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Date: 19 December 2025

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Dear Ms Mthembu

### **TUTUKA POWER STATION MONTHLY REPORT FOR NOVEMBER 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 November 2025.

The report presents monthly trends for each monitored pollutant. The Station had 4-units onload for the month of November 2025, Units 1, 2, 4 and 5. Unit 1 was available for 27 days, Unit 2 was available for 27 days, Unit 4 was available for 20 days, Unit 5 was available for 14 days and Unit 3 & Unit 6 were offload. There were no PM exceedances in the month of November 2025.

New Monitors, for both PM and Gaseous, were installed on Unit 1 from the 21<sup>st</sup> of October 2025 and on Unit 2 from the 01<sup>st</sup> of November 2025.

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' (October, September and August) average values were used on both the Units. Unit 2 exceeded the AEL PM limit monthly average of 200 mg/Nm<sup>3</sup> as the three months average data was used, since the station was in the process of monitor installations.

Once the correlation curve and the QAL2 factors are validated, 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 NOVEMBER 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	452 389
	Fuel Oil	Tons	8 000	3162.340

Production Rates	Product / By-Product Name	Units	Max. Production Capacity Permitted	Indicative Production Rate Oct-2025
	Energy	GWh	2 719	844.515
	Ash	Tons	500 000	105 225.788
	RE Ash	kg/MWh	not specified	0.813

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	22.030
Sulphur Content	%	0.6 TO 2.6	1.000
Ash Content	%	21 TO 33	23.260

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

Associated Unit/Stack	PM Daily	SO <sub>2</sub>	NOx	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)	99.420%
Unit 2	Electrostatic Precipitators (ESP)	99.441%
Unit 3	Electrostatic Precipitators (ESP)	Off-line
Unit 4	Electrostatic Precipitators (ESP)	99.160%
Unit 5	Electrostatic Precipitators (ESP)	98.752%
Unit 6	Electrostatic Precipitators (ESP)	Off-line

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

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### 5 MONITOR RELIABILITY (%)

Associated Unit/Stack	PM	SO <sub>2</sub>	NO	O <sub>2</sub>
Unit 1	100.0	98.8	100.0	0.0
Unit 2	100.0	98.8	98.8	95.5
Unit 3	<i>Exempt</i>	0.0	0.0	0.0
Unit 4	100.0	99.0	99.2	99.2
Unit 5	100.0	99.4	99.4	99.4
Unit 6	<i>Off</i>	<i>Off</i>	<i>Off</i>	<i>Off</i>

### 6 EMISSION PERFORMANCE

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

Associated Unit/Stack	PM (tons)	SO <sub>2</sub> (tons)	NO <sub>x</sub> (tons)
Unit 1	183.5	2 797	1 382
Unit 2	153.3	1 286	697
Unit 3	<i>Exempt</i>	0	0
Unit 4	194.5	2 845	1 364
Unit 5	155.6	1 831	1 053
Unit 6	<i>Off</i>	<i>Off</i>	<i>Off</i>
<b>SUM</b>	686.93	8 760	4 496

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

Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Month Limit Value	Month Avg (mg/Nm <sup>3</sup> )
Unit 1	27	0	0	0	0	200	129.7
Unit 2	26	0	0	0	0	200	226.2
Unit 3	<i>Exempt</i>	<i>Exempt</i>	<i>Exempt</i>	<i>Exempt</i>	<i>Exempt</i>	200	<i>Exempt</i>
Unit 4	20	0	0	0	0	200	136.8
Unit 5	14	0	0	0	0	200	152.0
Unit 6	<i>Off</i>	<i>Off</i>	<i>Off</i>	<i>Off</i>	<i>Off</i>	200	<i>Off</i>
<b>SUM</b>	87	0	0	0	0		

NB: The previous three months' data for (October, September and August) average values were used on both Unit 1 and 2. Unit 2 exceeded the AEL PM limit monthly average of 200 mg/Nm<sup>3</sup> as the three months average data was used, since the station was in the process of monitor installations. Once the correlation curve and the QAL2 factors are validated, these emissions will be re-instated by the station and re-reported.

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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	27	0	0	0	0	1 890.3
Unit 2	27	0	0	0	0	1 732.2
Unit 3	0	0	0	0	0	Off
Unit 4	20	0	0	0	0	2 021.0
Unit 5	14	0	0	0	0	1 798.6
Unit 6	Off	Off	Off	Off	Off	Off
<b>SUM</b>	<b>88</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

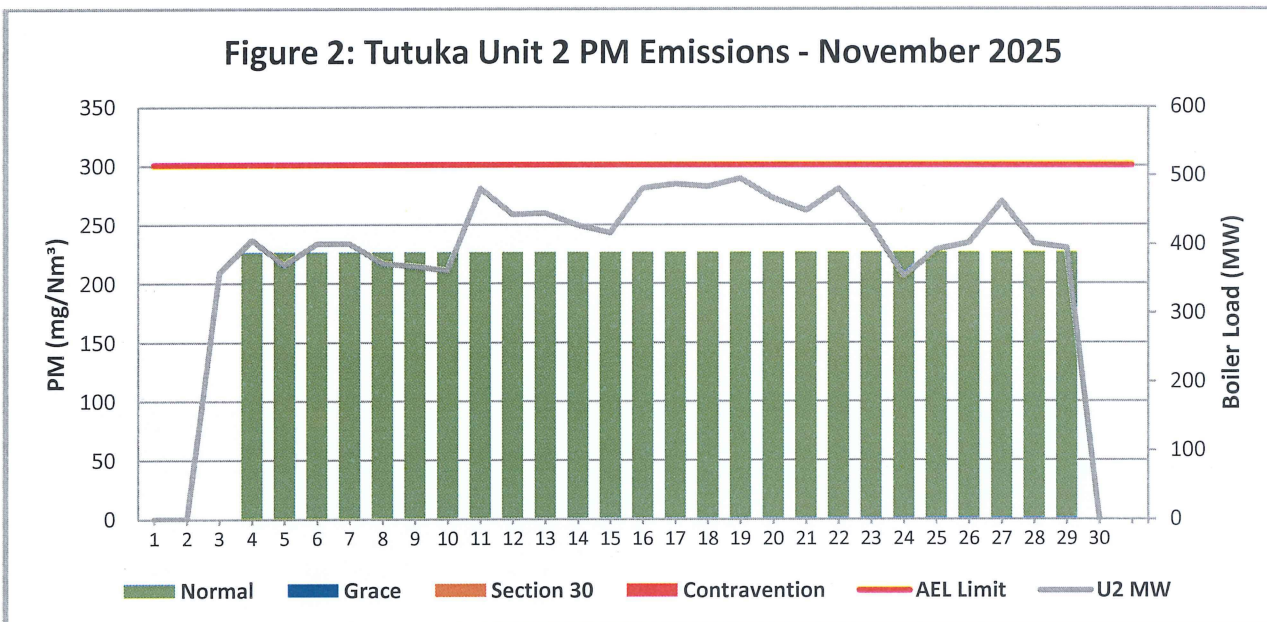
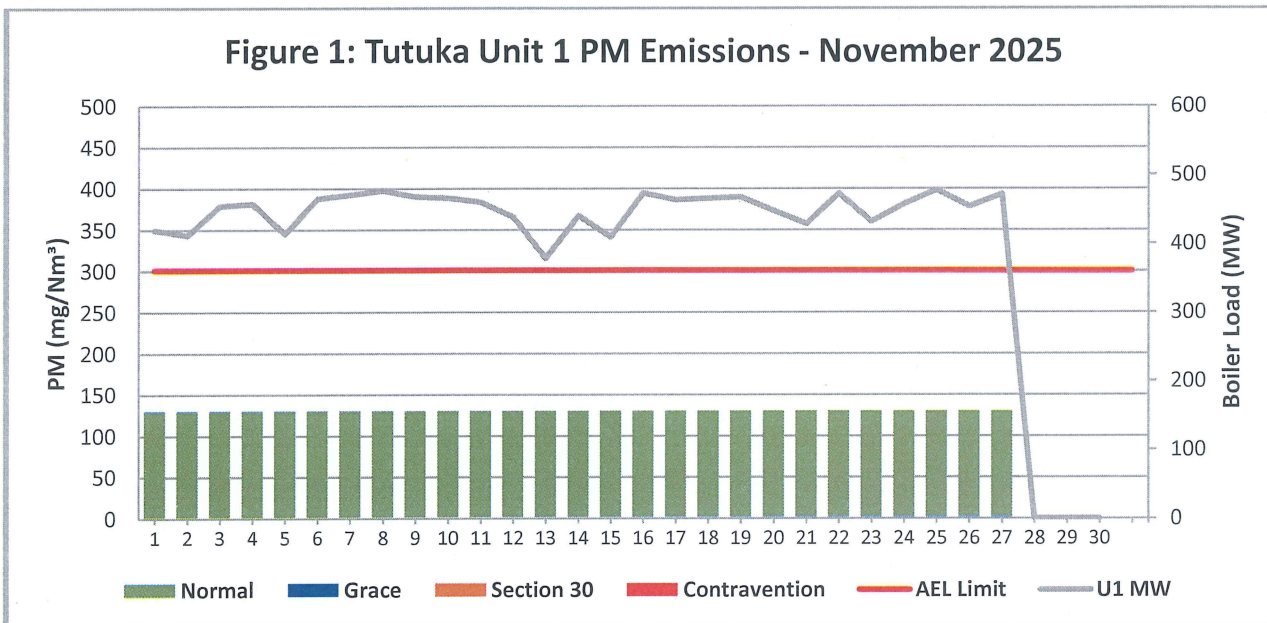
Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average NO <sub>x</sub> (mg/Nm <sup>3</sup> )
Unit 1	27	0	0	0	0	931.1
Unit 2	27	0	0	0	0	930.7
Unit 3	0	0	0	0	0	Off
Unit 4	20	0	0	0	0	967.9
Unit 5	14	0	0	0	0	1 030.7
Unit 6	Off	Off	Off	Off	Off	Off
<b>SUM</b>	<b>88</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</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>

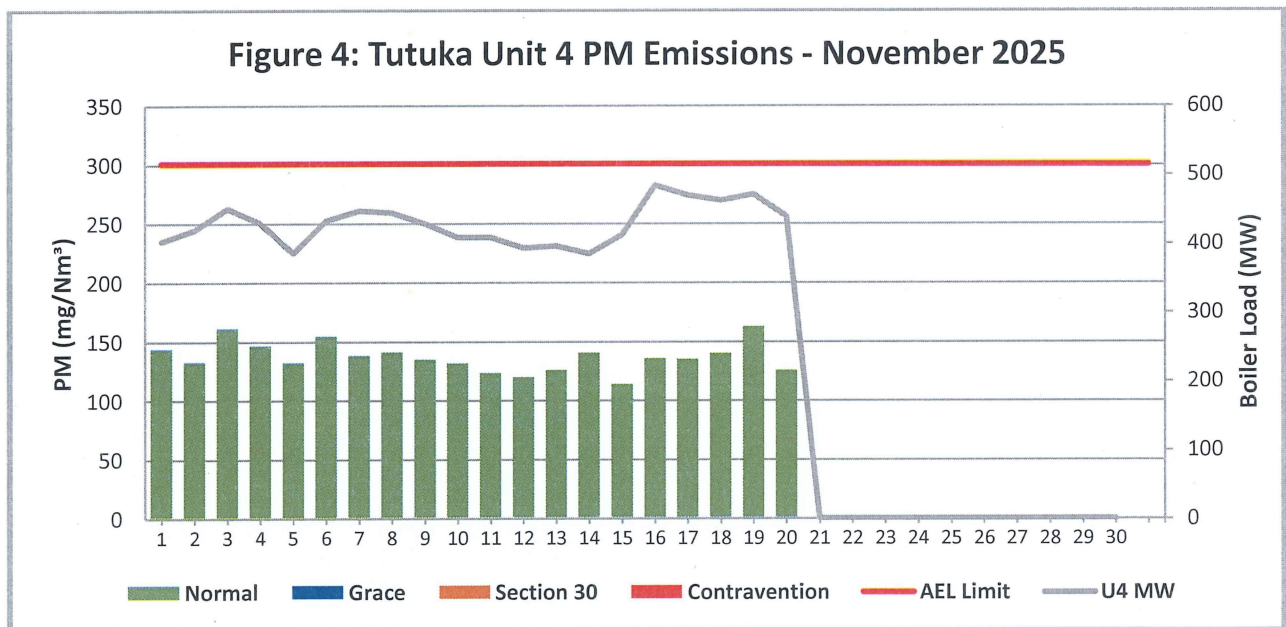
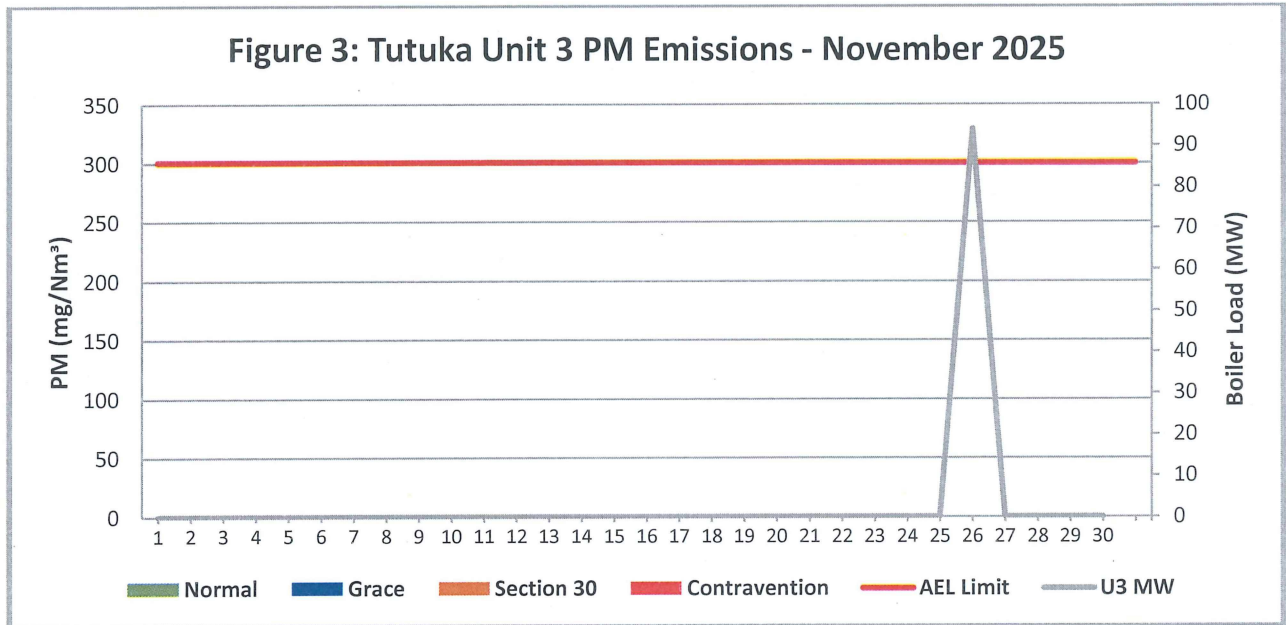
Table 6.5: Legend Description

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

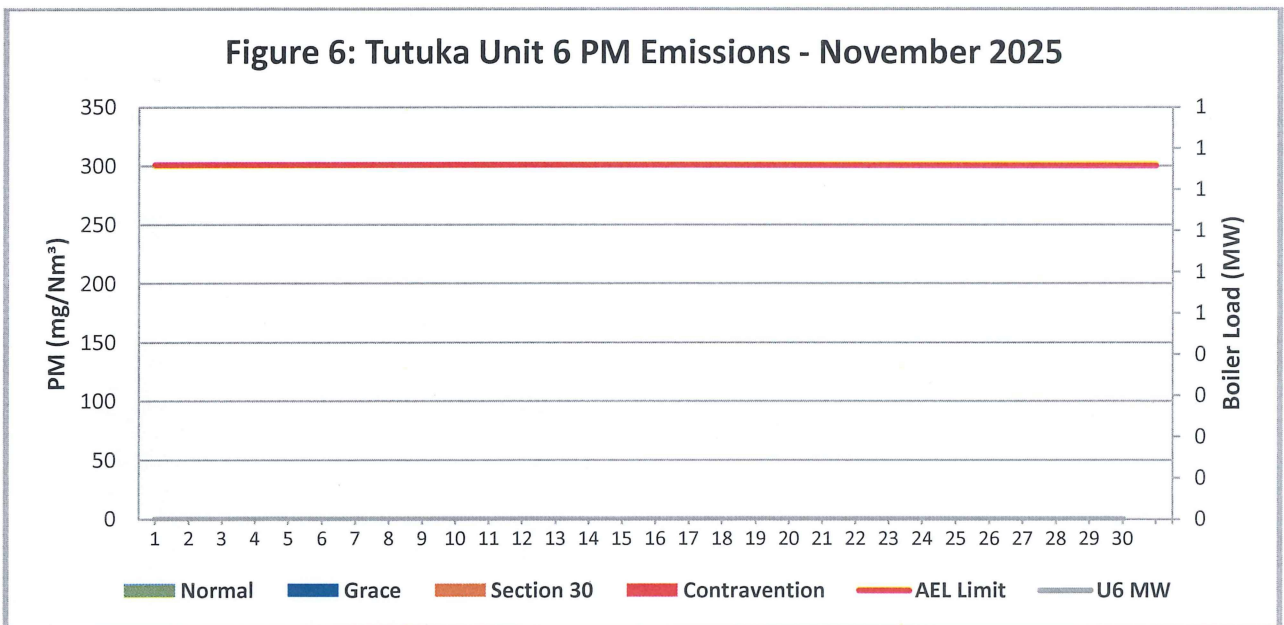
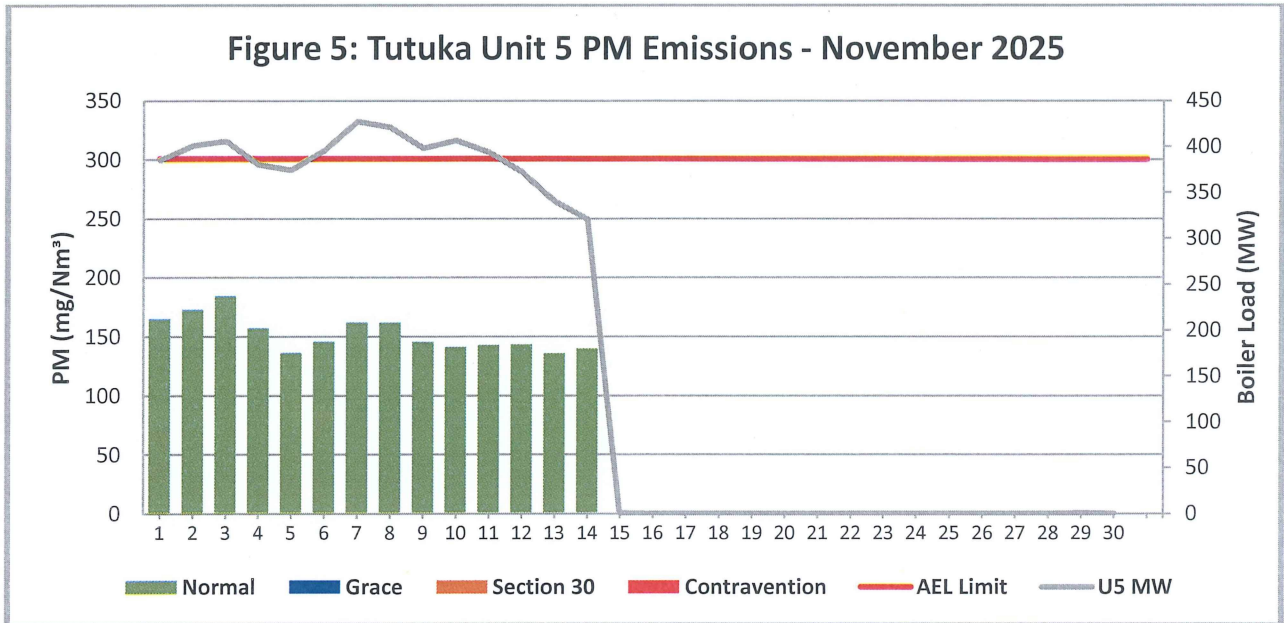
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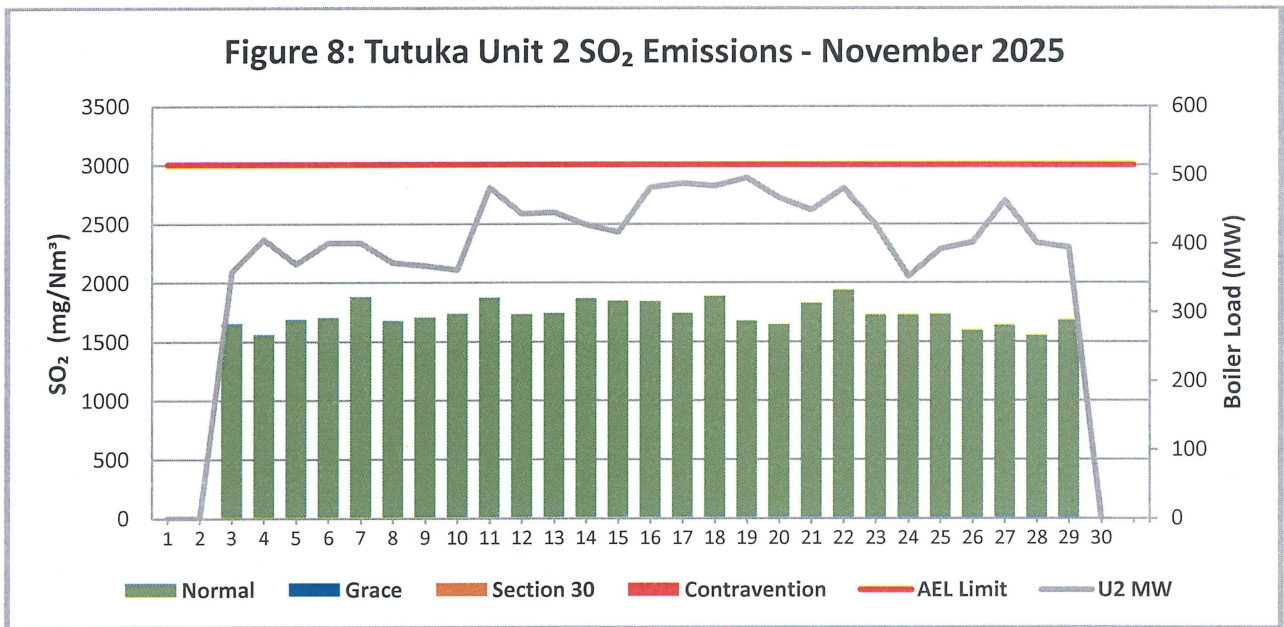
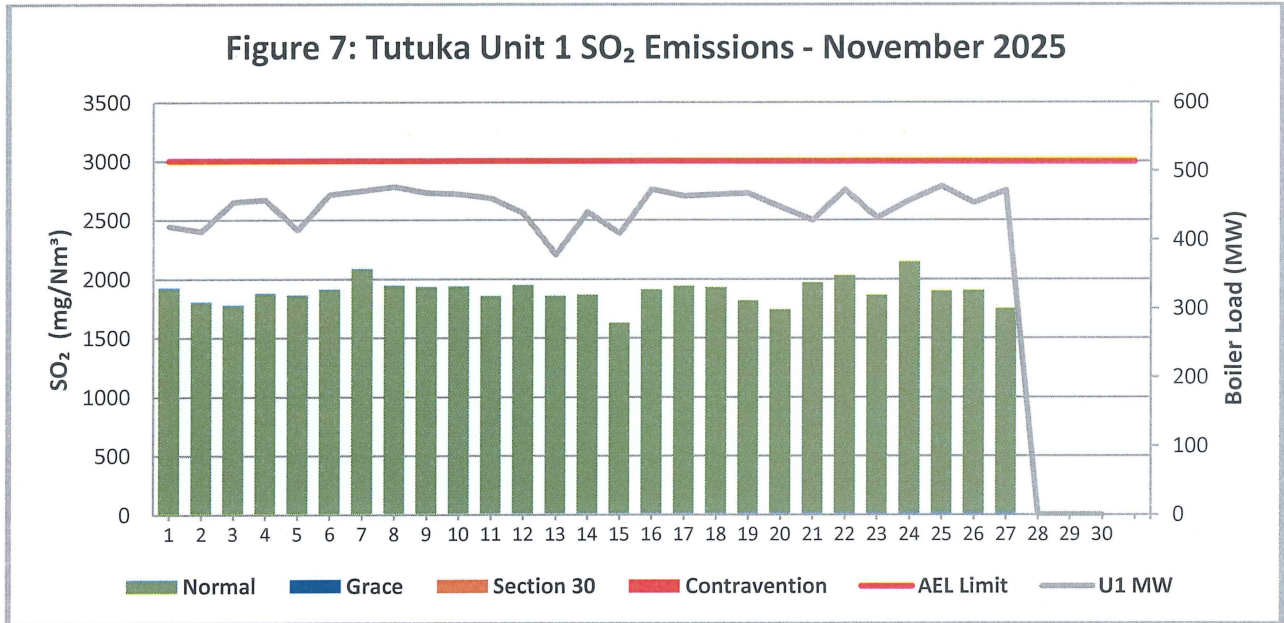
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Figure 9: Tutuka Unit 3 SO<sub>2</sub> Emissions - November 2025

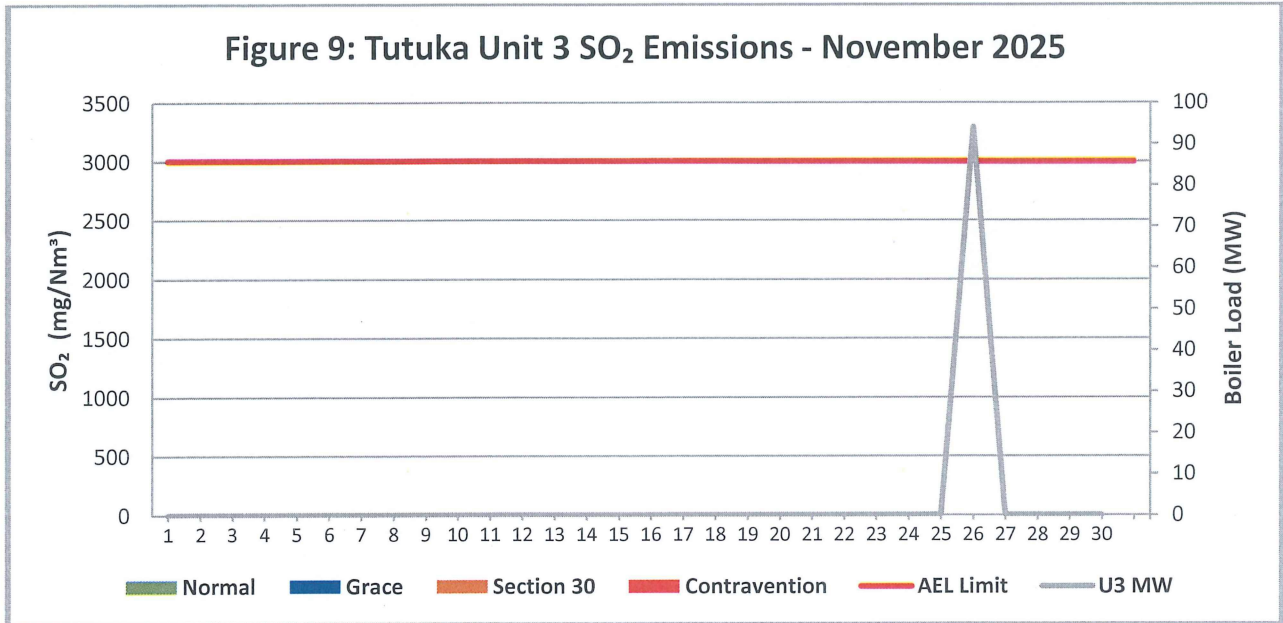
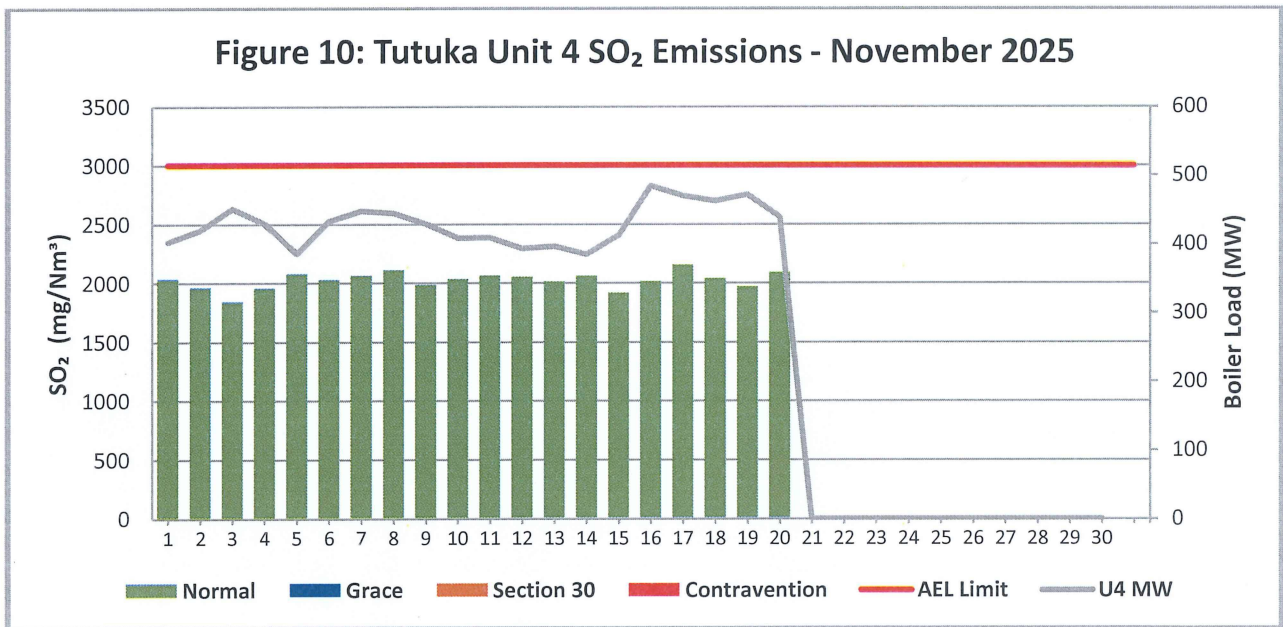
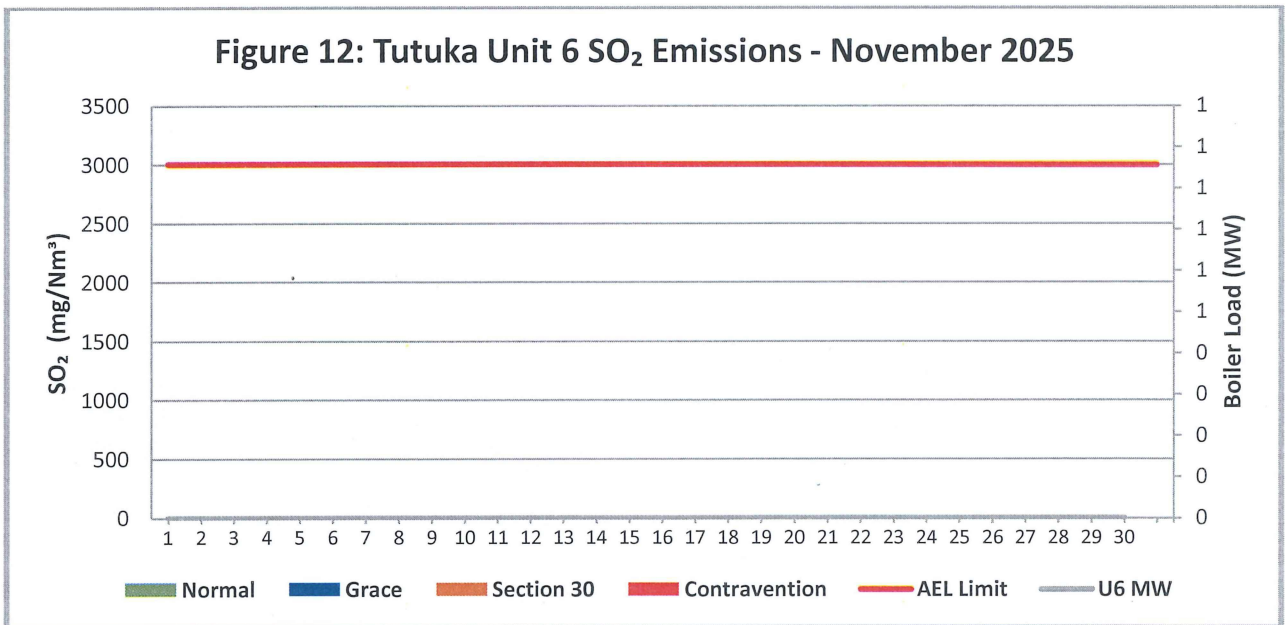
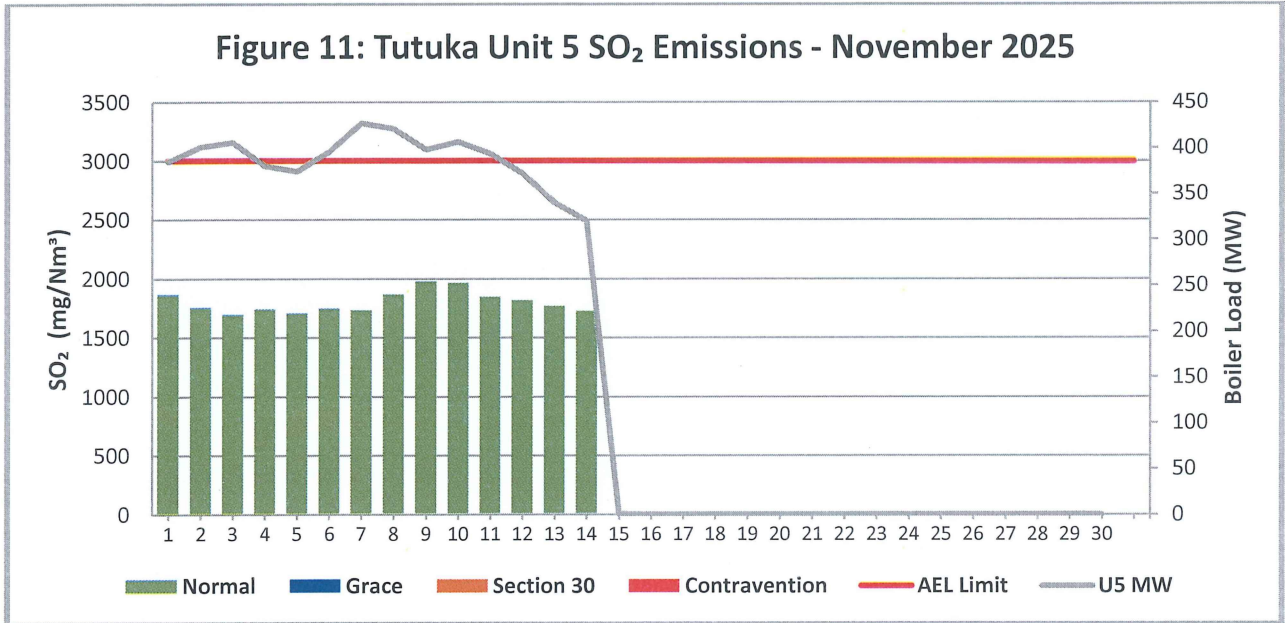


Figure 10: Tutuka Unit 4 SO<sub>2</sub> Emissions - November 2025



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Figure 13: Tutuka Unit 1 NO<sub>x</sub> Emissions - November 2025

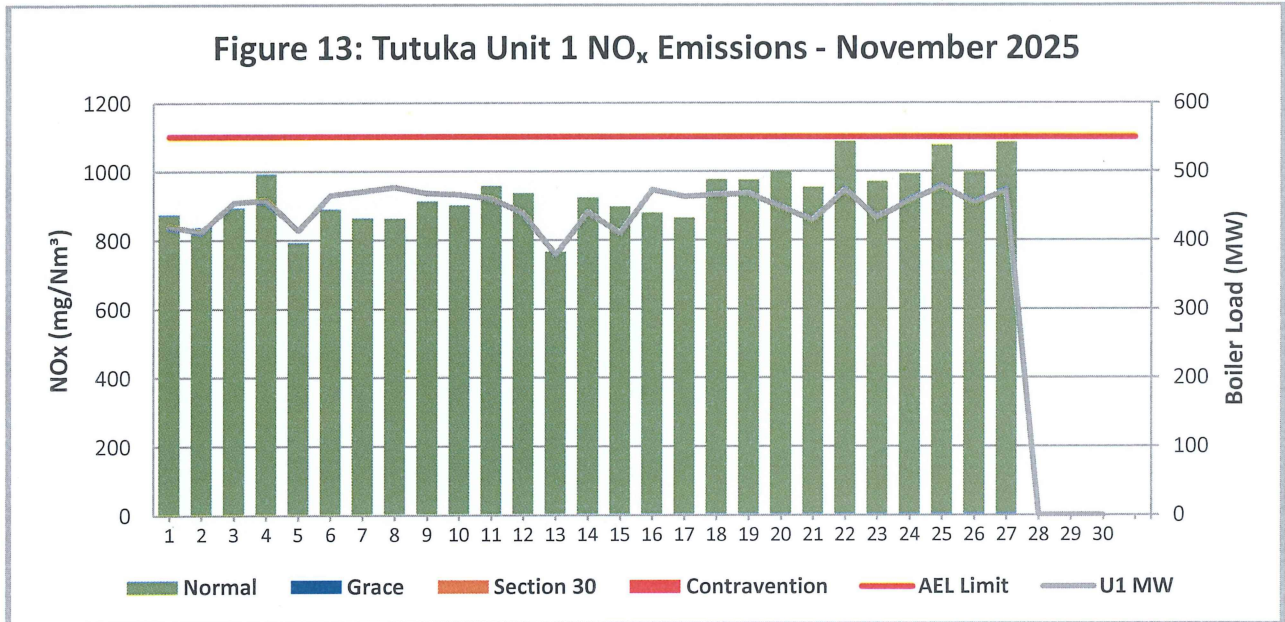
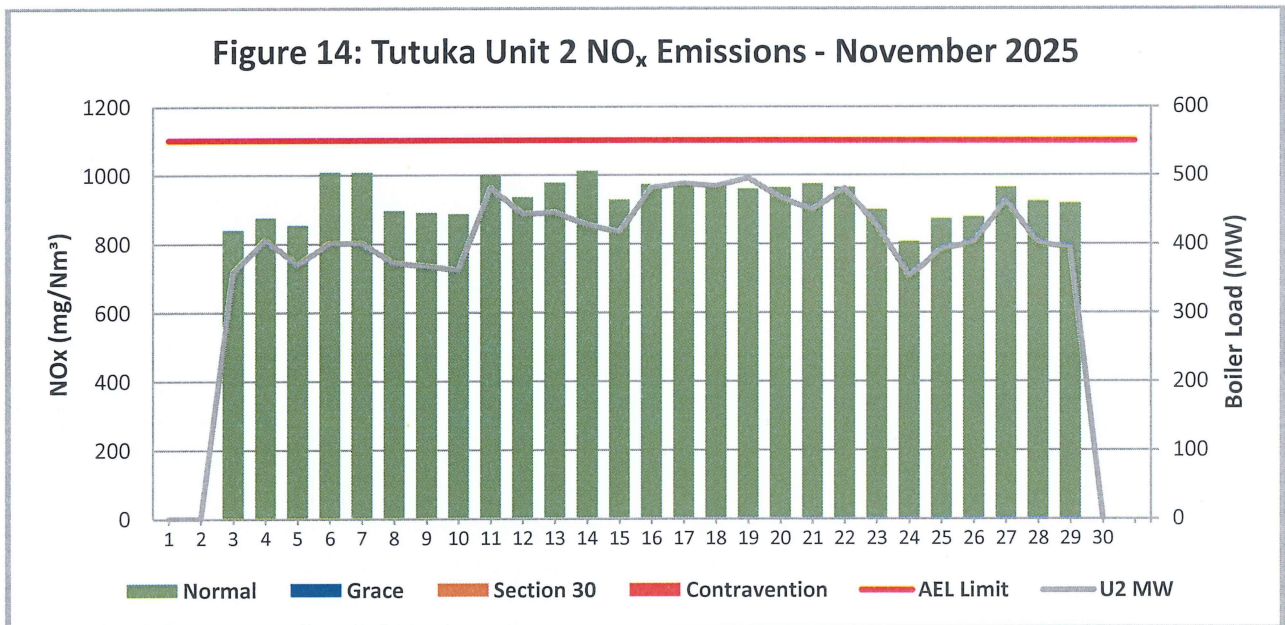
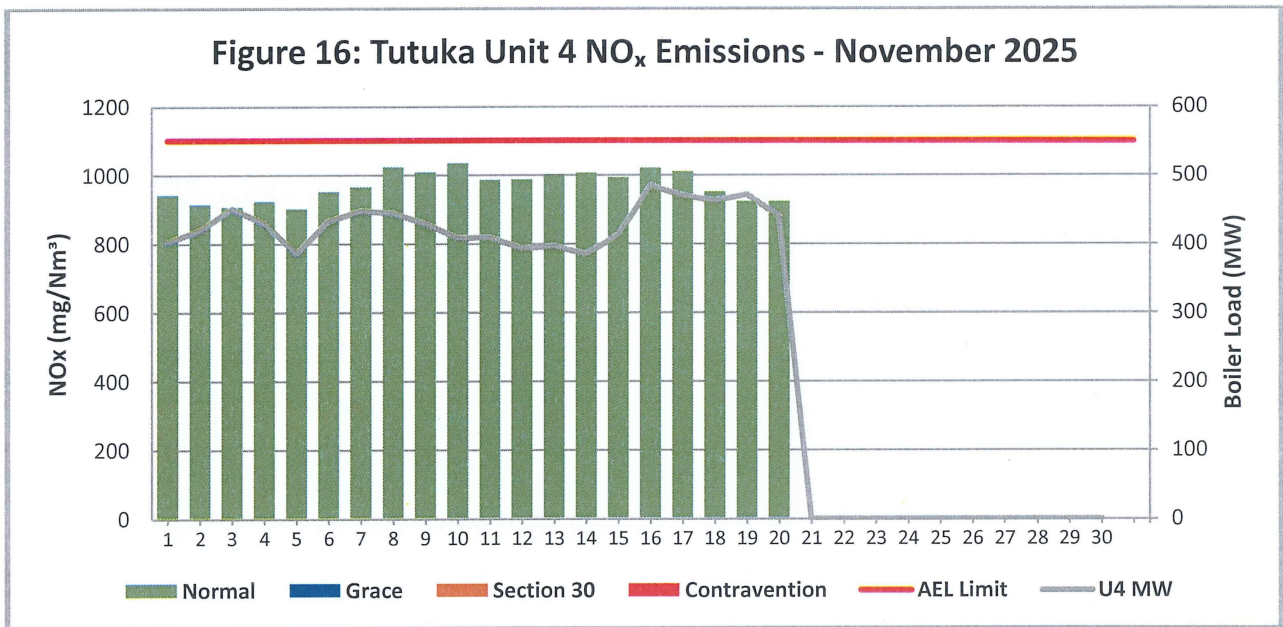
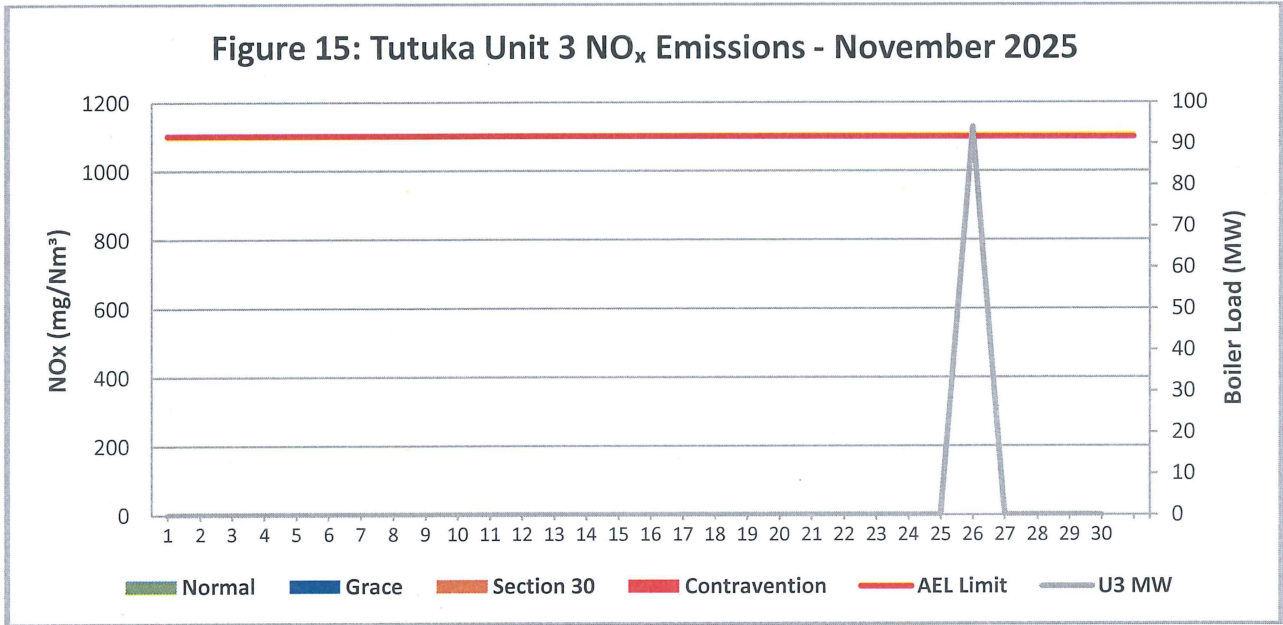


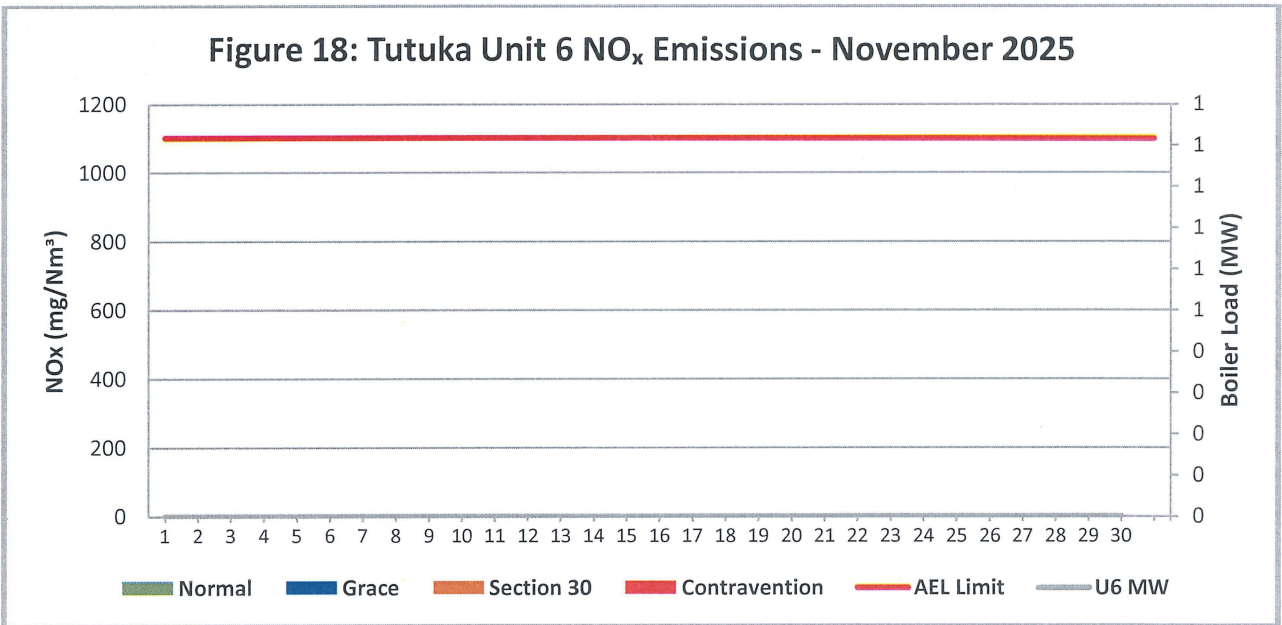
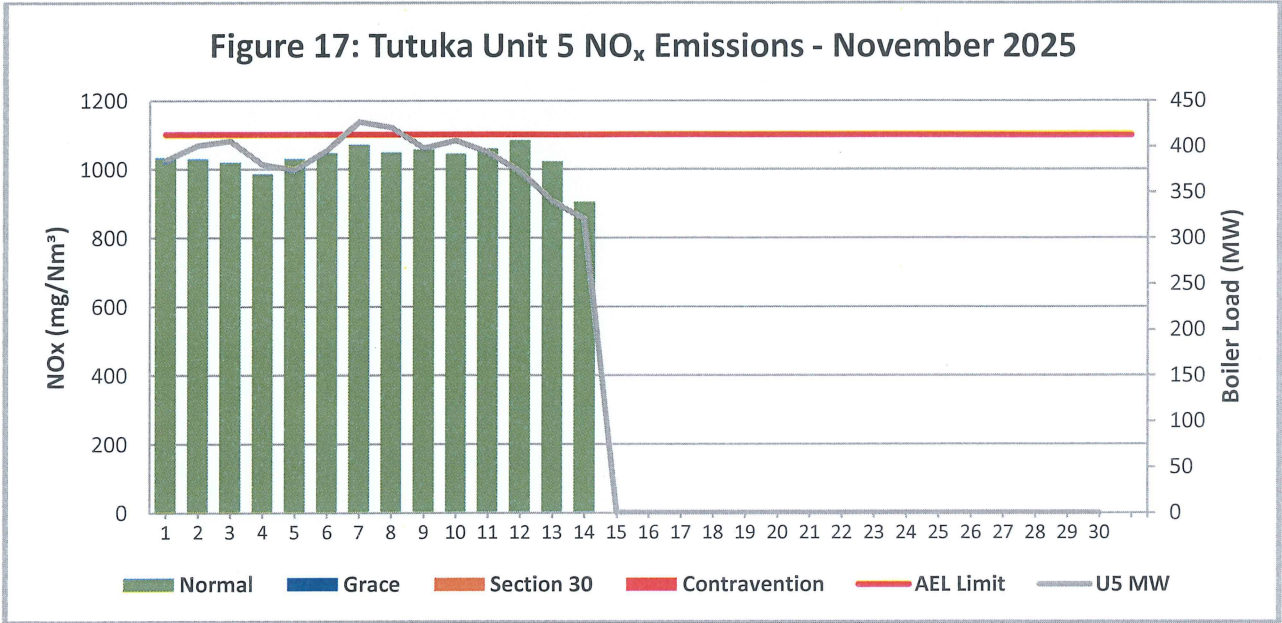
Figure 14: Tutuka Unit 2 NO<sub>x</sub> Emissions - November 2025



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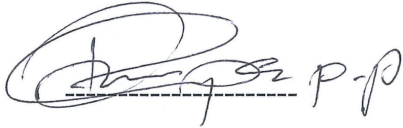
7. COMPLAINTS REGISTER

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
<p>No fuel oil leaks were detected for the month of November 2025</p> <p>No complaints were received for the month of November 2025.</p>					

**TUTUKA POWER STATION MONTHLY REPORT FOR NOVEMBER 2025**

Yours Sincerely

Compiled by:



Rotondwa Mukhwa

**SENIOR ENVIRONMENTAL ADVISOR**

Verified by:



Mankhwela Ramaboea

**ENVIRONMENTAL MANAGER**

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Mmakwena Ramatshela

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