

The Municipal Manager
 Gert Sibande District Municipality
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Date: 18 November 2025

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Dear Ms Mthembu

TUTUKA POWER STATION MONTHLY REPORT FOR OCTOBER 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 October 2025.

The report presents monthly trends for each monitored pollutant. The Station had 4-units onload for the month of October 2025, units 1, 2, 4 and 5. Unit 1 was available for 24 days, Unit 2 was available for 12 days, unit 4 was available for 12 days, Unit 5 was available for 28 days and Unit 3 & unit 6 was offload. There were no PM exceedances in the month of October.

New particulate matter (PM) and gaseous monitors were installed on Unit 1 from 21 October 2025. The data from these newly installed monitors was not used to calculate the PM mass concentrations, as the monitors had not yet been correlated. Instead, an average PM value from the period 01 to 20 October 2025 was used as a representative substitute.

For the gaseous emissions, unity factors were applied together with the new monitor data to calculate the mass concentrations.

Once the correlation curve and QAL2 factors have been finalised, the station will restate these emissions accordingly. The station exceeded the Nox limit on Unit 4 on the 21st October 2025, this was within the grace period.

1 RAW MATERIALS AND PRODUCTS

Raw Materials and Products	Raw Material Type	Units	Max. Permitted	Actual Consumption Oct-2025
	Coal	Tons	1 200 000	392 289
	Fuel Oil	Tons	10 000	3405.150



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Production Rates	Product / By-Product Name	Units	Max. Production Capacity Permitted	Indicative Production Rate Oct-2025
	Energy	GWh	2 611	743.585
	Ash	Tons	770 000	91 324.935
	RE Ash	kg/MWh	not specified	1.011

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	22.040
Sulphur Content	%	0.6 TO 2.6	1.000
Ash Content	%	21 TO 33	23.280

3 EMISSION LIMITS (mg/Nm³)

Associated Unit/Stack	PM Daily	SO ₂	NO _x	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)	99.334%
Unit 2	Electrostatic Precipitators (ESP)	99.558%
Unit 3	Electrostatic Precipitators (ESP)	Off-line
Unit 4	Electrostatic Precipitators (ESP)	99.351%
Unit 5	Electrostatic Precipitators (ESP)	98.461%
Unit 6	Electrostatic Precipitators (ESP)	Off-line

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

5 MONITOR RELIABILITY (%)

Associated Unit/Stack	PM	SO ₂	NO	O ₂
Unit 1	51.9	97.5	91.5	90.6
Unit 2	100.0	97.5	94.4	96.4
Unit 3	Off	Off	Off	Off

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Unit 4	95.8	94.3	94.8	94.3
Unit 5	98.7	90.0	94.0	87.0
Unit 6	Off	Off	Off	Off

6 EMISSION PERFORMANCE

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

Associated Unit/Stack	PM (tons)	SO ₂ (tons)	NO _x (tons)
Unit 1	189.3	2 296	1 142
Unit 2	54.3	446	246
Unit 3	Off	Off	Off
Unit 4	95.3	1 544	795
Unit 5	412.6	4 057	2 346
Unit 6	Off	Off	Off
SUM	751.52	8 343	4 529

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

Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Mnth Limit Value	Mnth Avg (mg/N m ³)
Unit 1	24	0	0	0	0	200	151.1
Unit 2	12	0	0	0	0	200	182.8
Unit 3	Off	Off	Off	Off	Off	200	Off
Unit 4	12	0	0	0	0	200	144.0
Unit 5	28	0	0	0	0	200	191.2
Unit 6	Off	Off	Off	Off	Off	200	Off
SUM	76	0	0	0	0		

Table 6.3: Operating days in compliance to SO₂ AEL Limit - October 2025

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average SO ₂ (mg/Nm ³)
Unit 1	26	0	0	0	0	1 762.5
Unit 2	13	0	0	0	0	1 488.0
Unit 3	Off	Off	Off	Off	Off	Off
Unit 4	15	0	0	0	0	1 903.4
Unit 5	29	0	0	0	0	1 827.0
Unit 6	Off	Off	Off	Off	Off	Off
SUM	83	0	0	0	0	

Table 6.4: Operating days in compliance to NO_x AEL Limit - October 2025

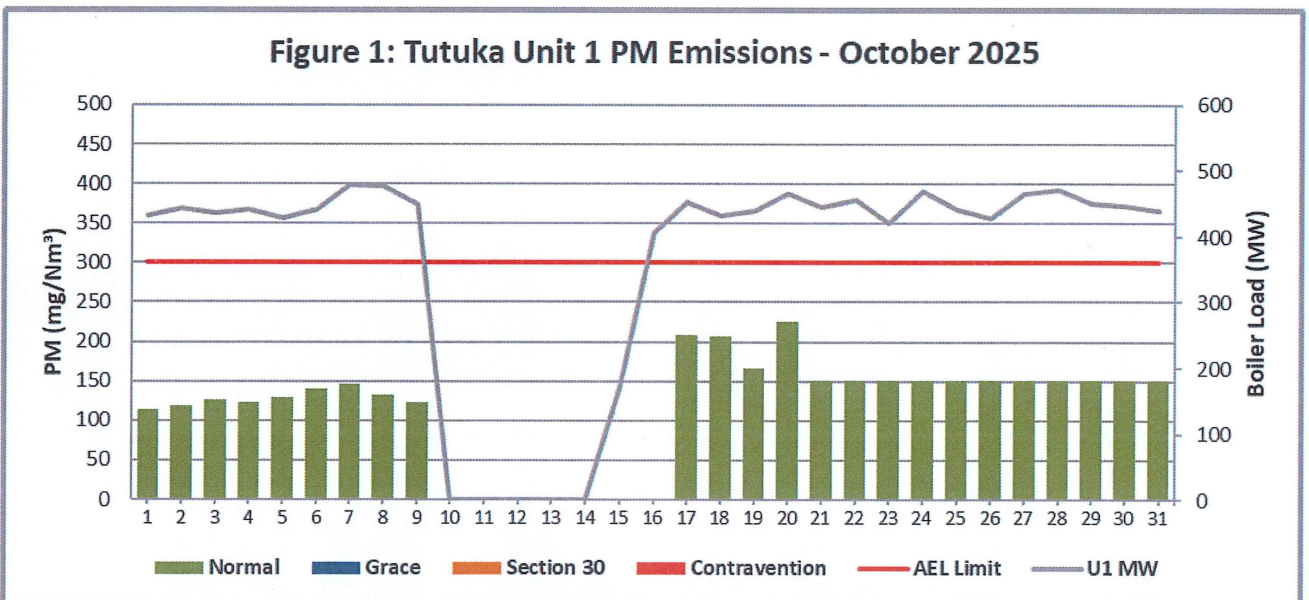
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Associated Unit/Stack	Normal	Grace	Section 30	Contra-vention	Total Exceedance	Average NOx (mg/Nm ³)
Unit 1	26	0	0	0	0	864.3
Unit 2	13	0	0	0	0	802.4
Unit 3	Off	Off	Off	Off	Off	Off
Unit 4	15	0	0	0	0	967.9
Unit 5	29	0	0	0	0	1 055.3
Unit 6	Off	Off	Off	Off	Off	Off
SUM	83	0	0	0	0	

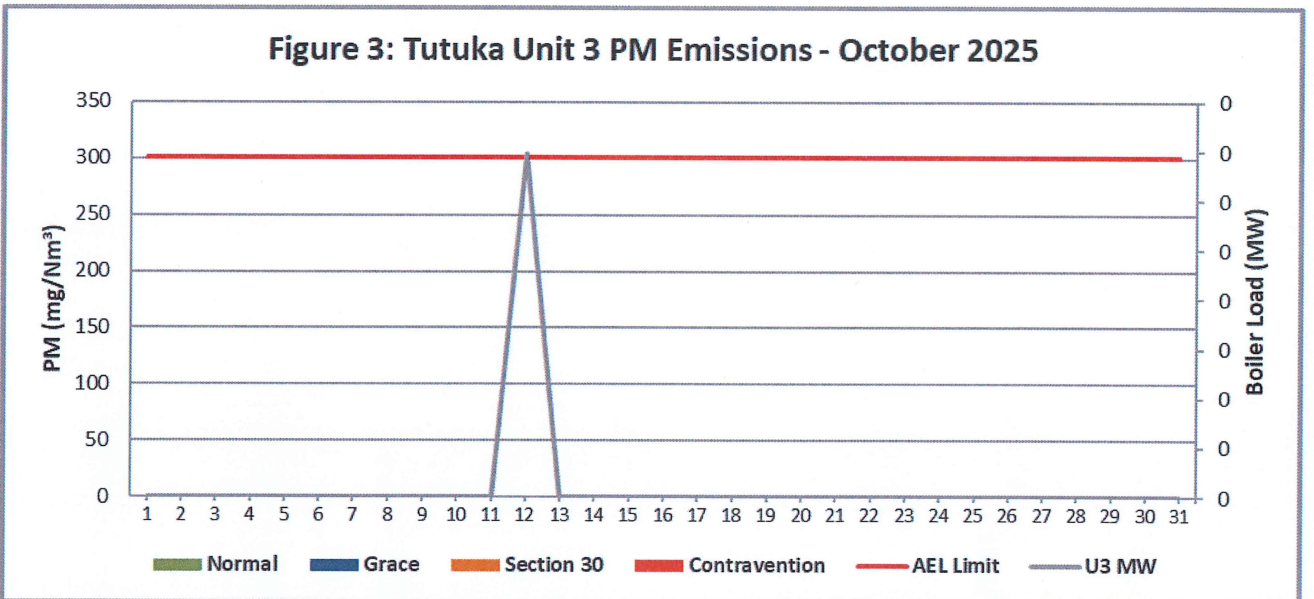
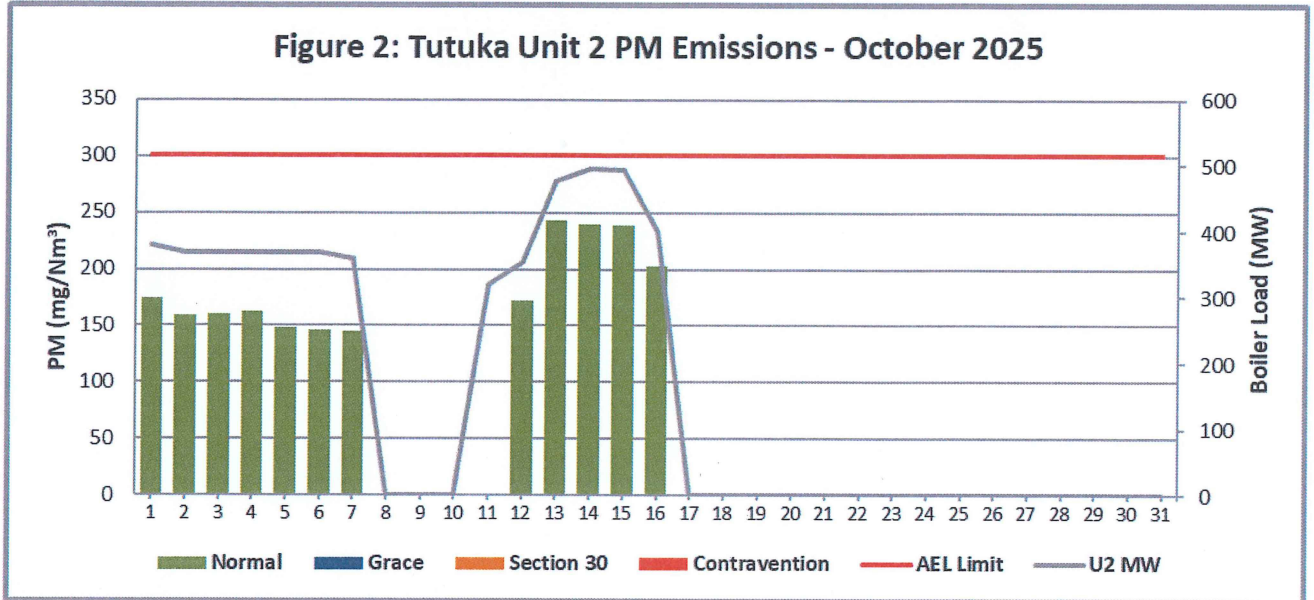
Note: NOx emission is measured as NO in PPM. Final NOx value is expressed as total NO₂

Table 6.5: Legend Description

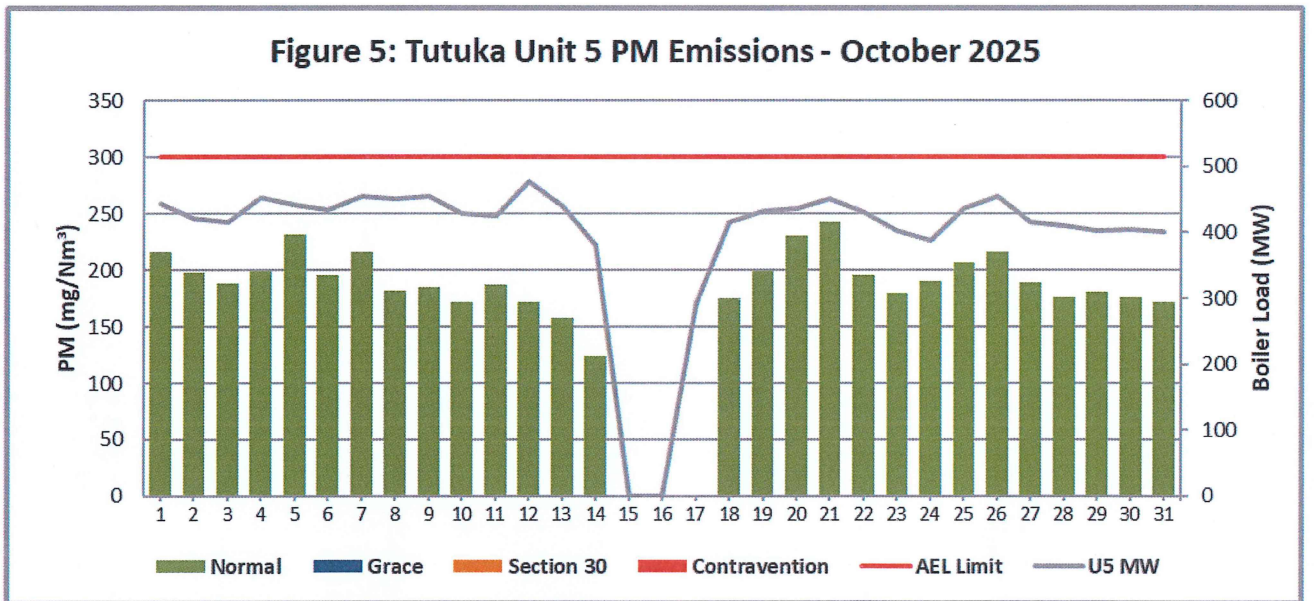
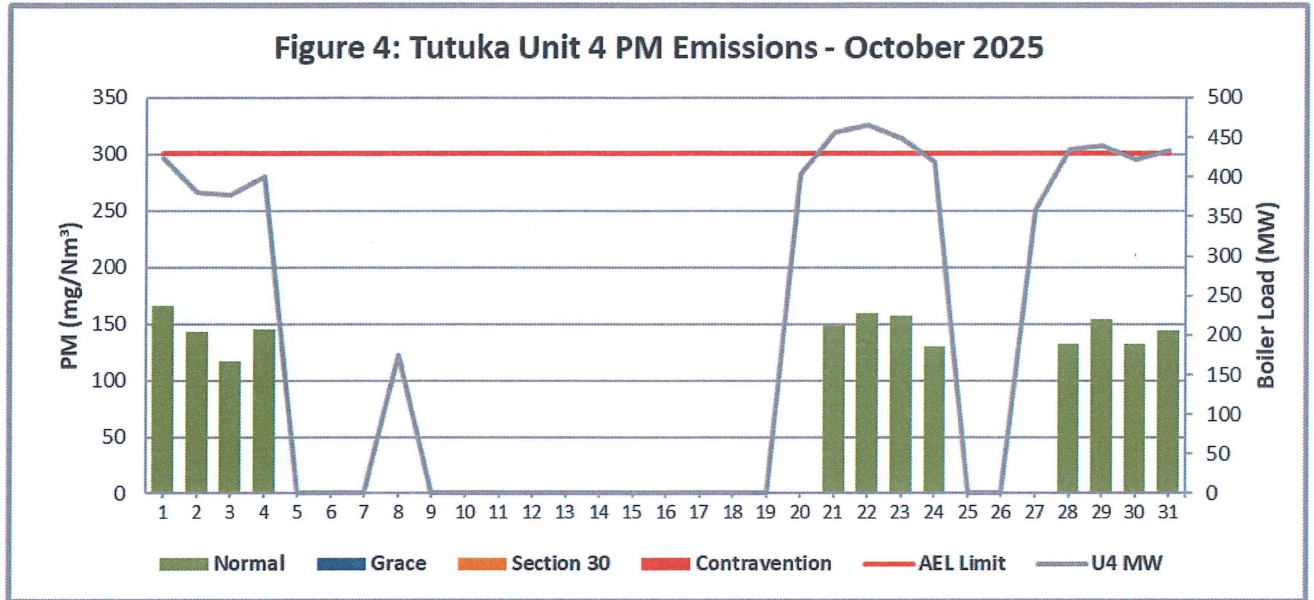
Condition	Colour	Description
Normal	Green	Emissions below Emission Limit Value (ELV)
Grace	Blue	Emissions above the ELV during grace period
Section 30	Orange	Emissions above ELV during a NEMA S30 incident
Contra-vention	Red	Emissions above ELV but outside grace or S30 incident conditions



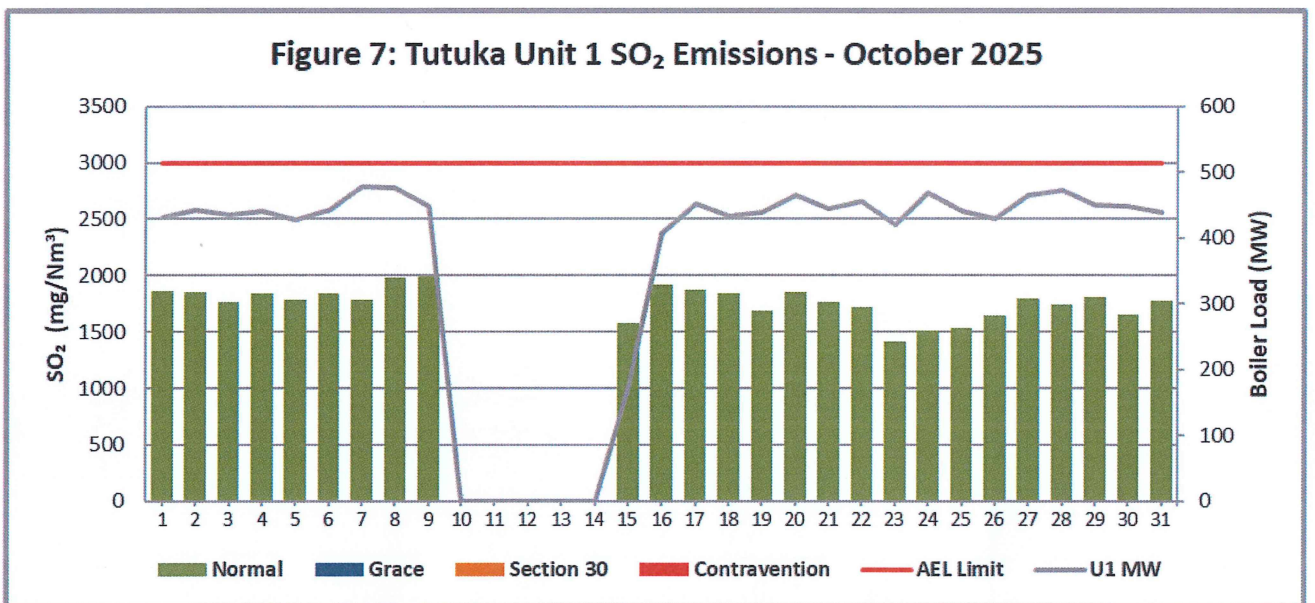
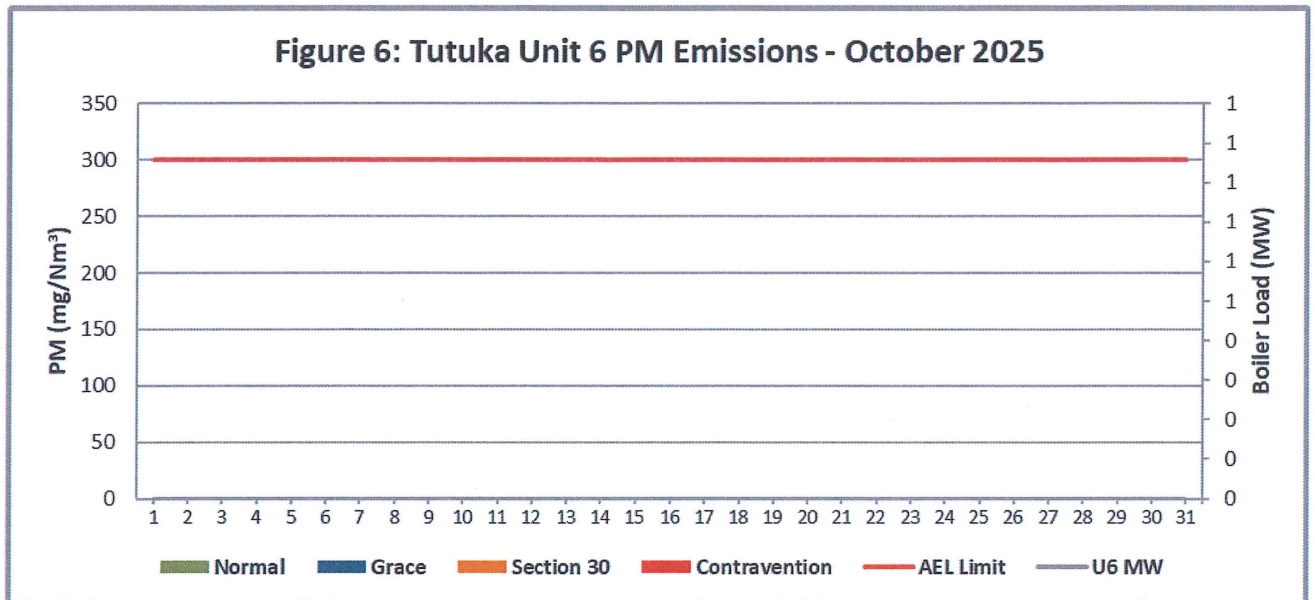
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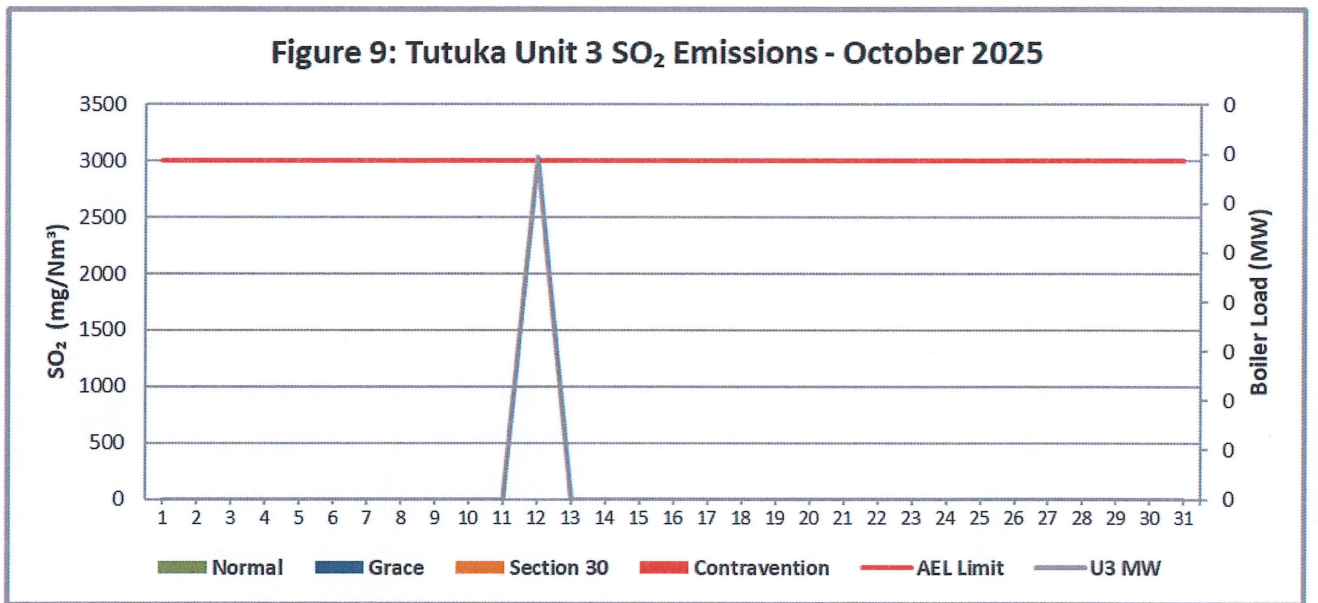
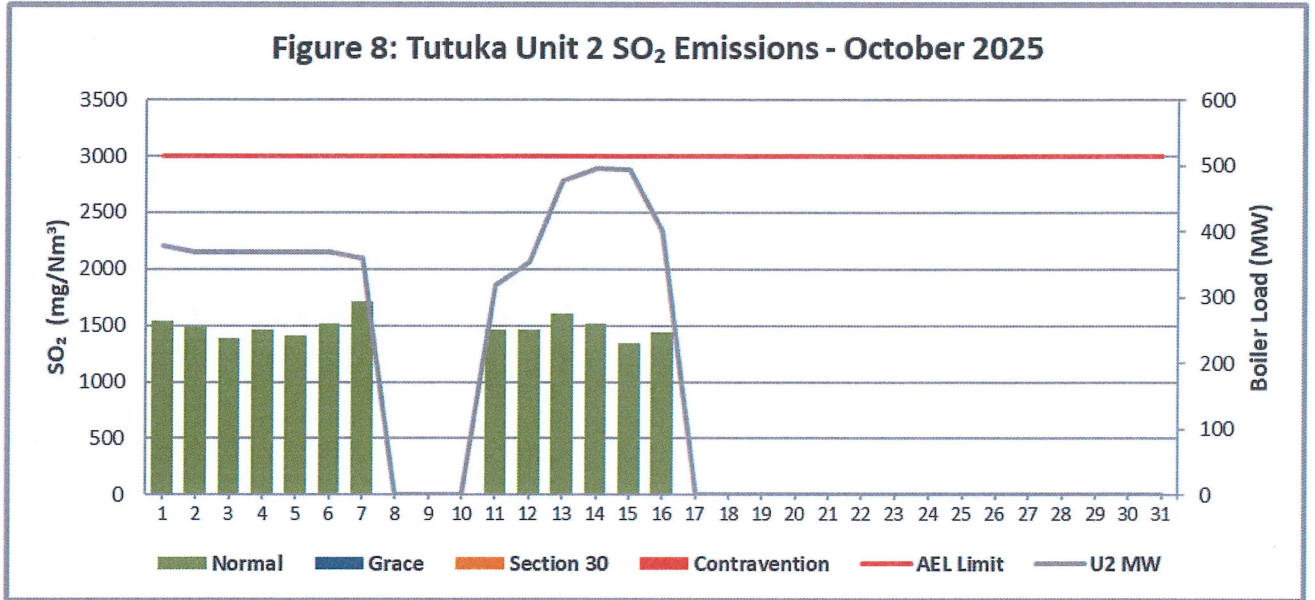
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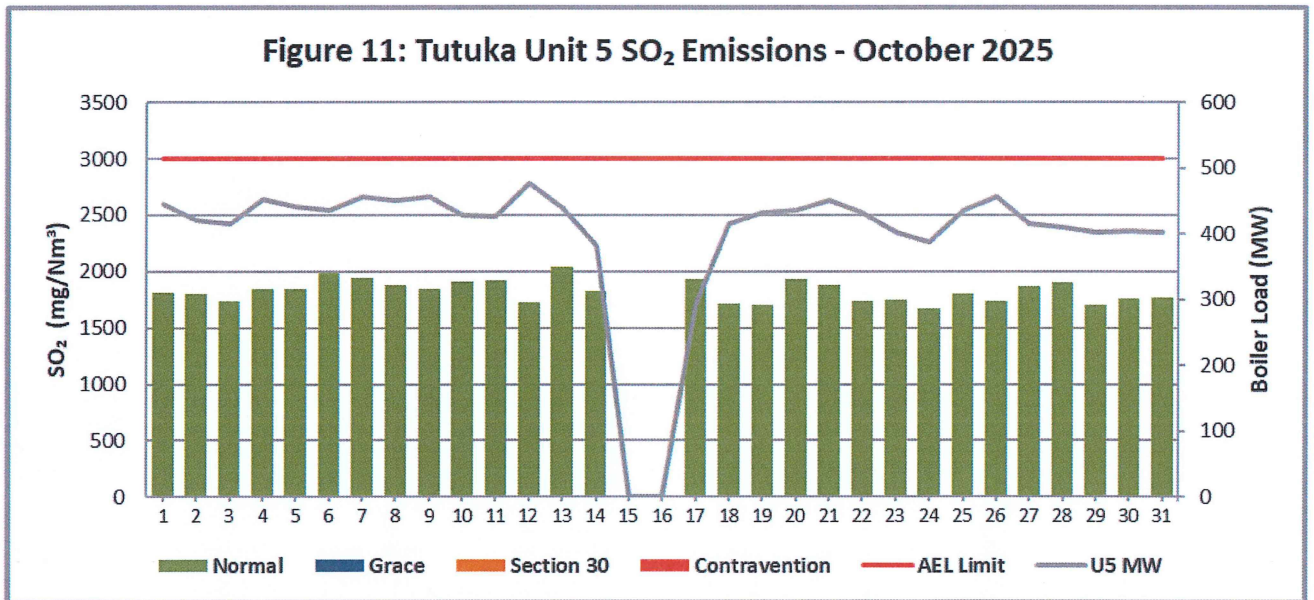
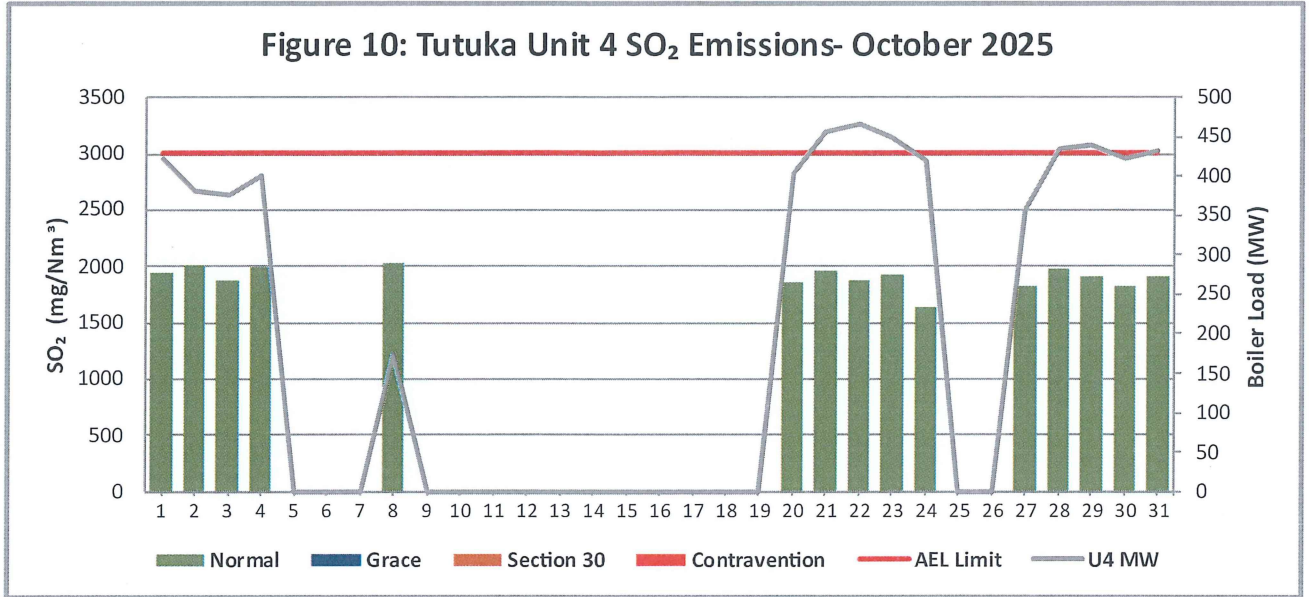
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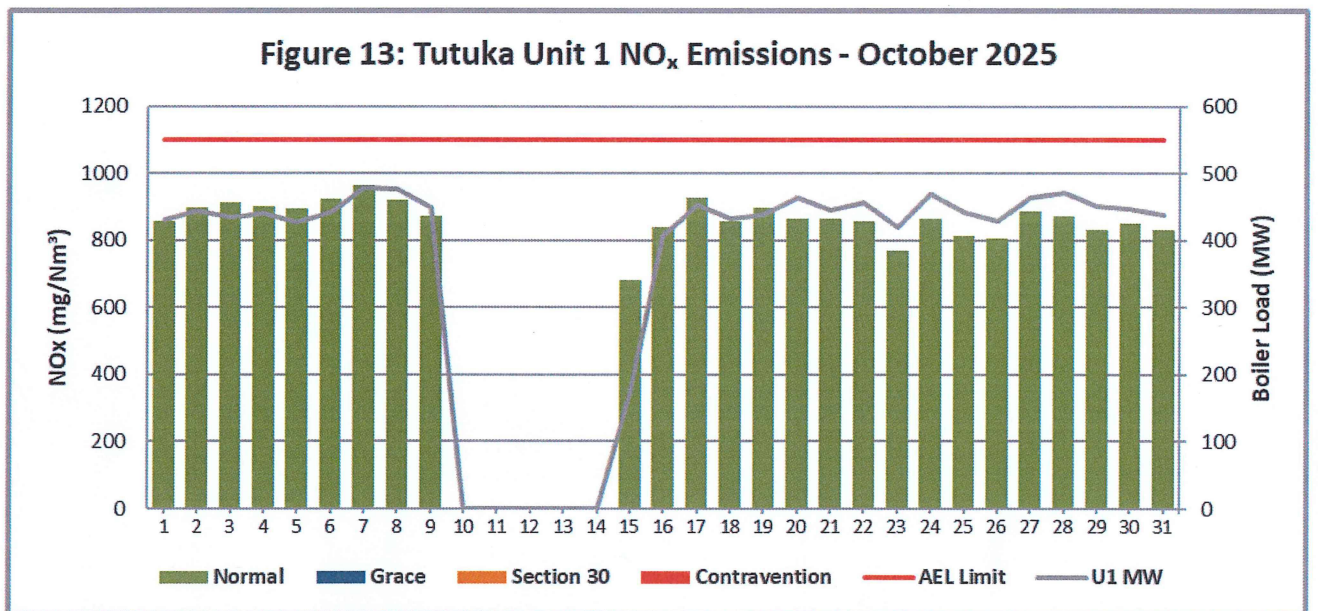
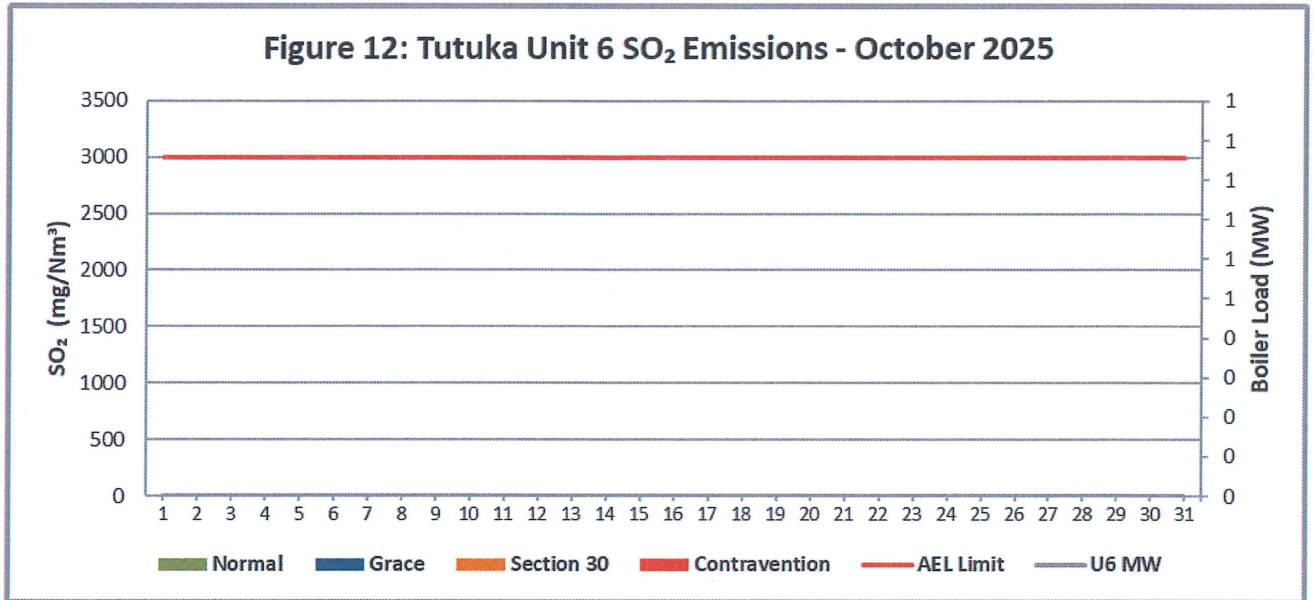
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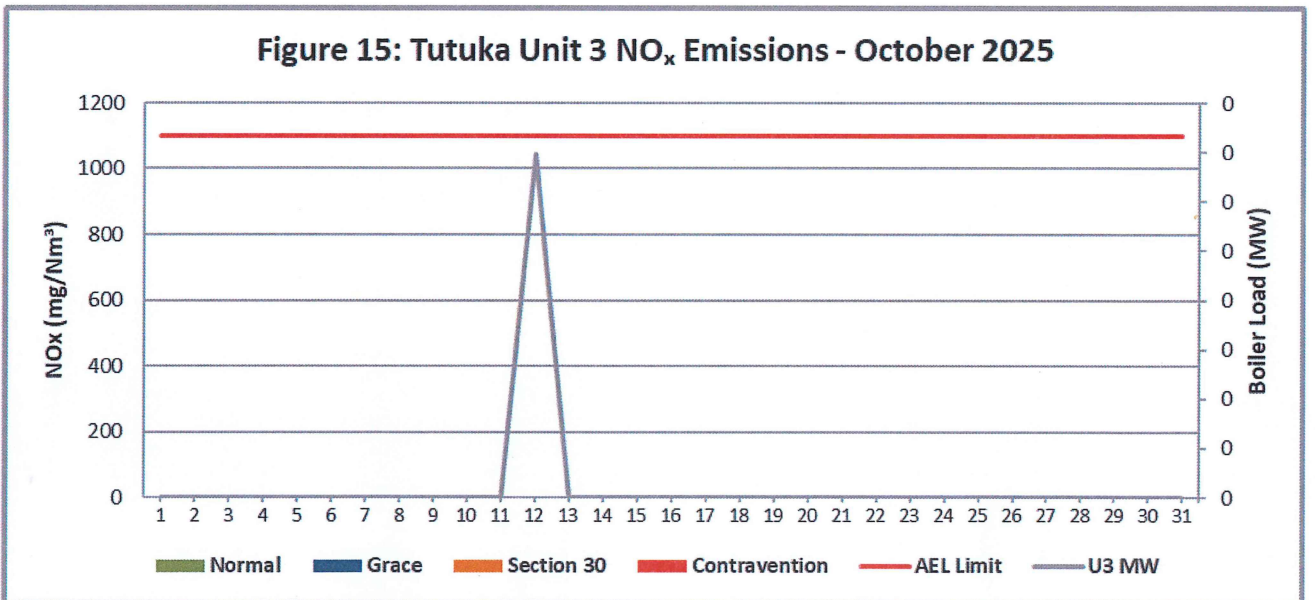
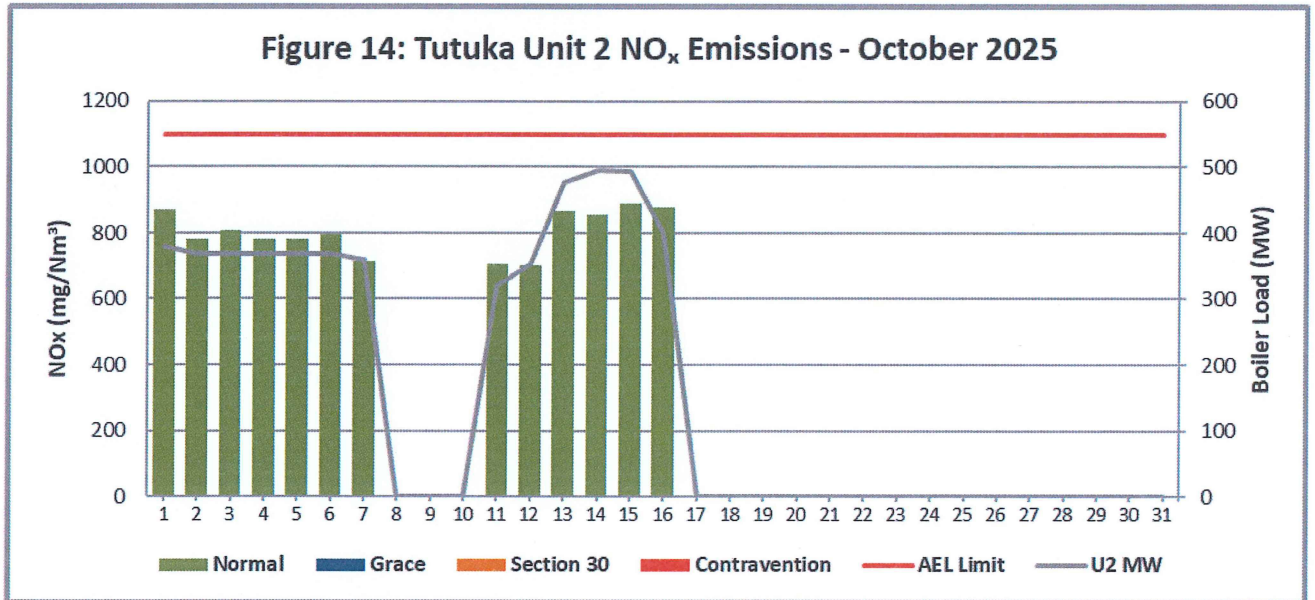
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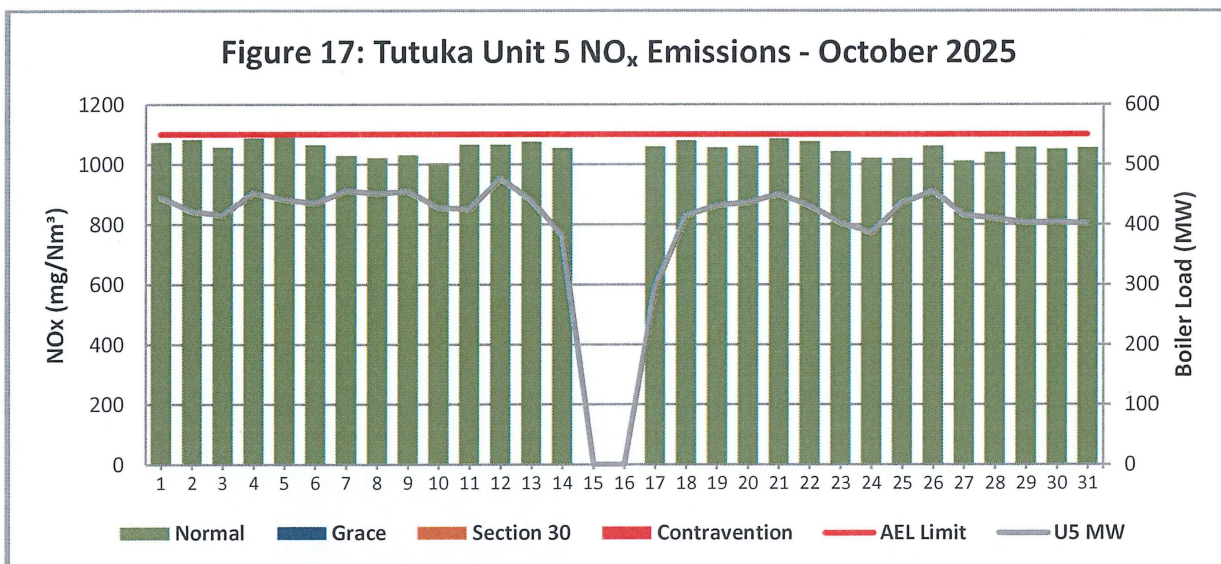
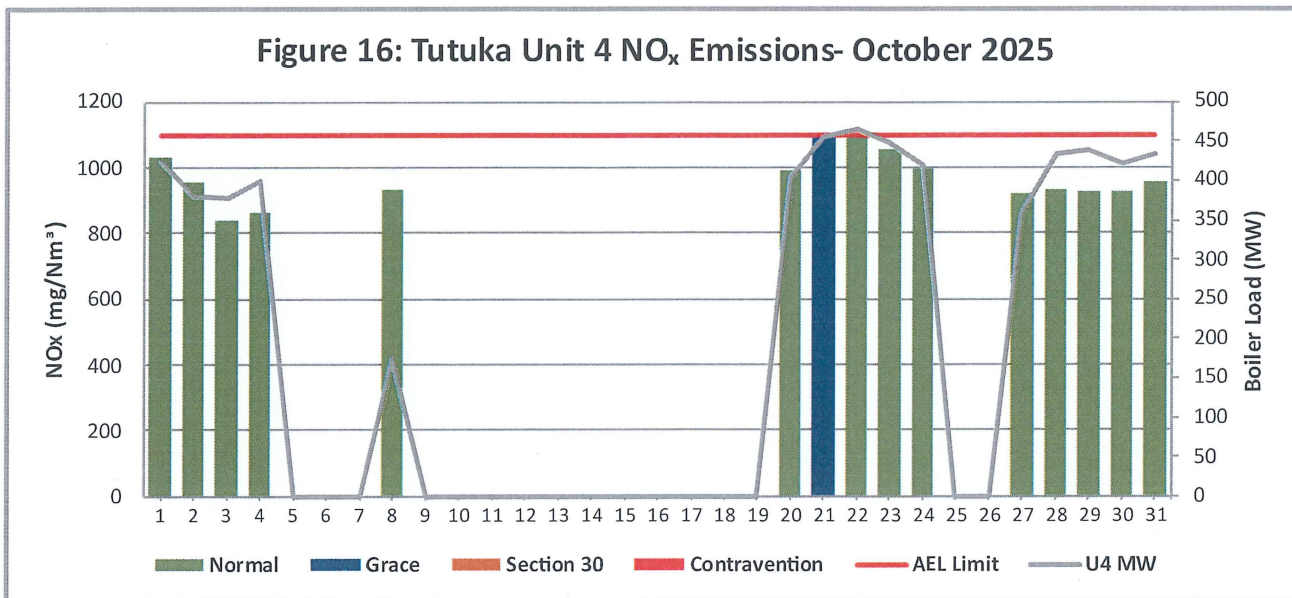
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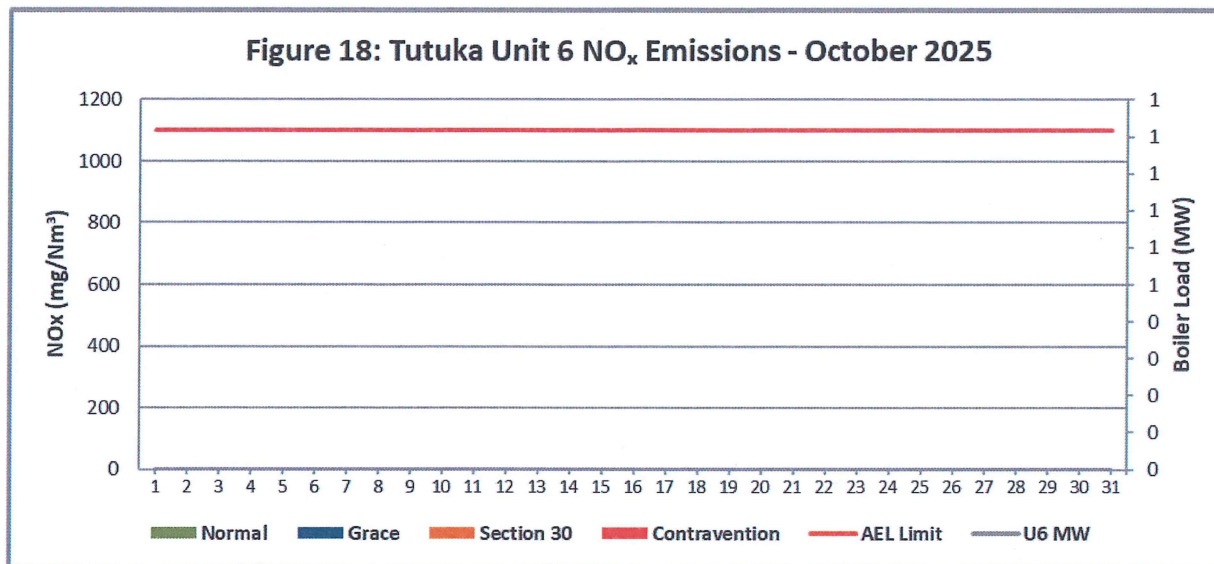
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7. COMPLAINTS REGISTER

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 October 2025</p> <p>No complaints were received for the month of October 2025.</p>					

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Yours Sincerely

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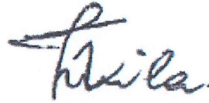


Rotondwa Mukhwa

SENIOR ENVIRONMENTAL ADVISOR

Date: 18/11/2025

Verified by:

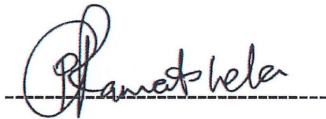


Xoli Jila

ACTING ENVIRONMENTAL MANAGER

Date: 18/11/2025

Supported by:

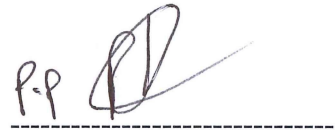


Mmakwena Ramatshela

BOILER ENGINEER

Date: 18/11/2025

Approved by:



Bruce Moyo

GENERAL MAMANGER

Date: 20/11/2025