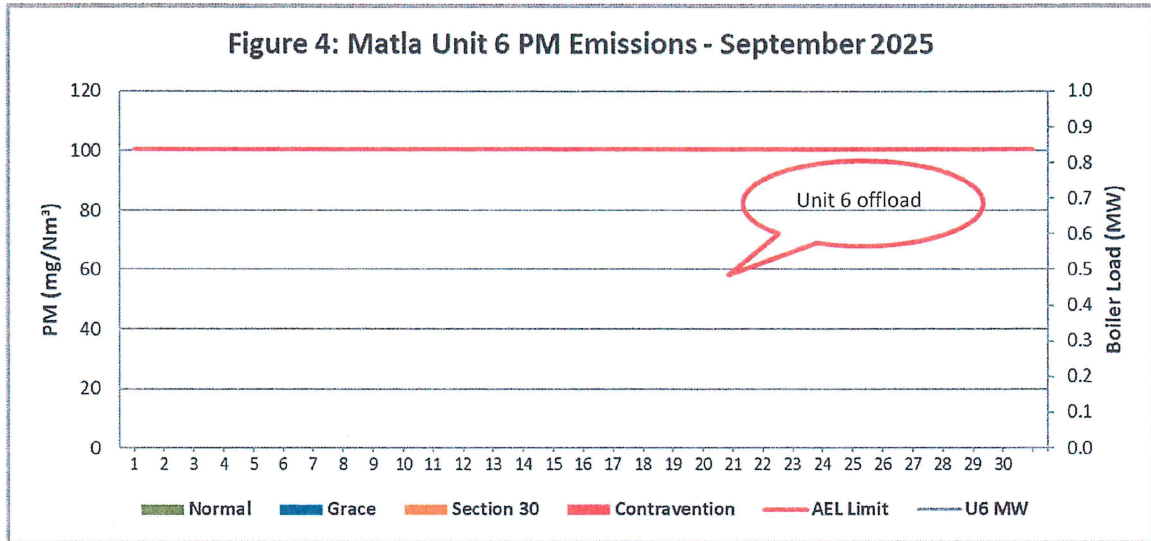
Matla Power Station Unit 4 exceeded PM MES limit of 100 mg/Nm³ from 10 – 12 September 2025 due to Low injection of sulphur and poorly performing precip. The station incurred a Legal Contravention for this incident. The station exceeded PM MES limit of 100 mg/Nm³ on the 5 and 22 September 2025 due to poorly performing precip fields when the unit operates at full load.



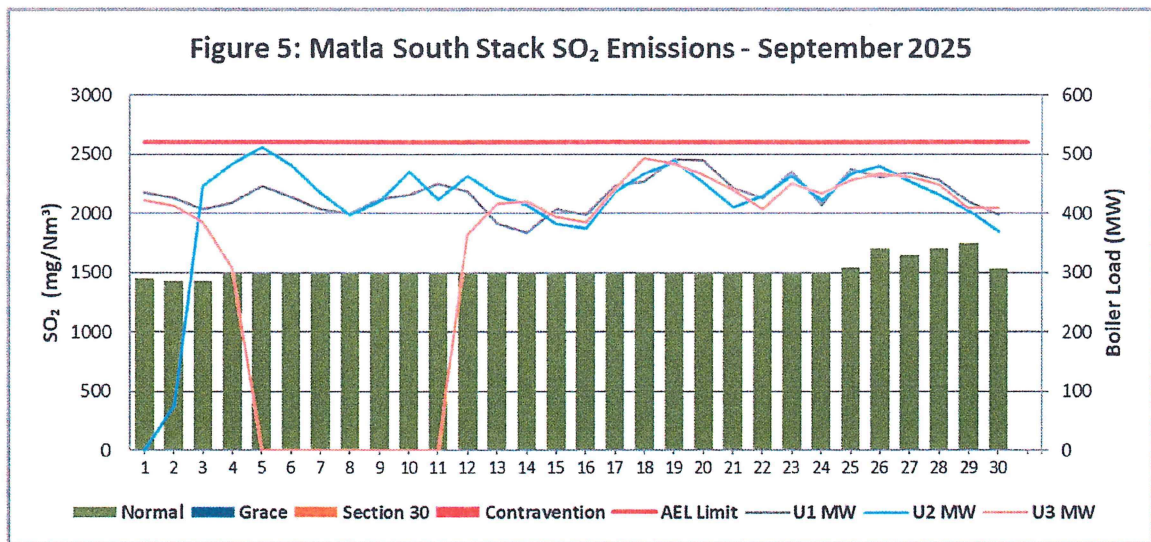
Note: Matla Power Station Unit 5 did not exceed PM limit.

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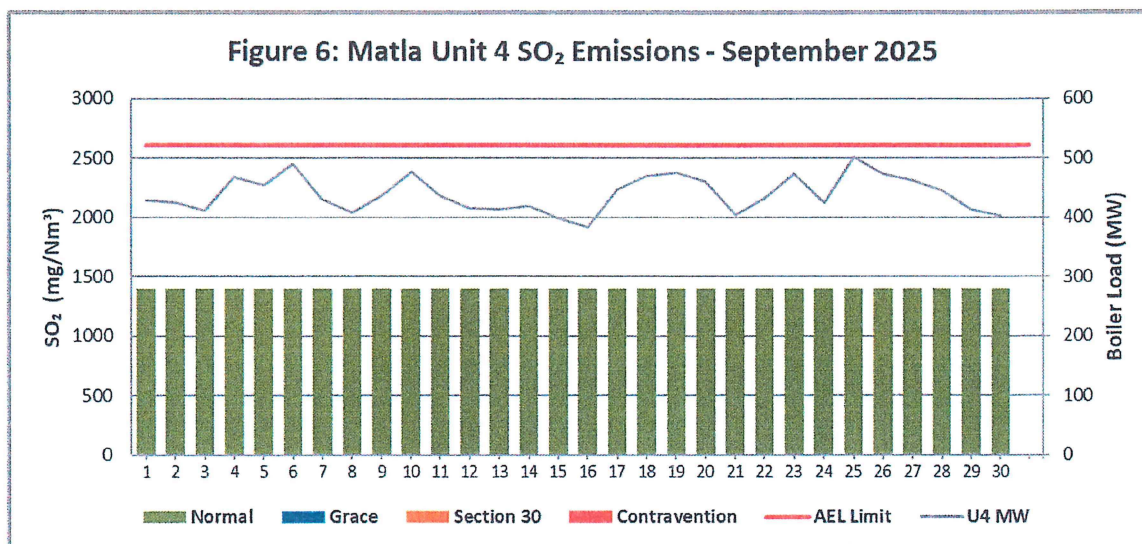
5.2 SOx Daily Averages



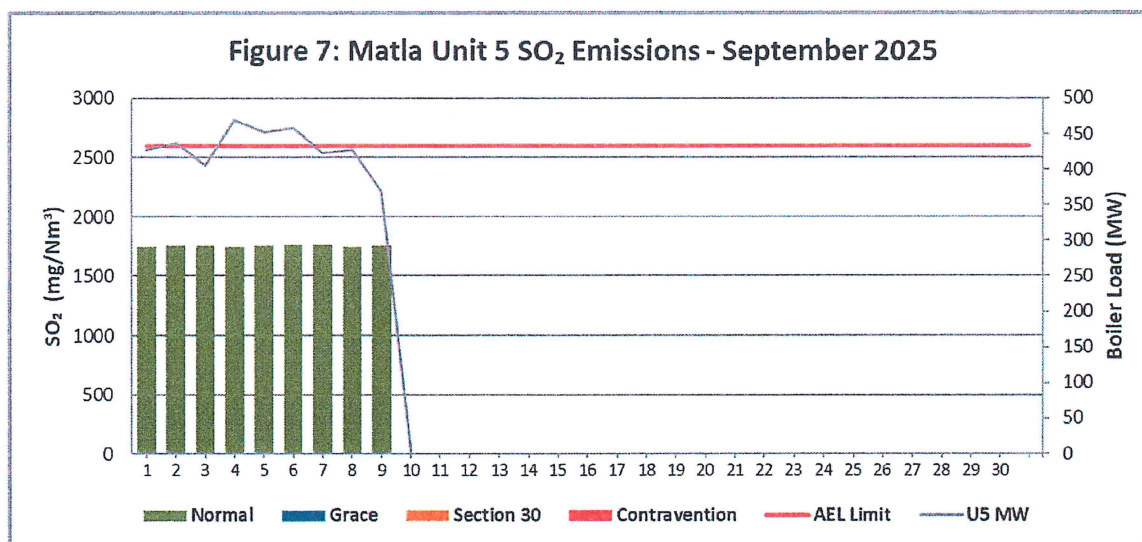
Note: Matla Power Station South Stack did not exceed SO_x limit.

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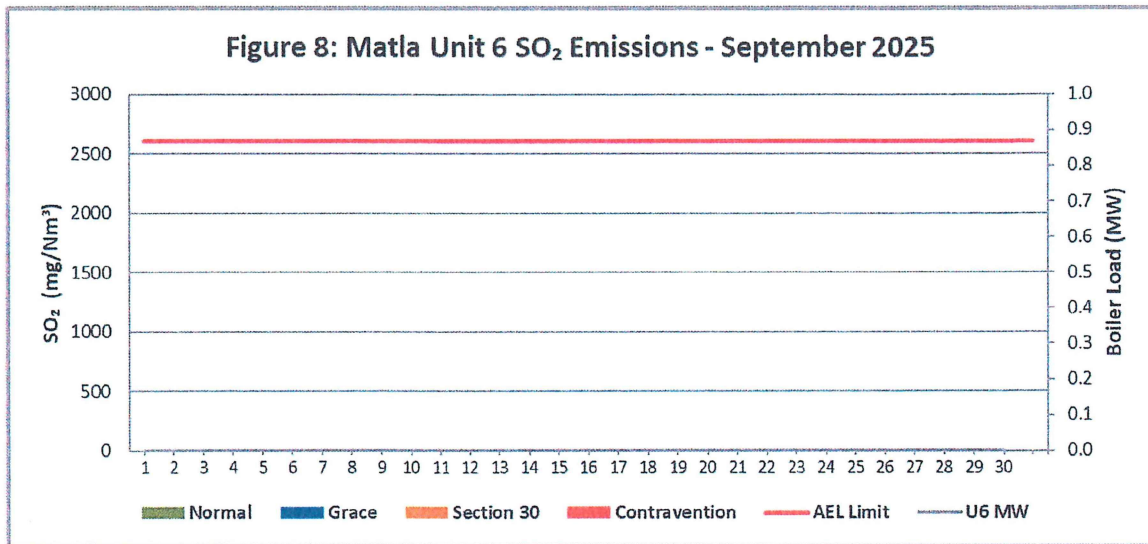
Note: Matla Power Station Unit 4 did not exceed SO_x limit



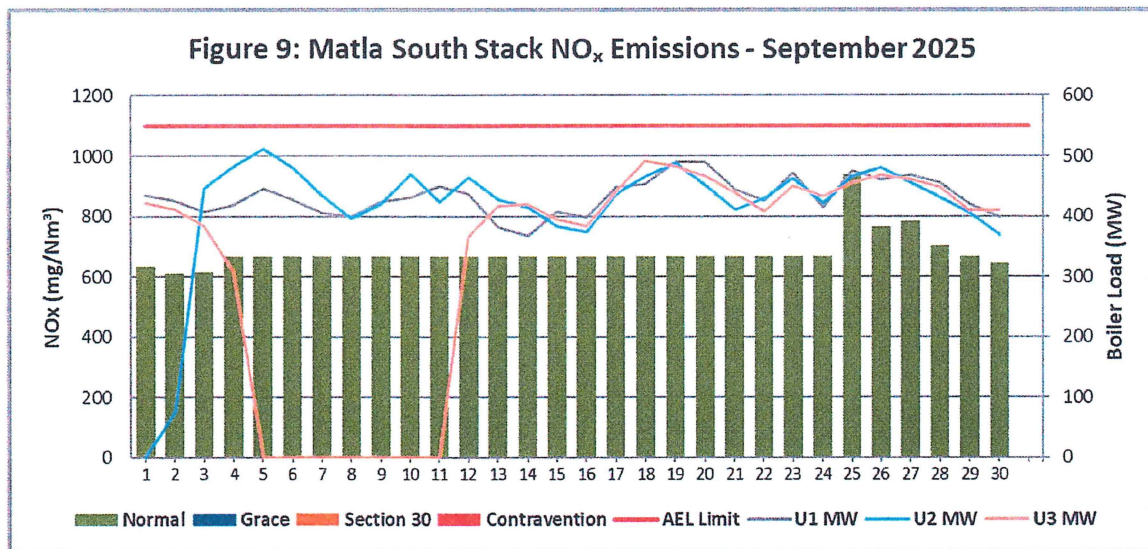
Note: Matla Power Station Unit 5 did not exceed SO_x limit

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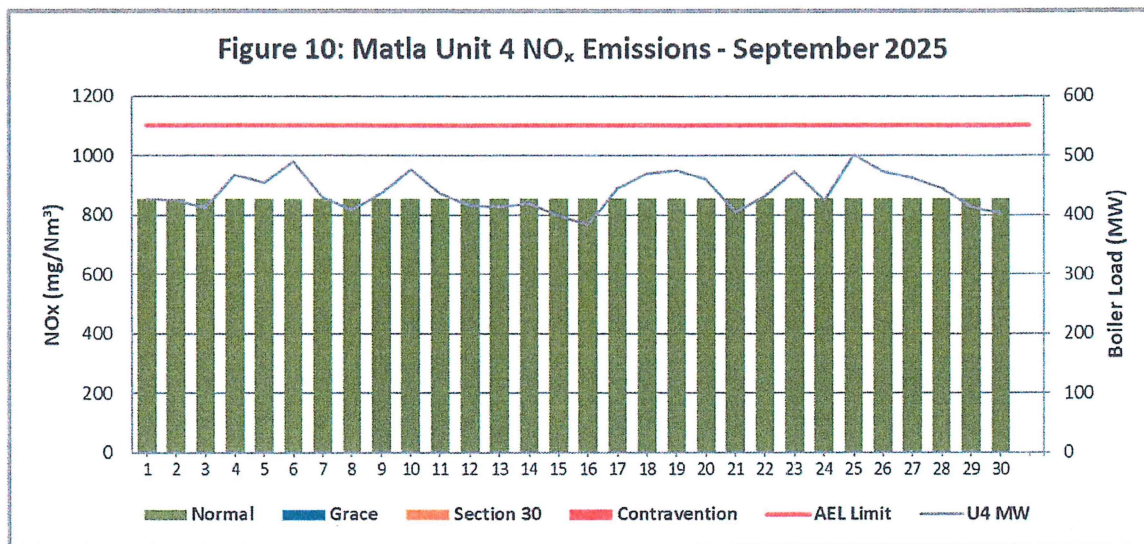
5.3 NO_x Daily Averages



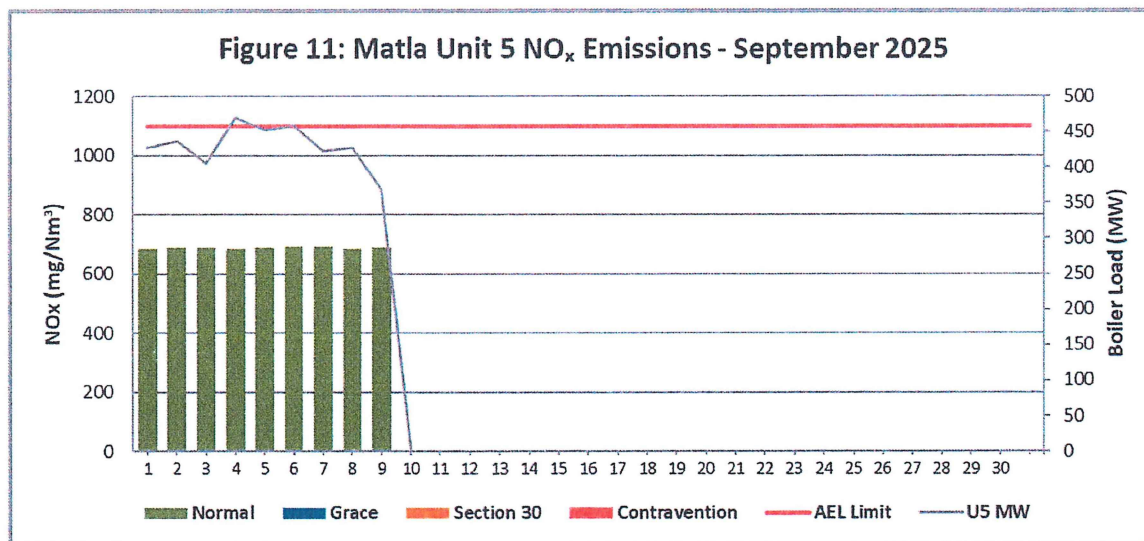
Note: Matla Power Station South Stack did not exceed NO_x limit

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Note: Matla Power Station Unit 4 did not exceed NO_x limit



Note: Matla Power Station Unit 5 did not exceed NO_x limit

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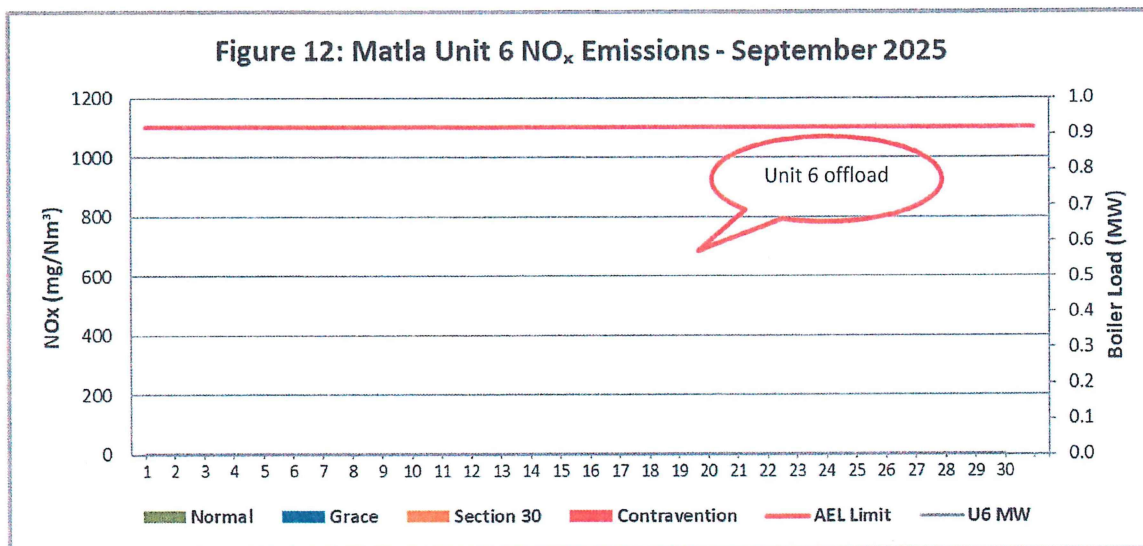


Table 5-Monthly Tonnages for 09/2025

Associated Unit/Stack	PM	SO ₂	NO ₂
Unit 1	77.3	2 643	1 189
Unit 2	71.7	2 469	1 113
Unit 3	40.5	1 939	872
Unit 4	177.7	2 786	1 704
Unit 5	24.3	761	298
Unit 6	Off	Off	Off
SUM	391.59	10 598	5 177

Table 6-Monthly Averages Concentration for 09/2025 in mg/Nm³

Associated Unit/Stack	PM	SO ₂	NO ₂
South Stack	43.9	1 514.3	679.6
Unit 4	86.8	1 400.9	857.0
Unit 5	53.0	1 755.1	687.0
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
September 2025	Malfunctioning	The station gas monitors have been reading inaccurately for South Stack, Unit 4 and Unit 5 however parallel tests averages were used for the purpose of accurate reporting of the gases during this reporting period. The station has placed a contract for gas monitors for 3 years. 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 below.

Table 8-CEMS Monitor Reliability Percentage

Associated Unit/Stack	PM	SO ₂	NO ₂	O ₂
South Stack	98.9	-	-	-
Unit 4	100.0	-	-	-
Unit 5	100.0	-	-	-
Unit 6	Off	Off	Off	Off

Note: Parallel tests averages were used 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 11 August 2025 (Spot check curve). Full correlation test couldn't be performed due to plant performance.	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 (Unit offload)

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9. Complaint Register

Table 10-Complaints for the month of 09/2025

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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