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Date: 12 June 2025

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Dear Ms Mthembu

TUTUKA POWER STATION MONTHLY REPORT FOR MAY 2025

This serves as the monthly report required in terms of Section 7.4 of Tutuka Power Station's Atmospheric Emission License (16/4/Lekwa/Eskom H SOC Ltd TPS/0013/2019/f03). The report includes verified emissions for Particulate Matters, Sulphur, and Nitrogen dioxides for the month of May 2025

The report presents monthly trends for each monitored pollutant. The Station had 4-units onload for the month of May 2025, units 2, 3, 4 and 5. Units 1 and 6 were offload. The Station perform within its limit on PM, Sox and Nox.

1 RAW MATERIALS AND PRODUCTS

Raw Materials and Products	Raw Material Type	Units	Max. Permitted	Actual Consumption May-2025
	Coal	Tons	1 200 000	388 686
	Fuel Oil	Tons	10 000	3242.45
Production Rates	Product / By-Product Name	Units	Max. Production Capacity Permitted	Indicative Production Rate May-2025
	Energy	GWh	2 611	709.9
	Ash	Tons	350 000	93 557
	RE Ash	kg/MWh	not specified	1.64

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

Generation
Tutuka Power Station
Standerton/Bethal Road
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Tel +27 17 749 9237 www.eskom.co.za
Eskom Holdings SOC Ltd Reg No 2002/015527/30

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2 ENERGY SOURCE CHARACTERISTICS

Coal Characteristics	Units	Stipulated Range	Monthly Average Content
CV Content	MJ/kg	16.24	22 050
Sulphur Content	%	0.67 to 2.1	0.640
Ash Content	%	11.70 to 13	24 070

3 EMISSION LIMITS (mg/Nm³)

Associated Unit/Stack	PM	SO ₂	NOx
Unit 1	300	3000	1100
Unit 2	300	3000	1100
Unit 3	300	3000	1100
Unit 4	300	3000	1100
Unit 5	300	3000	1100
Unit 6	300	3000	1100

4 ABATEMENT TECHNOLOGY (%)

Associated Unit/Stack	Technology Type	Efficiency May-2025
Unit 1	Electrostatic Precipitator (ESP)	99.5%
Unit 2	Electrostatic Precipitator (ESP)	99.5%
Unit 3	Electrostatic Precipitator (ESP)	98.0%
Unit 4	Electrostatic Precipitator (ESP)	99.4%
Unit 5	Electrostatic Precipitator (ESP)	98.1%
Unit 6	Electrostatic Precipitator (ESP)	99.5%

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

5 MONITOR RELIABILITY (%)

Associated Unit/Stack	PM	SO ₂	NO
Unit 1	On	On	On
Unit 2	100.0	0.0	0.0
Unit 3	99.8	79.9	24.8
Unit 4	100.0	99.0	92.2
Unit 5	99.6	94.8	72.4
Unit 6	On	On	On

SOx (units 2 and 3) and NOx (units 2 -5) monitors malfunctioned, and surrogate values were used to estimate the emissions

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6 EMISSION PERFORMANCE

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

Associated Unit/Stack	PM (tons)	SO ₂ (tons)	NO _x (tons)
Unit 1	Off	Off	Off
Unit 2	21.6	123	79
Unit 3	490.7	3 808	1 227
Unit 4	184.0	3 291	1 460
Unit 5	422.5	3 321	1 676
Unit 6	Off	Off	Off
SUM	1 118.8	10 544	4 442

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

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average PM (mg/Nm ³)
Unit 1	Off	Off	Off	Off	Off	Off
Unit 2	4	0	0	0	0	207.5
Unit 3	13	10	0	0	10	303.3
Unit 4	28	0	0	0	0	114.8
Unit 5	21	1	0	0	1	243.6
Unit 6	Off	Off	Off	Off	Off	Off
SUM	66	11	0	0	11	

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

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average SO ₂ (mg/Nm ³)
Unit 1	Off	Off	Off	Off	Off	Off
Unit 2	4	0	0	0	0	1 199.2
Unit 3	24	0	0	0	0	2 271.4
Unit 4	29	0	0	0	0	2 094.9
Unit 5	24	0	0	0	0	1 944.6
Unit 6	Off	Off	Off	Off	Off	Off
SUM	81	0	0	0	0	

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

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average NO _x (mg/Nm ³)
Unit 1	Off	Off	Off	Off	Off	Off
Unit 2	4	0	0	0	0	769.4
Unit 3	24	0	0	0	0	739.3
Unit 4	29	0	0	0	0	924.0
Unit 5	23	0	0	0	0	959.0
Unit 6	Off	Off	Off	Off	Off	Off
SUM	80	0	0	0	0	

Note: NO_x emissions is measured as NO in PPM. Final NO_x value is expressed as total NO₂

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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

Figure 2: Tutuka Unit 2 PM Emissions - May 2025

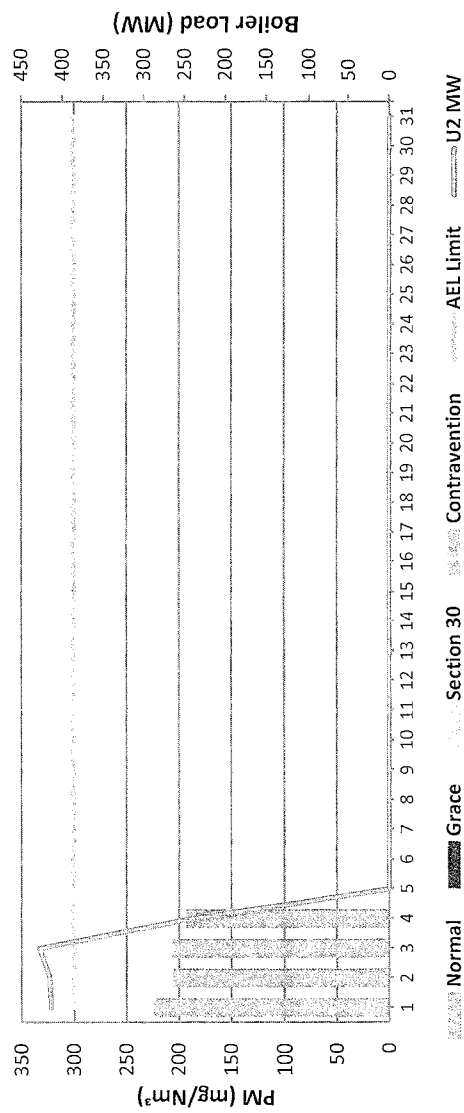
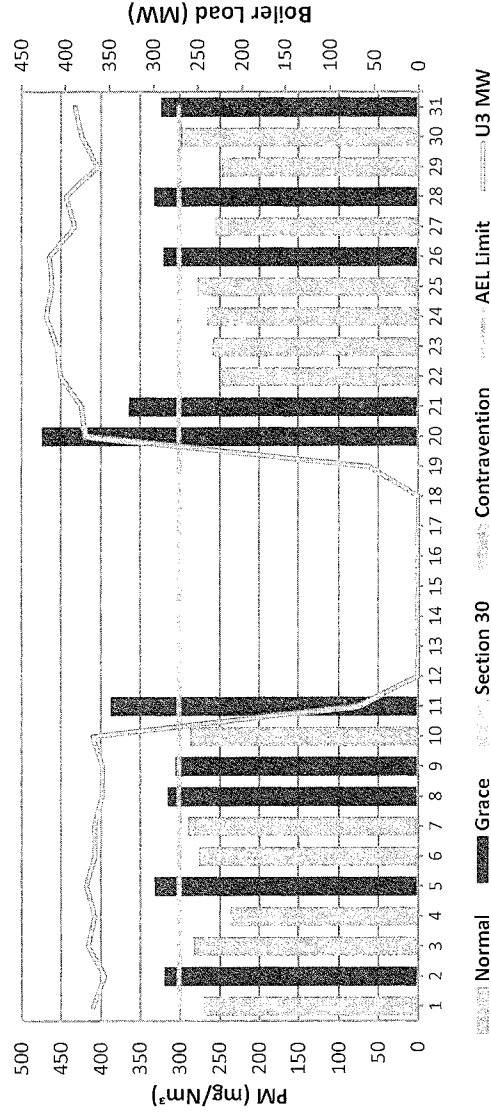


Figure 3: Tutuka Unit 3 PM Emissions - May 2025



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Figure 4: Tutuka Unit 4 PM Emissions - May 2025

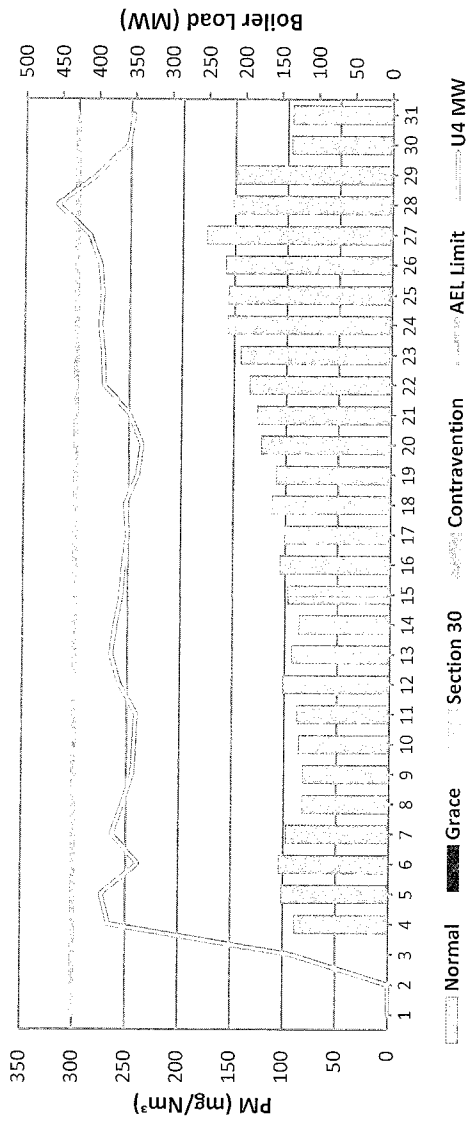


Figure 5: Tutuka Unit 5 PM Emissions - May 2025

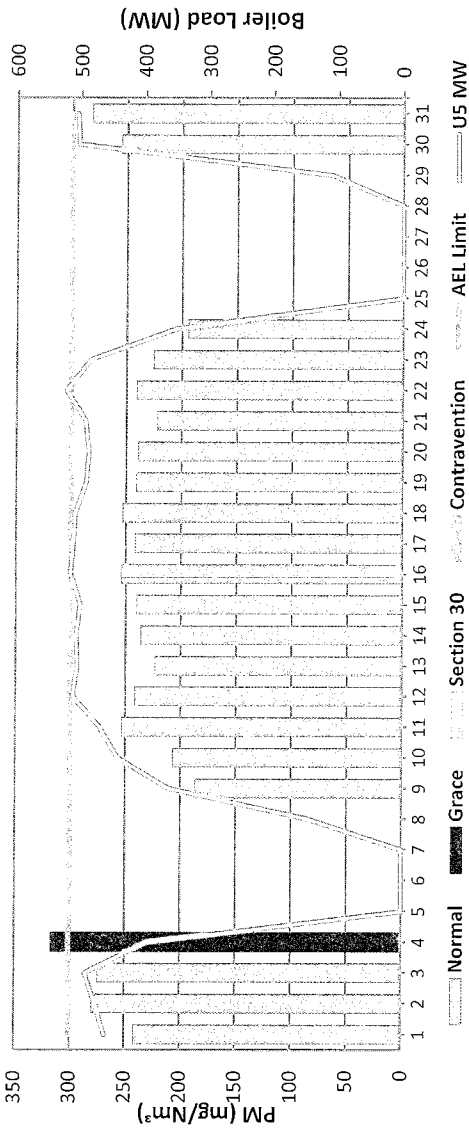
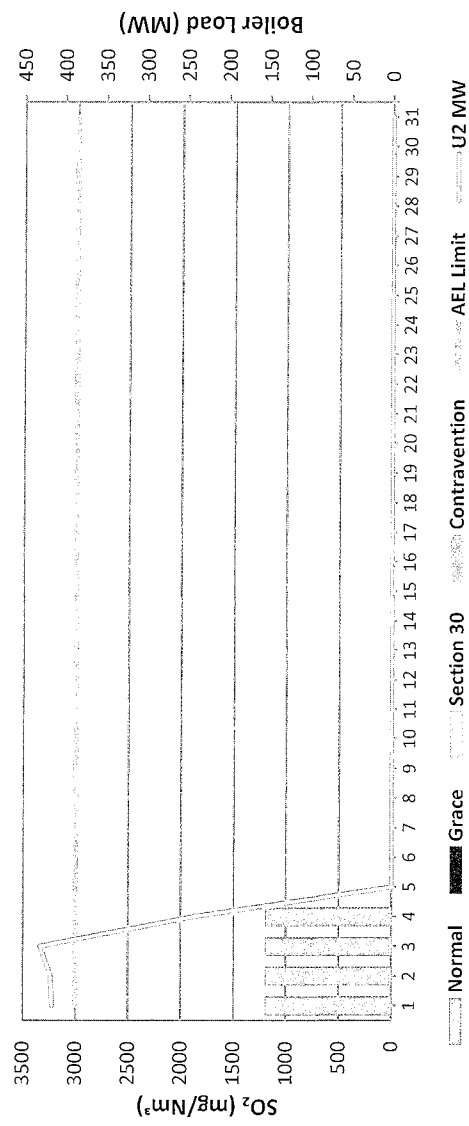
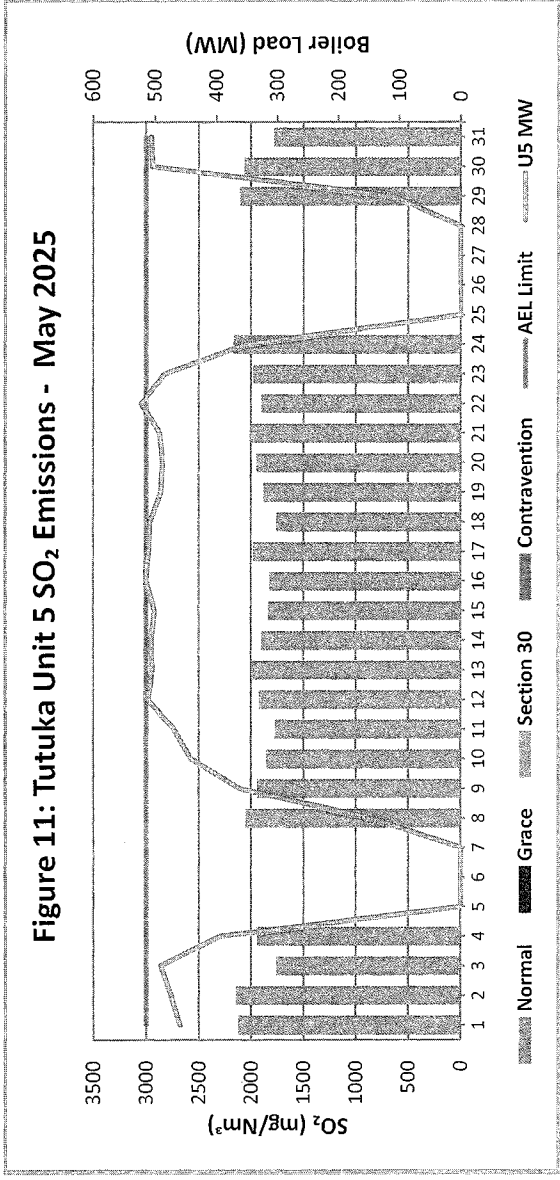
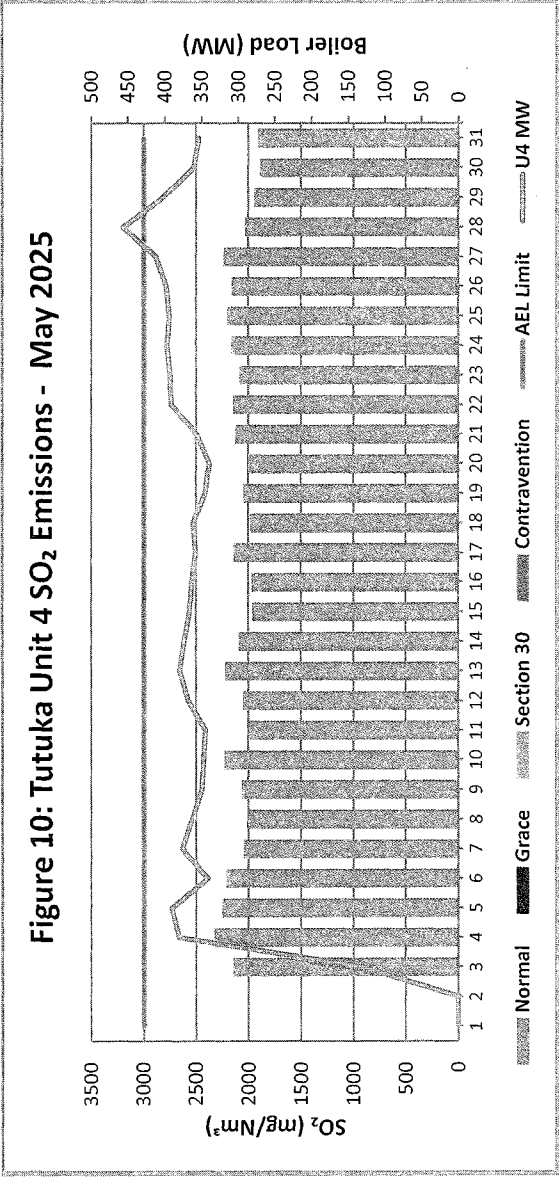
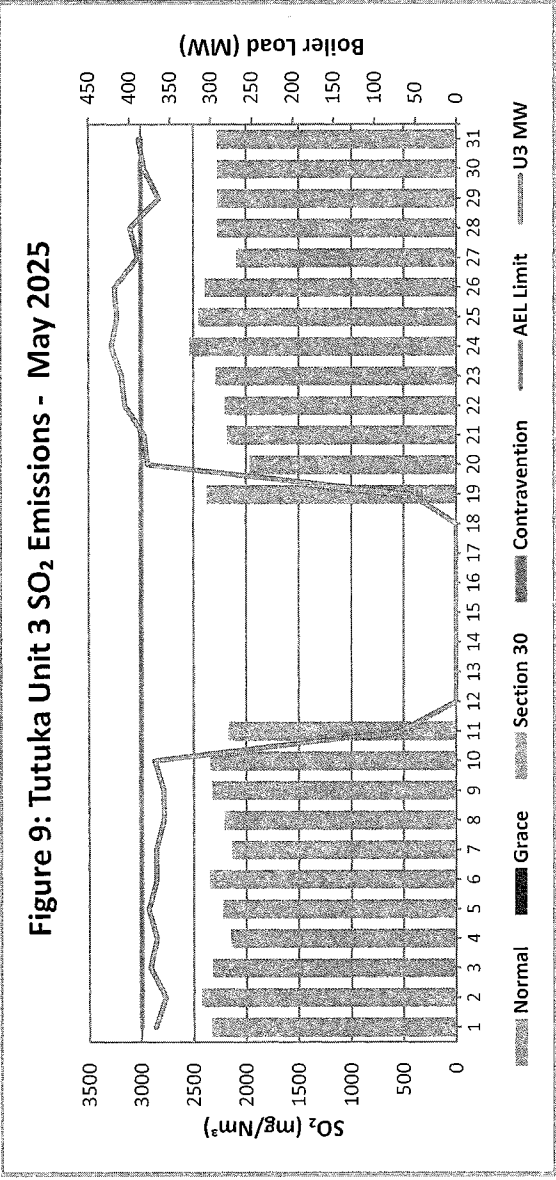


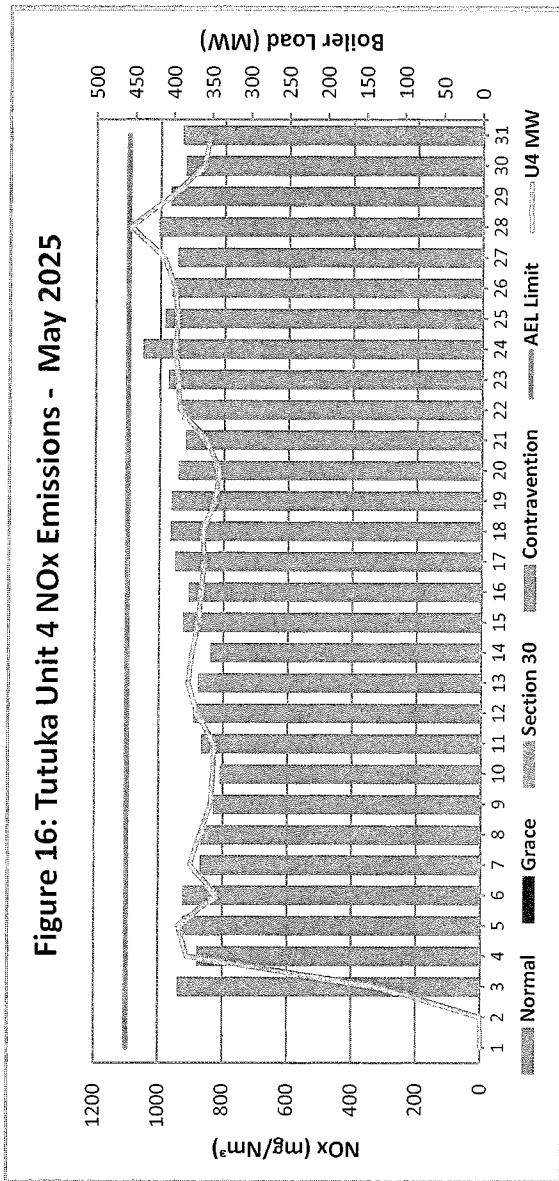
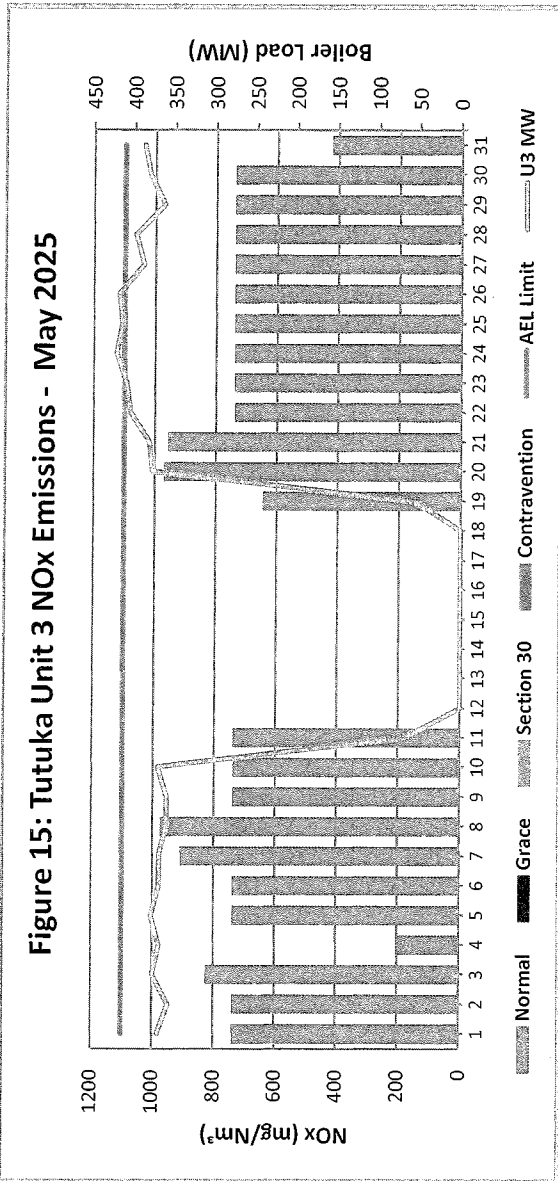
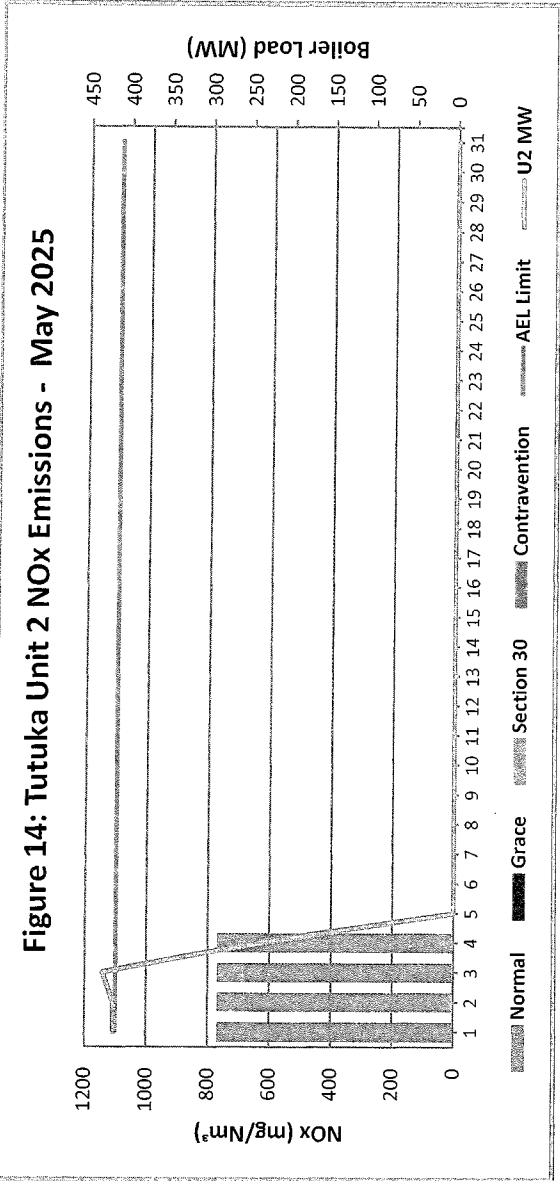
Figure 8: Tutuka Unit 2 SO₂ Emissions - May 2025



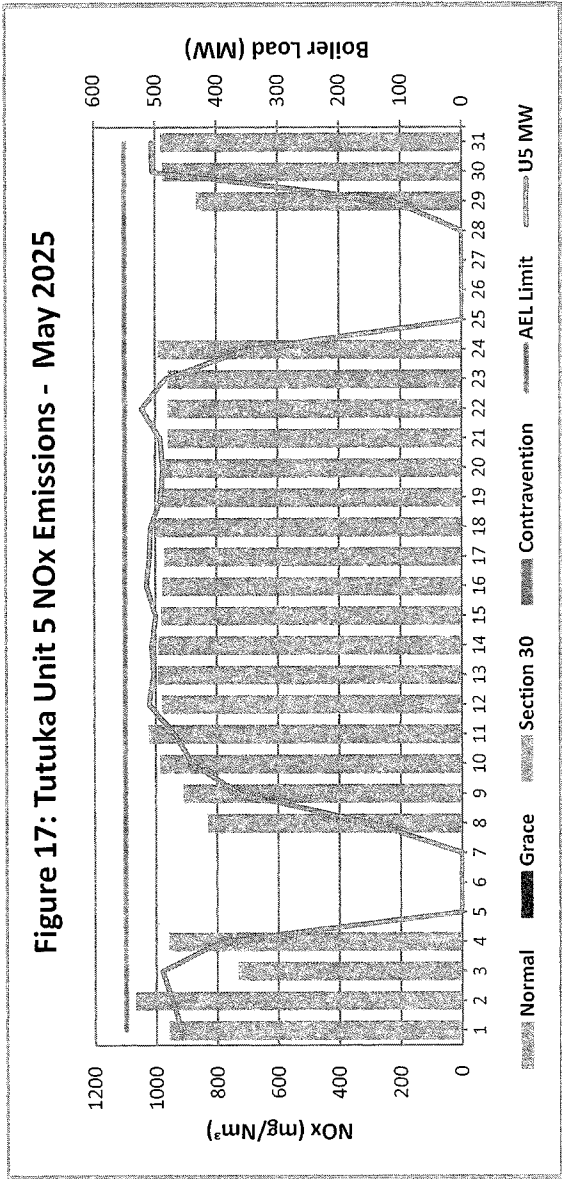
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7. COMPLAINTS REGISTER

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
No complaints were received for the month of May 2025.					

Yours Sincerely

Compiled by:

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12/06/2025
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