

The Municipal Manager  
Gert Sibande District Municipality  
PO Box 1748  
ERMELO  
2350

Date: 19 January 2026

Enquiries: M.P Chipa

Tel +27 17 749 9596

E-mail: [records@gsibande.gov.za](mailto:records@gsibande.gov.za)  
Email: BulelwaS@gsibande.gov.za

Dear Ms Mthembu

#### **TUTUKA POWER STATION MONTHLY REPORT FOR DECEMBER 2025**

This serves as the monthly report required in terms of Section 7.4 of Tutuka Power Station's Atmospheric Emission License (13/19/1/Lekwa/Eskom H SOC Ltd TPS/0013/2025/f04). The report includes verified emissions for Particulate Matters, Sulphur, and Nitrogen dioxides for the month of December 2025.

The report presents monthly trends for each monitored pollutant. The Station had 3 Units onload for the month of December 2025, Units 1, 2, and 4. Unit 1 was available for 8 days, Unit 2 was available for 14 days, Unit 4 was available for 29 days.

New Monitors, for both PM and Gaseous, were installed on Unit 1 & 2 from the 21<sup>st</sup> of October 2025 onwards.

Gases: Unity factors were used in the factors tab and data from the monitors was retained in producing the report. However, where necessary surrogate values from the previous QAL2 were used.

PM: The previous three months' (August, September and October,) average values were used on both Unit 1 and 2. For Unit 4 the previous three months' (September, October and November) average values were used. Therefore, these emissions will be re-instated when the station receives the QAL2 factors and correlation curves for the new monitors on the three Units. The station exceeded the PM monthly average limit of 200 mg/Nm<sup>3</sup> at Unit 2 due to the three-monthly average data used, which is not the true reflection of how the plant operates and will be restated once correlation curves are implemented and the station will re-report.

Once the correlation curves and the QAL2 factors, these emissions will be restated by the station.

The station did not exceed the SO<sub>x</sub> and NO<sub>x</sub> limits in the month of November 2025 reporting period.



## TUTUKA POWER STATION MONTHLY REPORT FOR DECEMBER 2025

### 1 RAW MATERIALS AND PRODUCTS

Raw Materials and Products	Raw Material Type	Units	Max. Permitted	Actual Consumption Oct-2025
	Coal	Tons	1 200 000	256 219
	Fuel Oil	Tons	8 000	2125.830

Production Rates	Product / By-Product Name	Units	Max. Production Capacity Permitted	Indicative Production Rate Oct-2025
	Energy	GWh	2 719	515.410
	Ash	Tons	500 000	63 388.630
	RE Ash	kg/MWh	not specified	0.767

Note: Maximum energy rate is as per the maximum capacity stated in the AEL: [3 510 MW] x 24 hrs x days in Month/1000 to convert to GWh

### 2 ENERGY SOURCE CHARACTERISTICS

Coal Characteristics	Units	Stipulated Range	Monthly Average Content
CV Content	MJ/kg	16-24	22.250
Sulphur Content	%	0.6 TO 2.6	1.030
Ash Content	%	21 TO 33	24.740

### 3 EMISSION LIMITS (mg/Nm<sup>3</sup>)

Associated Unit/Stack	PM Daily	SO <sub>2</sub>	NO <sub>x</sub>	PM Monthly
Unit 1	300	3000	1100	200
Unit 2	300	3000	1100	200
Unit 3	300	3000	1100	200
Unit 4	300	3000	1100	200
Unit 5	300	3000	1100	200
Unit 6	300	3000	1100	200

### 4 ABATEMENT TECHNOLOGY (%)

Associated Unit/Stack	Technology Type	Efficiency Oct-2025
Unit 1	Electrostatic Precipitators (ESP)	99.434%
Unit 2	Electrostatic Precipitators (ESP)	99.367%
Unit 3	Electrostatic Precipitators (ESP)	Off-line
Unit 4	Electrostatic Precipitators (ESP)	99.245%
Unit 5	Electrostatic Precipitators (ESP)	Off-line
Unit 6	Electrostatic Precipitators (ESP)	Off-line

Note: The ESP does not have bypass mode operation, hence plant considered 100% Utilised.

## TUTUKA POWER STATION MONTHLY REPORT FOR DECEMBER 2025

### 5 MONITOR RELIABILITY (%)

Associated Unit/Stack	PM	SO <sub>2</sub>	NO	O <sub>2</sub>
Unit 1	0.0	90.3	83.8	0.0
Unit 2	0.0	90.3	90.3	0.0
Unit 3	Off	Off	Off	Off
Unit 4	0.0	0.0	0.0	0.0
Unit 5	Off	Off	Off	Off
Unit 6	Off	Off	Off	Off

### 6 EMISSION PERFORMANCE

Table 6.1: Monthly tonnages for the month of December-2025

Associated Unit/Stack	PM (tons)	SO <sub>2</sub> (tons)	NO <sub>x</sub> (tons)
Unit 1	52.1	858	463
Unit 2	92.0	883	454
Unit 3	Off	Off	Off
Unit 4	251.5	3 756	1 688
Unit 5	Off	Off	Off
Unit 6	Off	Off	Off
<b>SUM</b>	<b>395.56</b>	<b>5 497</b>	<b>2 605</b>

Table 6.2: Operating days in compliance to PM AEL Limit - December 2025

Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Month Limit Value	Month Avg (mg/Nm <sup>3</sup> )
Unit 1	8	0	0	0	0	200	129.7
Unit 2	14	0	0	0	0	200	226.2
Unit 3	Off	Off	Off	Off	Off	200	Off
Unit 4	29	0	0	0	0	200	136.8
Unit 5	Off	Off	Off	Off	Off	200	Off
Unit 6	Off	Off	Off	Off	Off	200	Off
<b>SUM</b>	<b>51</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		

Note: The station exceeded the PM monthly average limit of 200 mg/Nm<sup>3</sup> at Unit 2 due to the three-monthly average data used, which is not the true reflection of how the plant operates and will be restated once the latest correlation curves are implemented and the station will re-report.

## TUTUKA POWER STATION MONTHLY REPORT FOR DECEMBER 2025

Table 6.3: Operating days in compliance to SO<sub>2</sub> AEL Limit - November 2025

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average SO <sub>2</sub> (mg/Nm <sup>3</sup> )
Unit 1	9	0	0	0	0	1 829.2
Unit 2	15	0	0	0	0	2 047.8
Unit 3	Off	Off	Off	Off	Off	Off
Unit 4	30	0	0	0	0	1 908.7
Unit 5	Off	Off	Off	Off	Off	Off
Unit 6	Off	Off	Off	Off	Off	Off
<b>SUM</b>	<b>54</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

Table 6.4: Operating days in compliance to NO<sub>x</sub> AEL Limit - November 2025

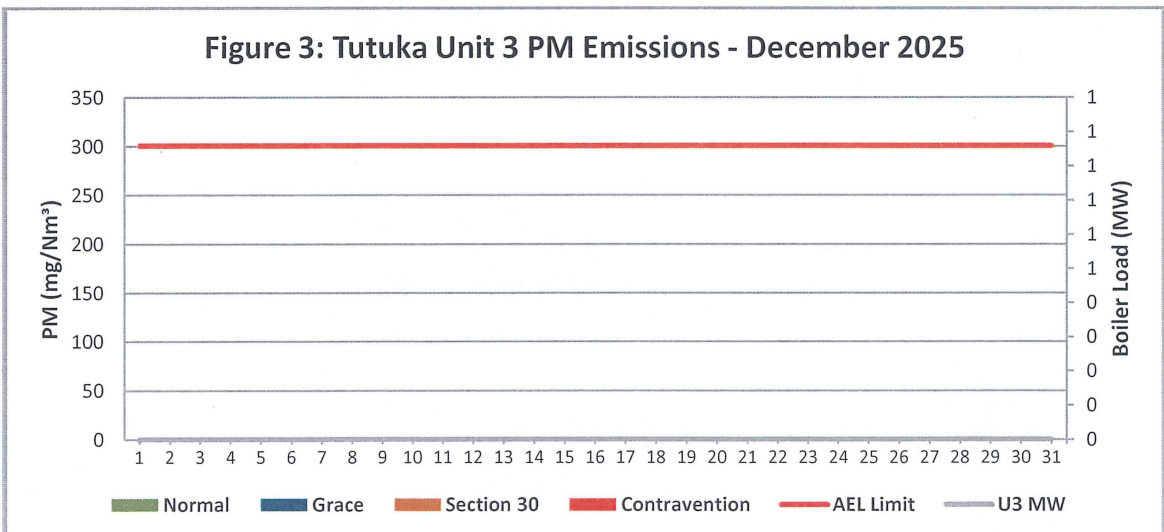
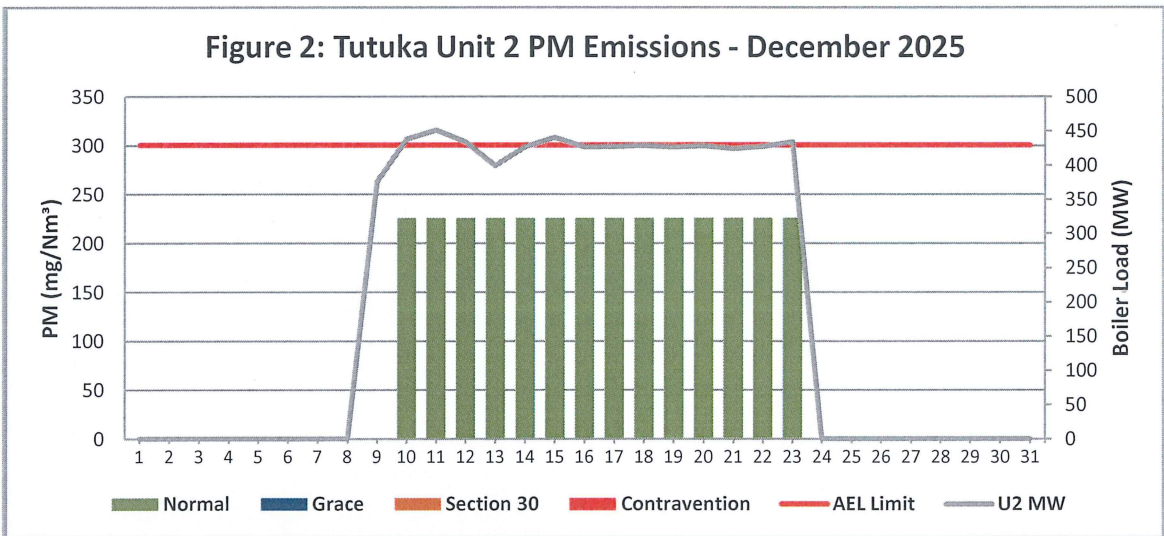
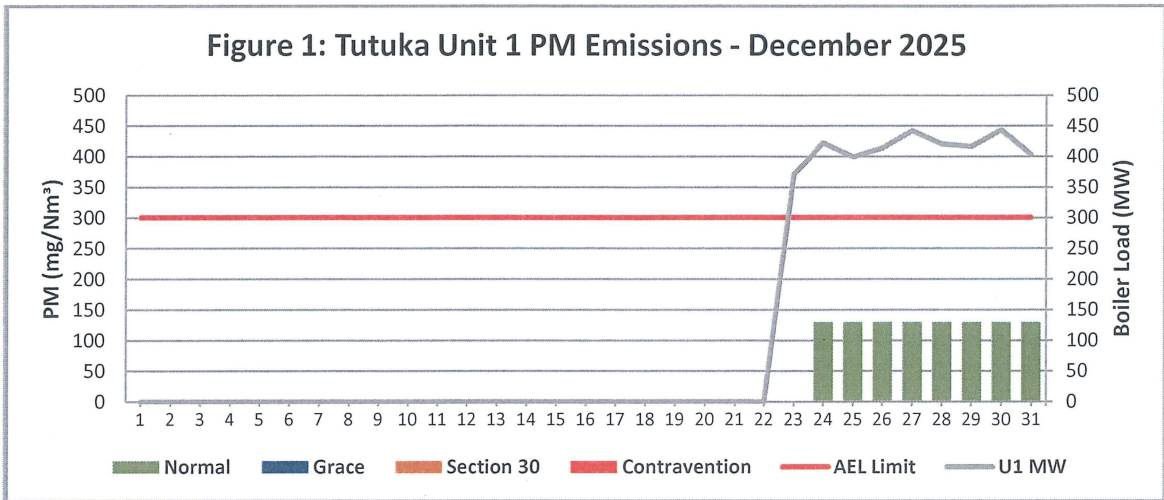
Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average NO <sub>x</sub> (mg/Nm <sup>3</sup> )
Unit 1	9	0	0	0	0	983.0
Unit 2	14	1	0	0	1	1 046.4
Unit 3	Off	Off	Off	Off	Off	Off
Unit 4	30	0	0	0	0	857.7
Unit 5	Off	Off	Off	Off	Off	Off
Unit 6	Off	Off	Off	Off	Off	Off
<b>SUM</b>	<b>53</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	

Note: NO<sub>x</sub> emission is measured as NO in PPM. Final NO<sub>x</sub> value is expressed as total NO<sub>2</sub>

Table 6.5: Legend Description

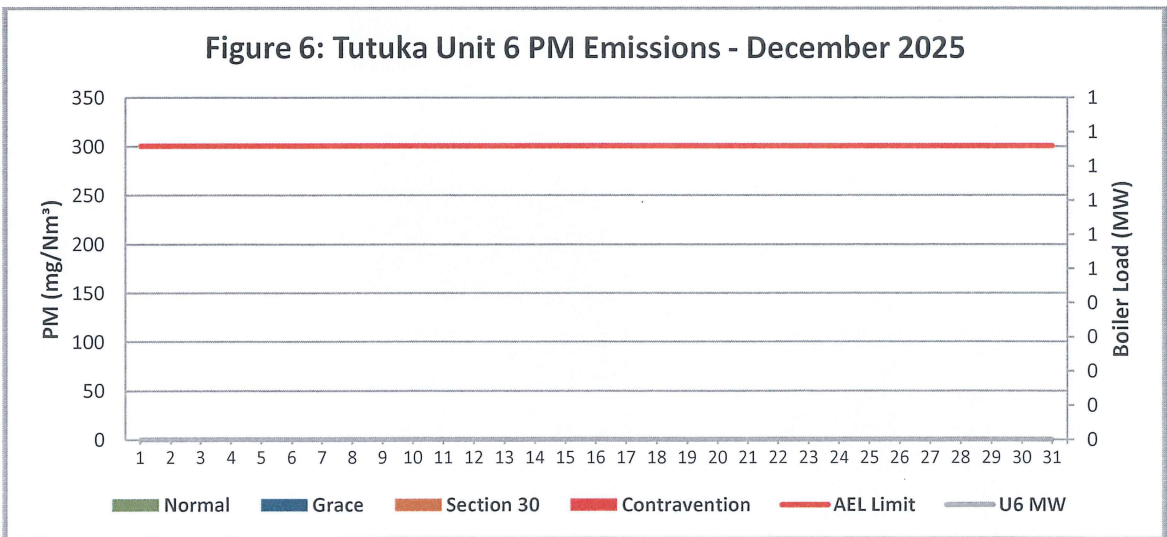
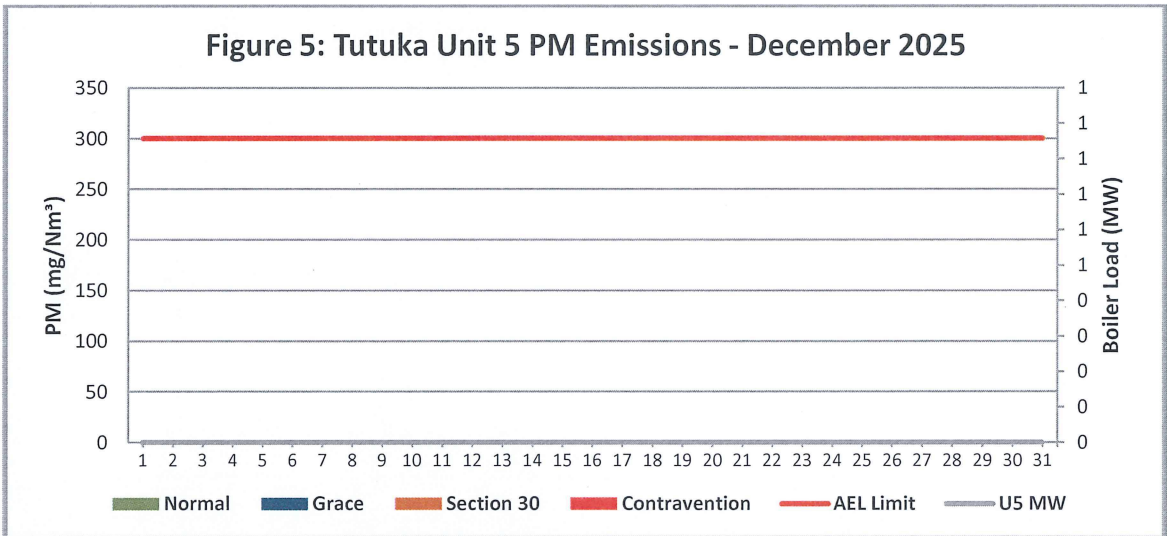
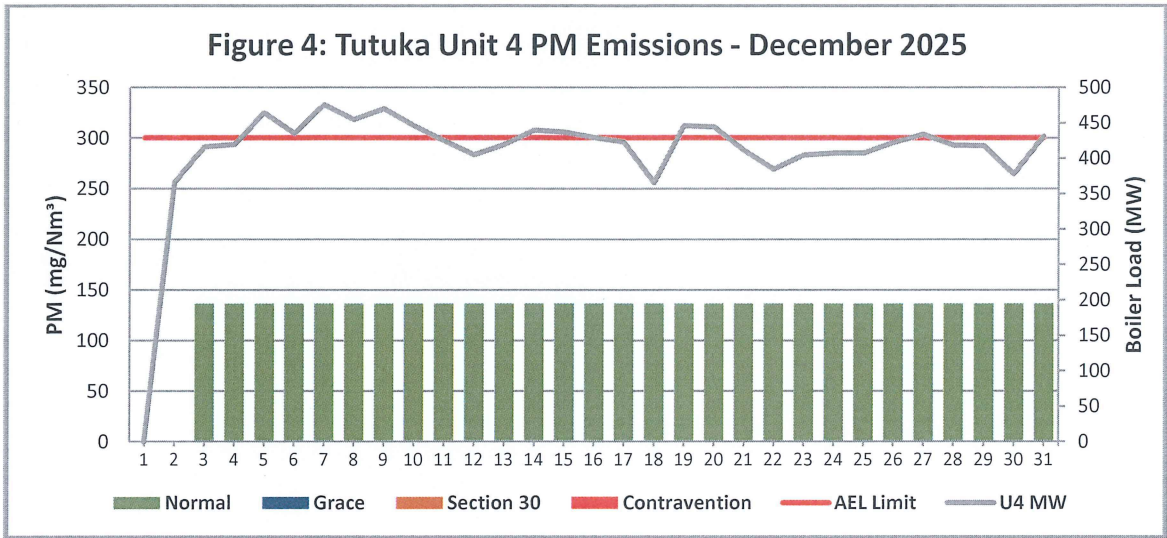
Condition	Colour	Description
Normal		Emissions below Emission Limit Value (ELV)
Grace		Emissions above the ELV during grace period
Section 30		Emissions above ELV during a NEMA S30 incident
Contravention		Emissions above ELV but outside grace or S30 incident conditions

TUTUKA POWER STATION MONTHLY REPORT FOR DECEMBER 2025



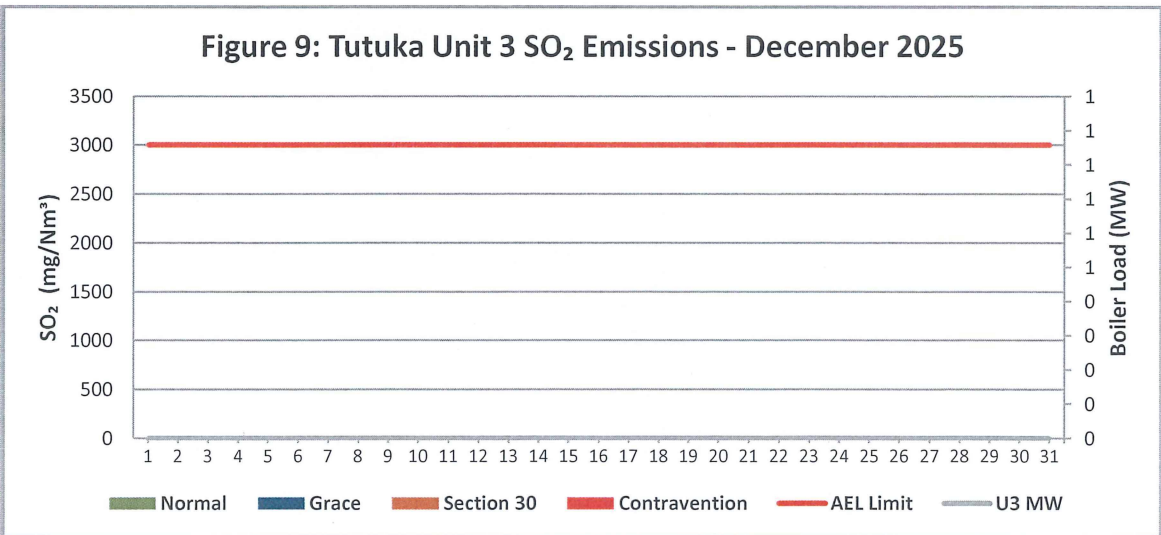
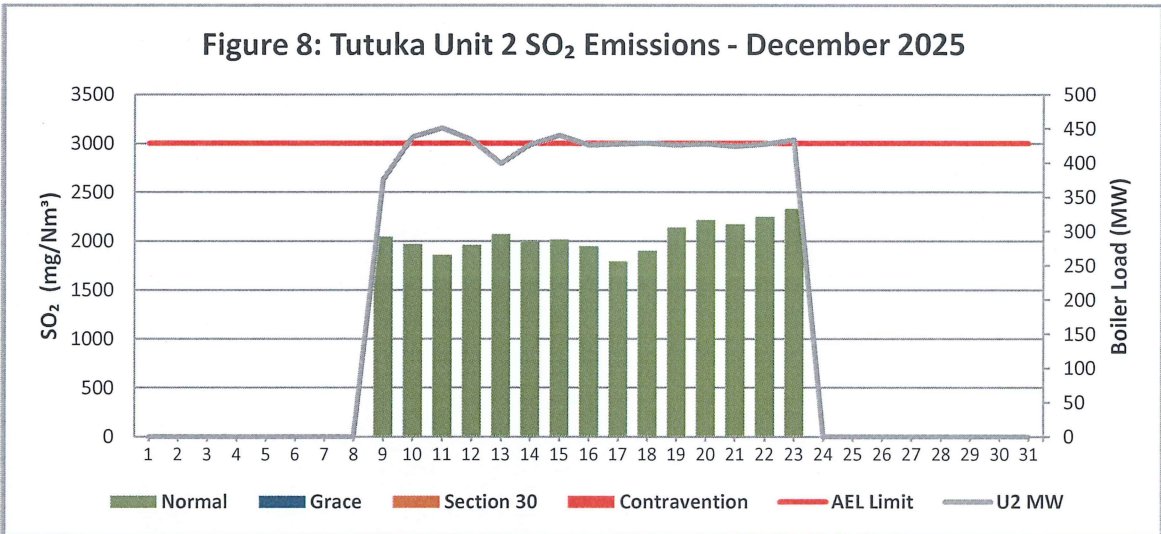
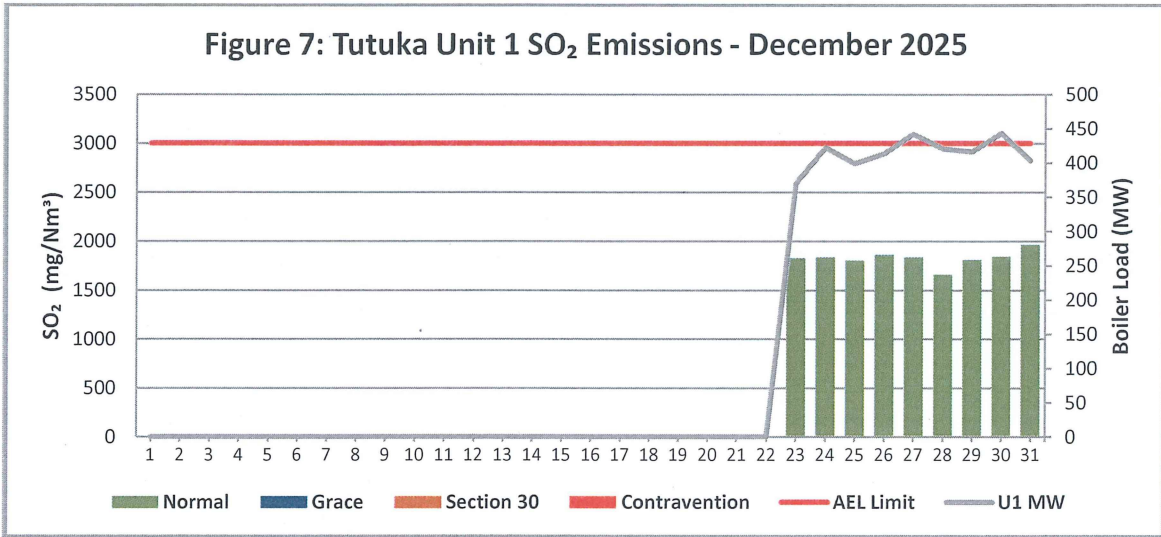
BA

TUTUKA POWER STATION MONTHLY REPORT FOR DECEMBER 2025

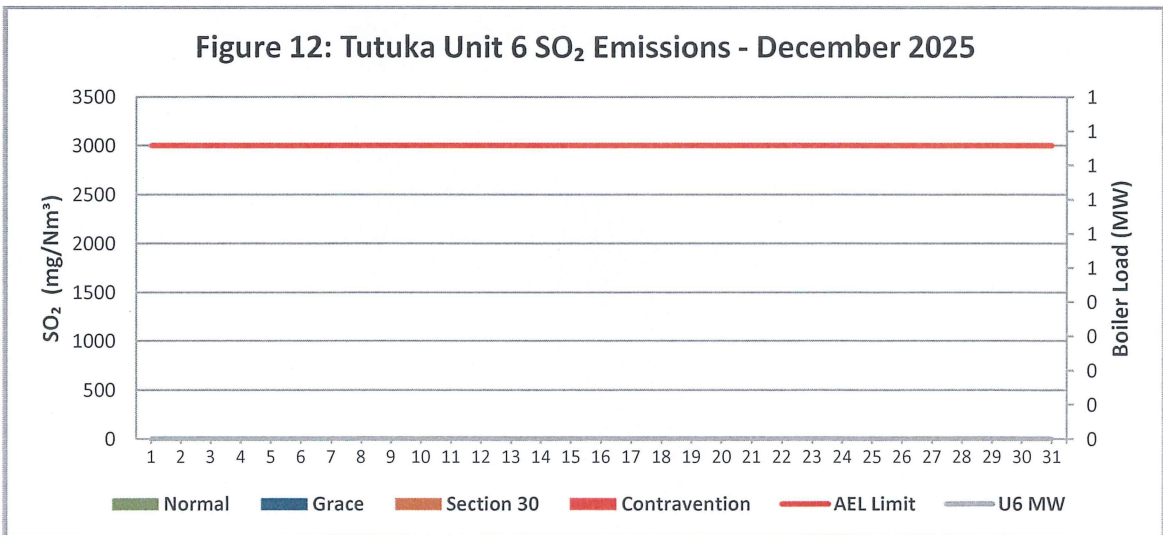
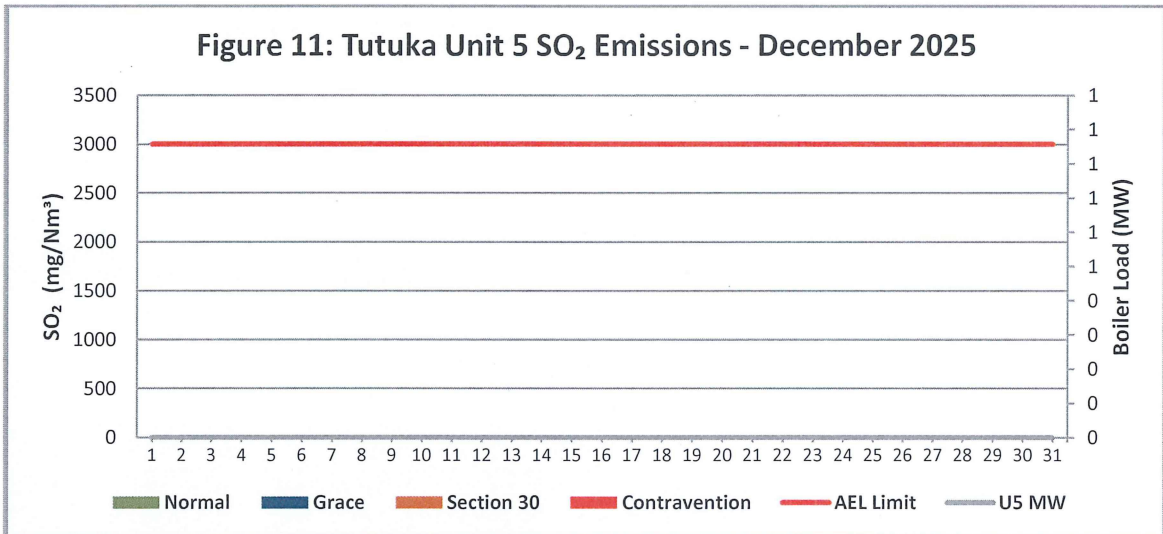
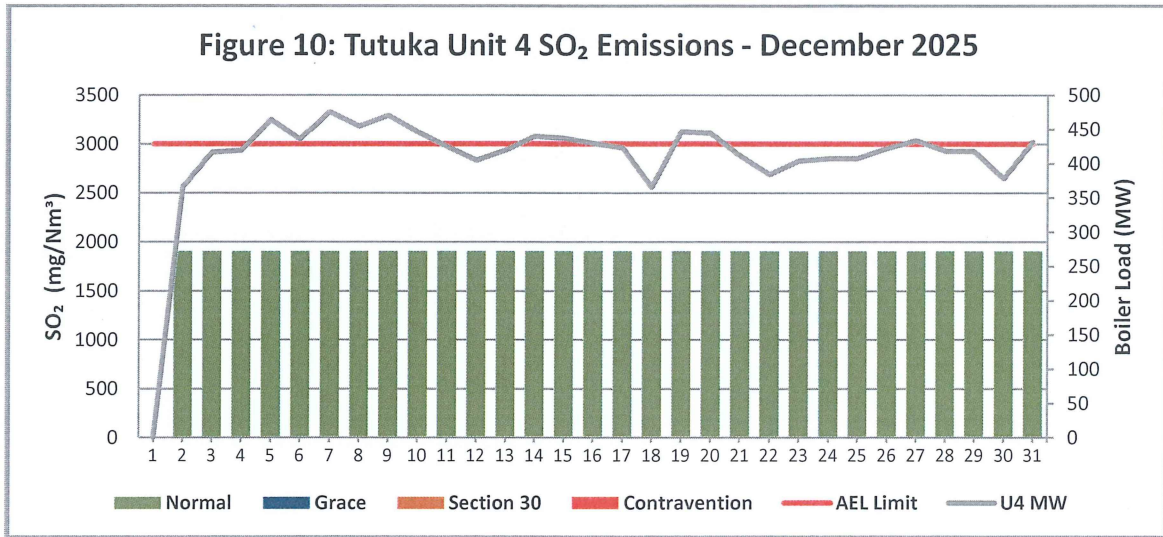


B

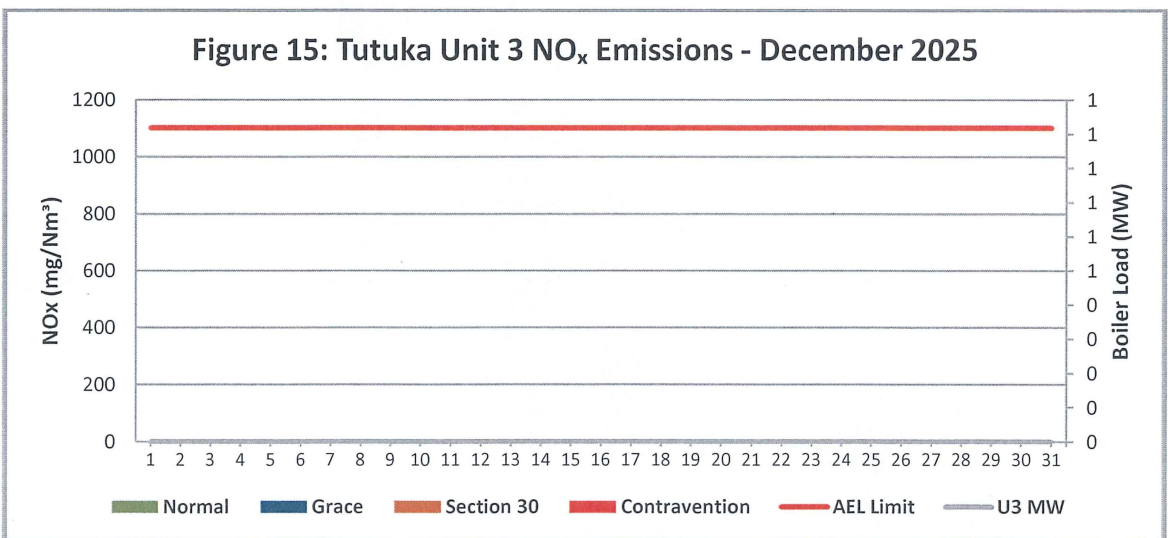
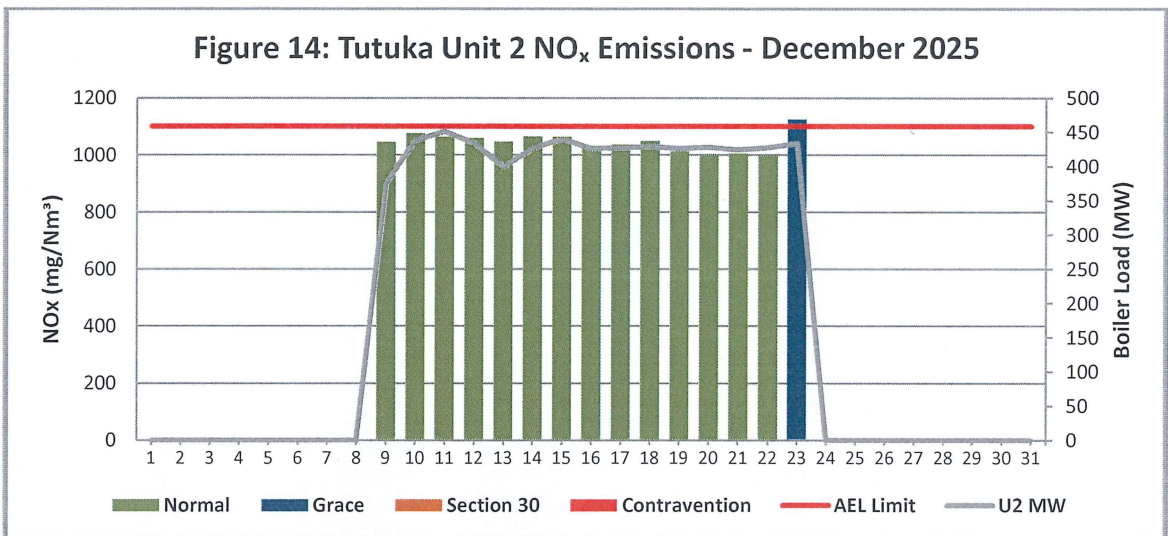
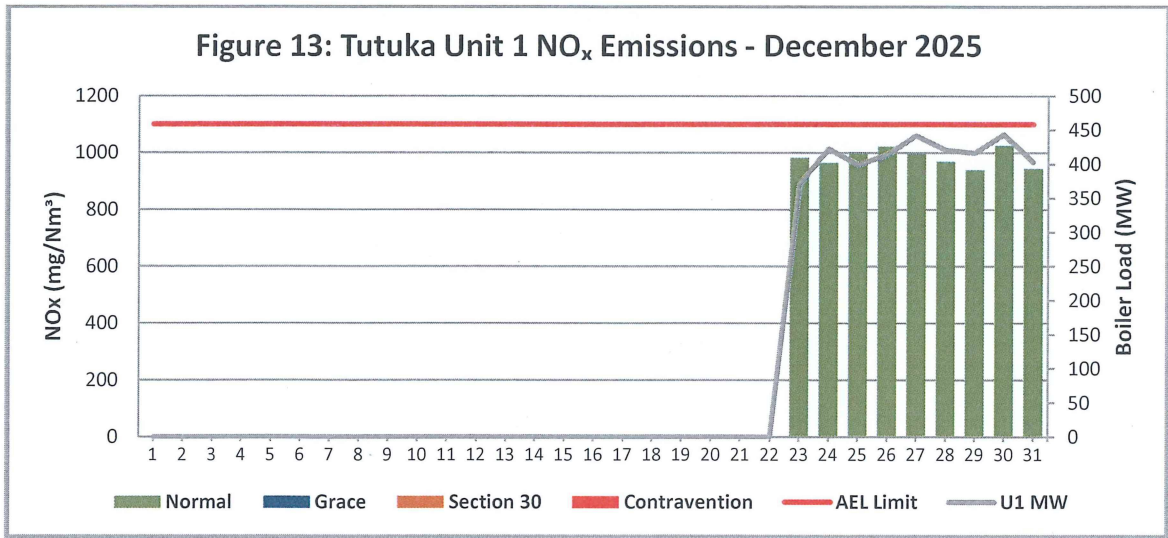
TUTUKA POWER STATION MONTHLY REPORT FOR DECEMBER 2025



TUTUKA POWER STATION MONTHLY REPORT FOR DECEMBER 2025



TUTUKA POWER STATION MONTHLY REPORT FOR DECEMBER 2025



TUTUKA POWER STATION MONTHLY REPORT FOR DECEMBER 2025

Figure 16: Tutuka Unit 4 NO<sub>x</sub> Emissions - December 2025

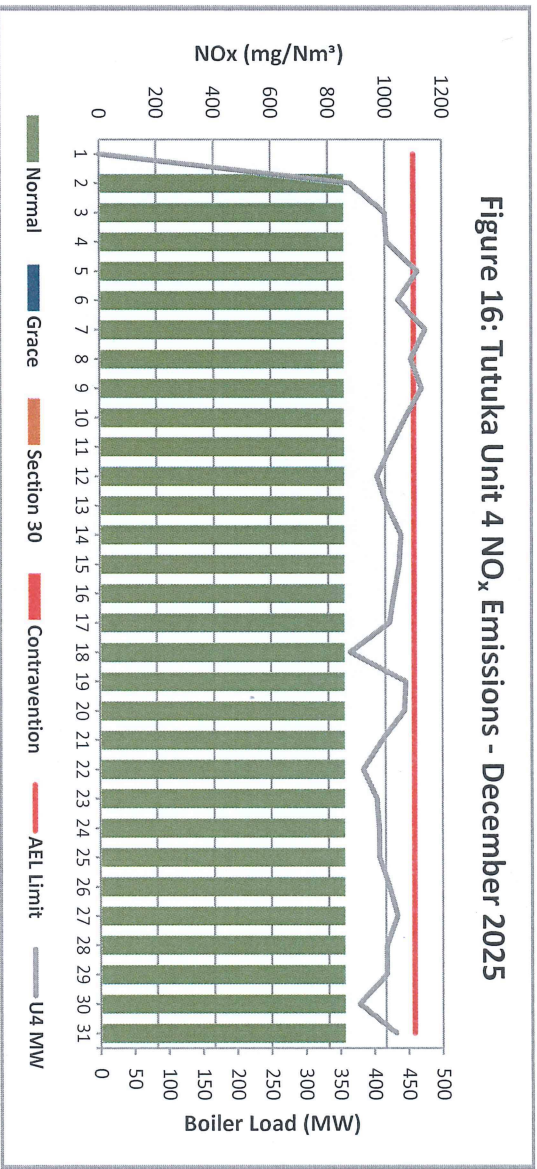


Figure 17: Tutuka Unit 5 NO<sub>x</sub> Emissions - December 2025

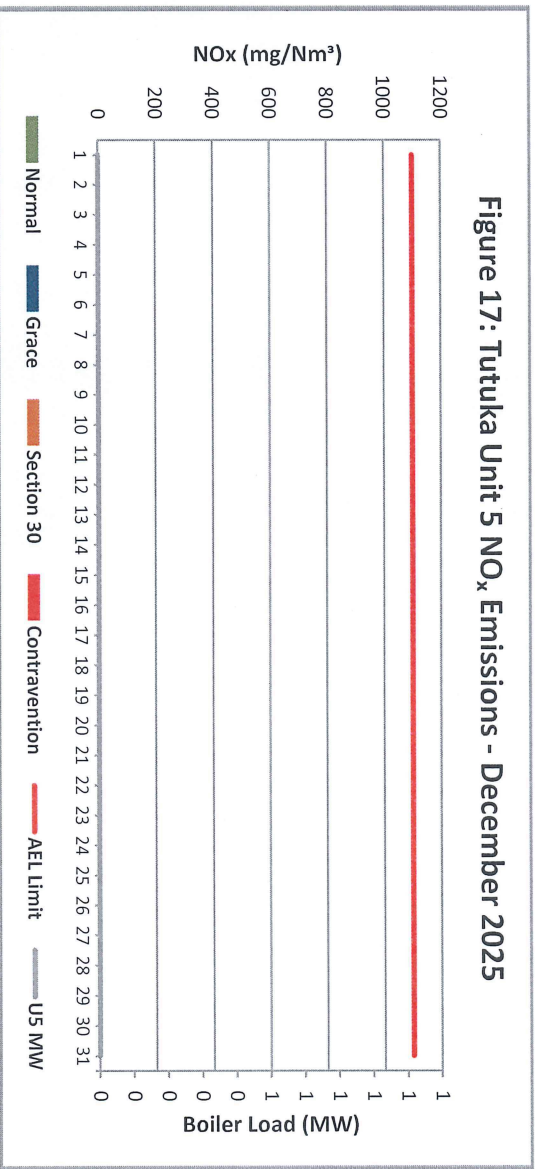
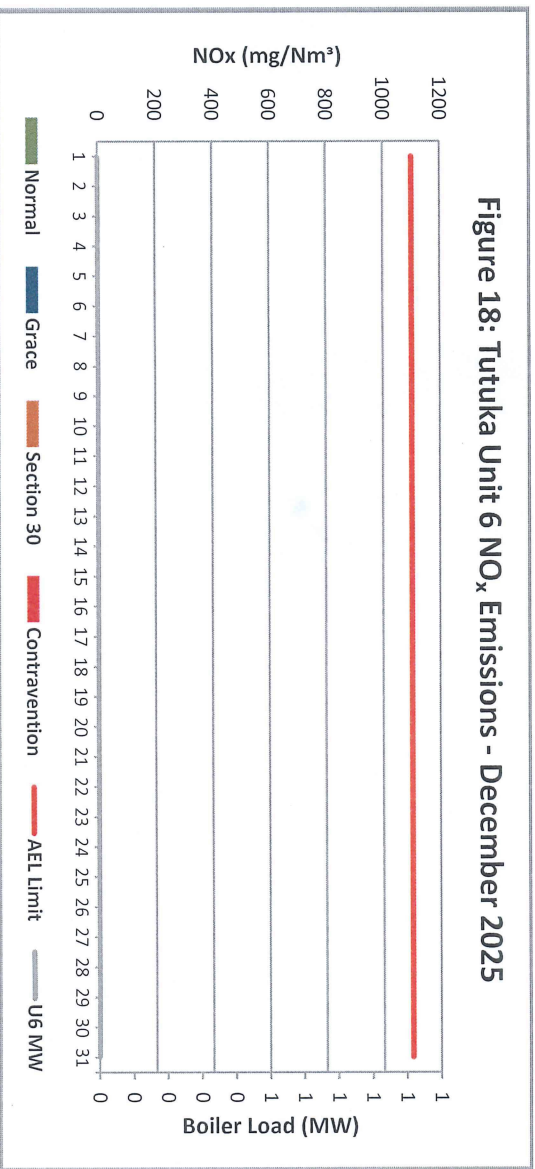


Figure 18: Tutuka Unit 6 NO<sub>x</sub> Emissions - December 2025



*SA*

TUTUKA POWER STATION MONTHLY REPORT FOR DECEMBER 2025

7. COMPLAINTS REGISTER

Source Code/Name	Root Cause Analysis	Calculation of Impacts/emissions associated with the incident	Dispersion modelling of pollutants where applicable	Measures implemented to prevent recurrence	Date by which measure will be implemented
No fuel oil leaks were detected for the month of December 2025 No complaints were received for the month of December 2025.					

Yours Sincerely

Compiled by:



Mosa Chipa

**SENIOR ENVIRONMENTAL ADVISOR**

Verified by:



Mankhwela Ramaboea

**ENVIRONMENTAL MANAGER**

Supported by:



Mmakwena Ramatshela

**BOILER ENGINEER**

Approved by:



Bruce Moyo

**GENERAL MANAGER**