

Ms Nompumelelo Simelane
Nkangala District Municipality
PO Box 437
Middleburg
1050

Date:
January 2026

Enquiries: Lesiba Kgobe
Tel: +27 13 699 7817

Ref: *Kusile Power Station AEL (17/4/AEL/MP311/12/01)*


Dear Ms. Simelane

KUSILE POWER STATION'S MONTHLY EMISSIONS REPORT FOR DECEMBER 2025

This serves as the monthly report required in terms of Section 7.6 in Kusile Power Station's Atmospheric Emission License: 17/4/AEL/MP311/12/01. The emissions are for the month of December 2025.

Hoping the above will meet your satisfaction.

Yours sincerely



Christopher Nani
GENERAL MANAGER
DATE: *28/01/2026*

1. KUSILE POWER STATION MONTHLY EMISSIONS REPORT: Atmospheric Emission License 17/4/AEL/MP311/12/01



2. Raw Materials and Products

Raw Materials and Products	Raw Material Type	Units	Max Permitted Consumption Rate	Consumption Rate Dec-2025
	Coal	Tons	1 818 083	963 291
	Fuel Oil	Tons	5 533	3 023
	Limestone	Tons	72 017	34 958
Production Rates	Product / By-Product Name	Units	Max Production Capacity Permitted	Indicative Production Rate Dec-2025
	Energy	GWh	3 321.216	1 623.16
	Ash	Tons	796 300	315 423
	Gypsum	Tons	155 100	19 576
	RE PM	kg/MWh	not specified	0.03
	RE SOx	kg/MWh	not specified	1.46

Note: Maximum energy rate is as per the maximum capacity stated in the AEL: [4 464 MW] x 24 hrs x days in Month/1000 to convert to GWh

3. Energy source characteristics

Fuel Characteristic	Units	Stipulated Range	Monthly Average Content
Coal Sulphur	%	1.3	0.97
Ash in Coal	%	38	32.74
Fuel Oil Sulphur	%	3.5	2.28

4. Emissions Limits (mg/Nm³)

Associated Unit/Stack	PM	SO ₂	NO _x
North Stack	50	1000	750
South Stack	50	1000	750

5. Abatement Technology (%)

Associated Unit/Stack	Technology Type	Efficiency Dec-2025	Technology Type	Efficiency Dec-2025
Unit 1	FFP	99.99%	FGD	99.70%
Unit 2	FFP	99.95%	FGD	99.85%
Unit 3	FFP	99.99%	FGD	99.88%
Unit 4	FFP	99.99%	FGD	99.95%
Unit 5	FFP	99.99%	FGD	99.94%

Note: The FFP and FGD plant does not have a bypass mode; therefore, it operates at 100% utilization.

6. Monitoring reliability (%)

Associated Unit/Stack	PM	SO ₂	NO
Unit 1	100.0	100.0	100.0
Unit 2	100.0	100.0	100.0
Unit 3	100.0	100.0	100.0
Unit 4	99.6	99.3	99.1
Unit 5	100.0	98.5	98.5

Note: NO_x emissions are measured as NO in PPM. The final NO_x value is expressed as total NO₂ equivalent.

7. Emissions Performance

Table 7.1: Monthly tonnages for the month of December - 2025

Associated Unit/Stack	PM	SO ₂	NO _x
Unit 1	6.5	1 217	718
Unit 2	22.1	424	289
Unit 3	6.6	372	386
Unit 4	9.2	203	785
Unit 5	4.2	159	668
SUM	48.69	2 375	2 846

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Table 7.2: PM AEL Daily Compliance - December 2025

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Mnth Avg (mg/Nm ³)
Unit 1	30	0	0	0	0	3.0
Unit 2	21	0	0	0	0	17.9
Unit 3	26	0	0	0	0	3.2
Unit 4	31	0	0	0	0	3.7
Unit 5	20	0	0	0	0	2.8
SUM	128	0	0	0	0	





Table 7.3: SO₂ AEL Daily & Monthly Compliance – December 2025

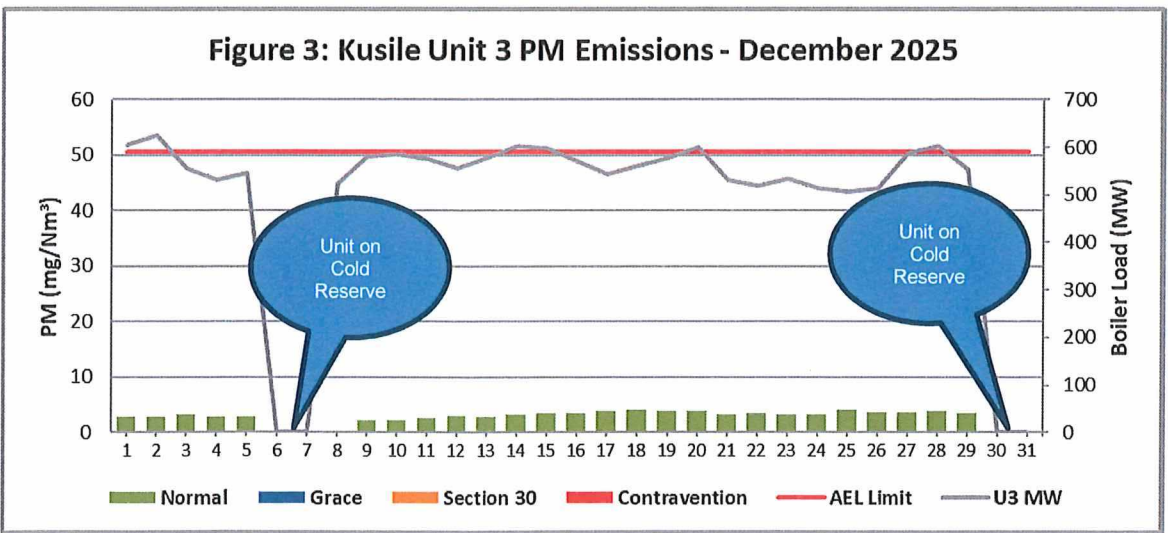
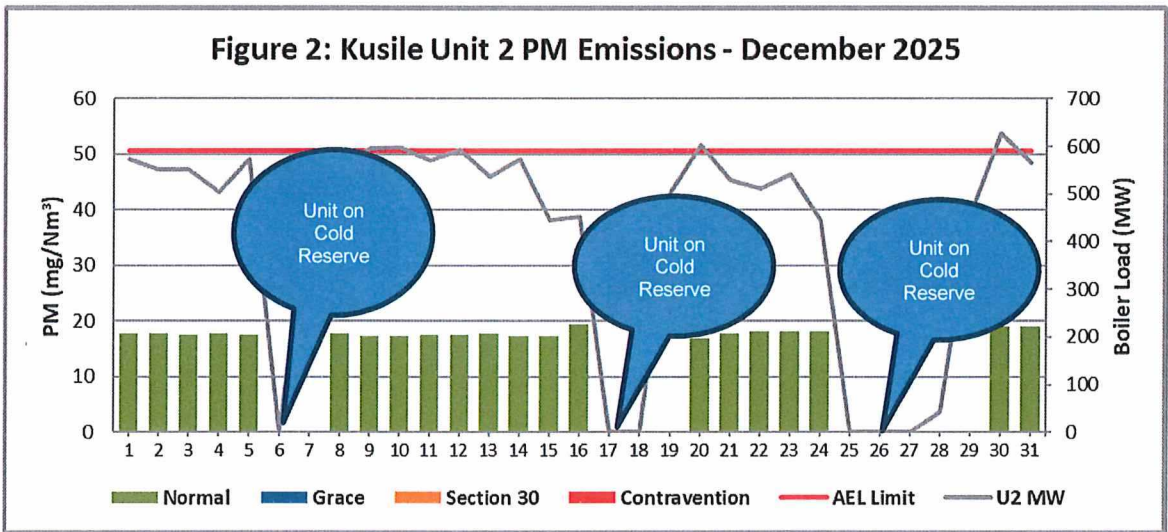
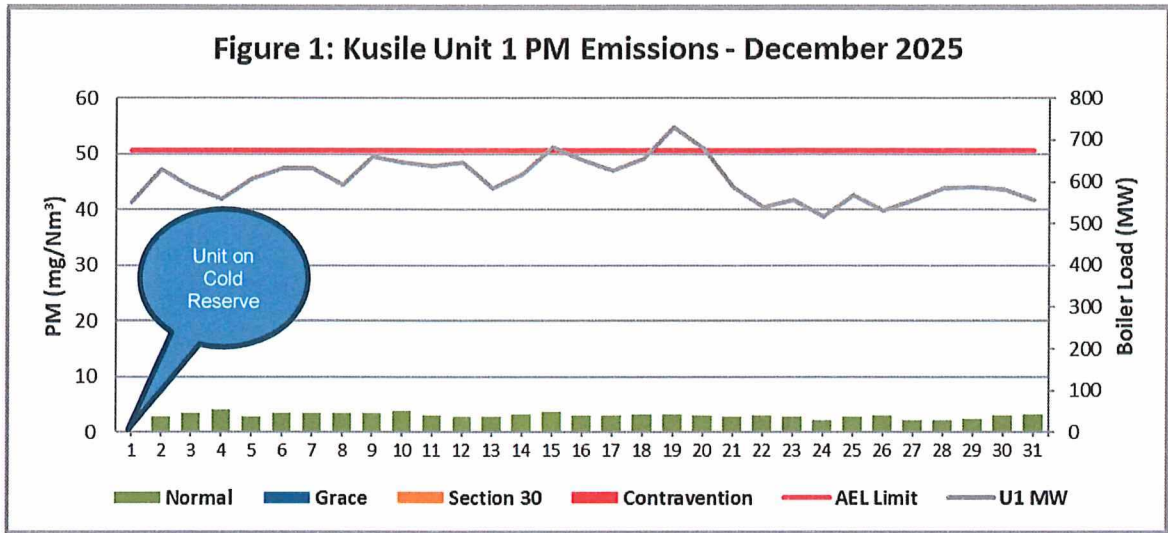
Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Mnth Avg (mg/Nm ³)
Unit 1	31	0	0	0	0	522.2
Unit 2	25	0	0	0	0	255.1
Unit 3	27	0	0	0	0	172.3
Unit 4	31	0	0	0	0	77.9
Unit 5	20	0	0	0	0	102.5
SUM	134	0	0	0	0	

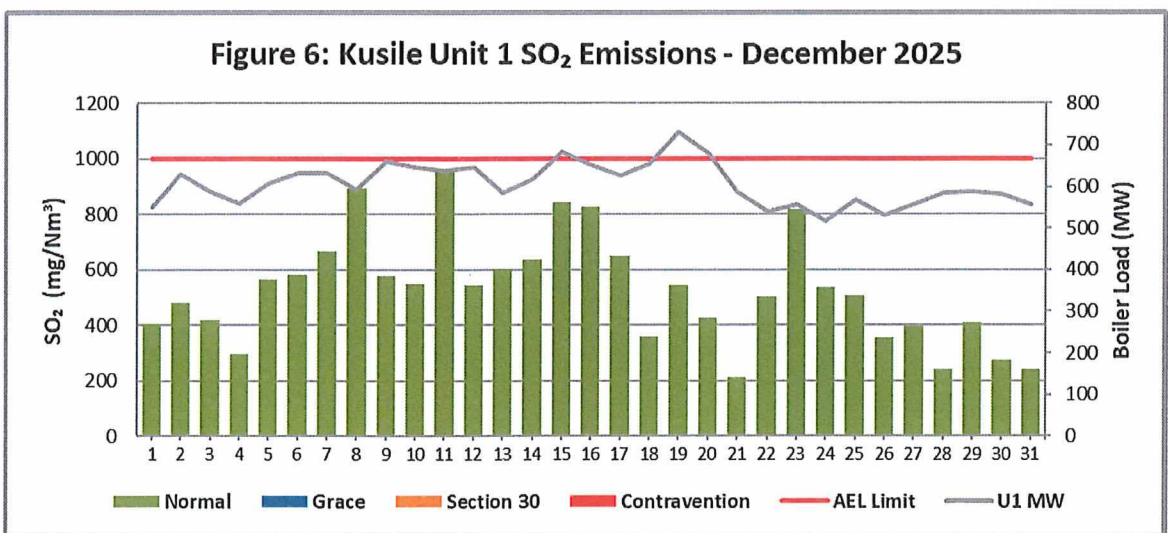
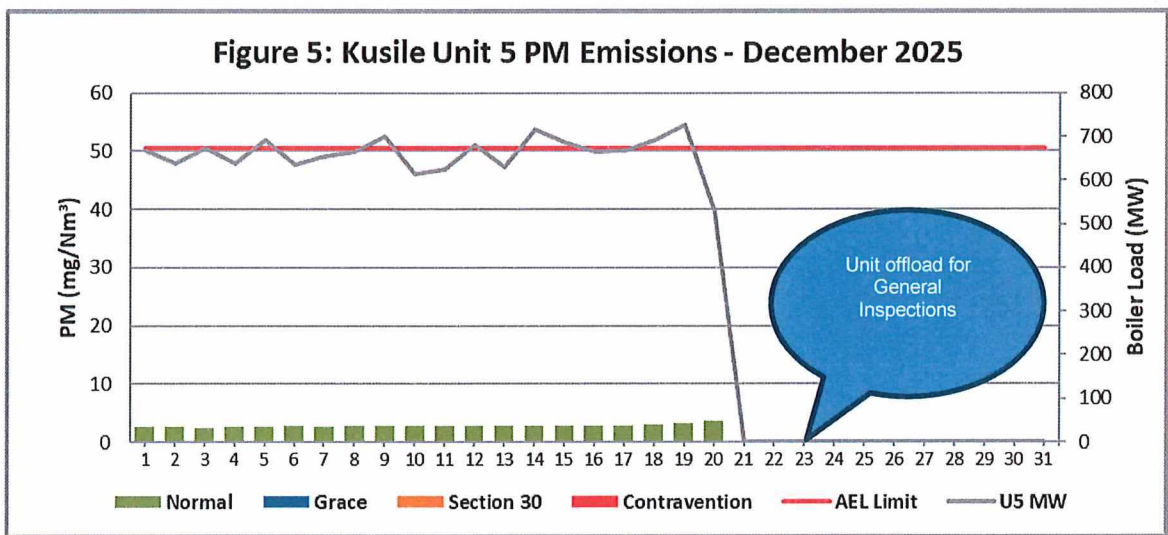
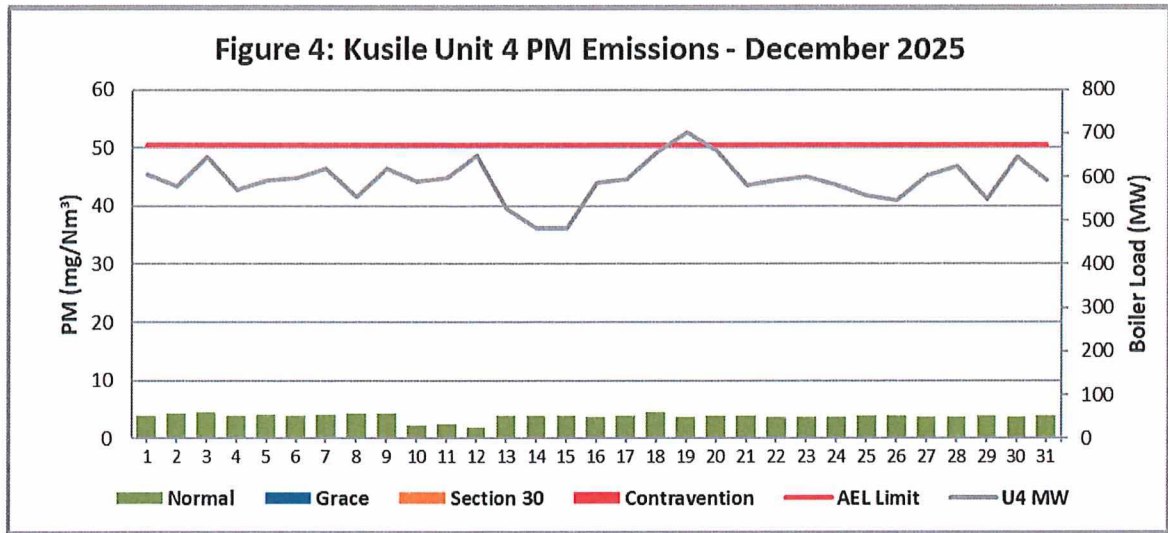
Table 7.4: NO_x AEL Daily Compliance - December 2025

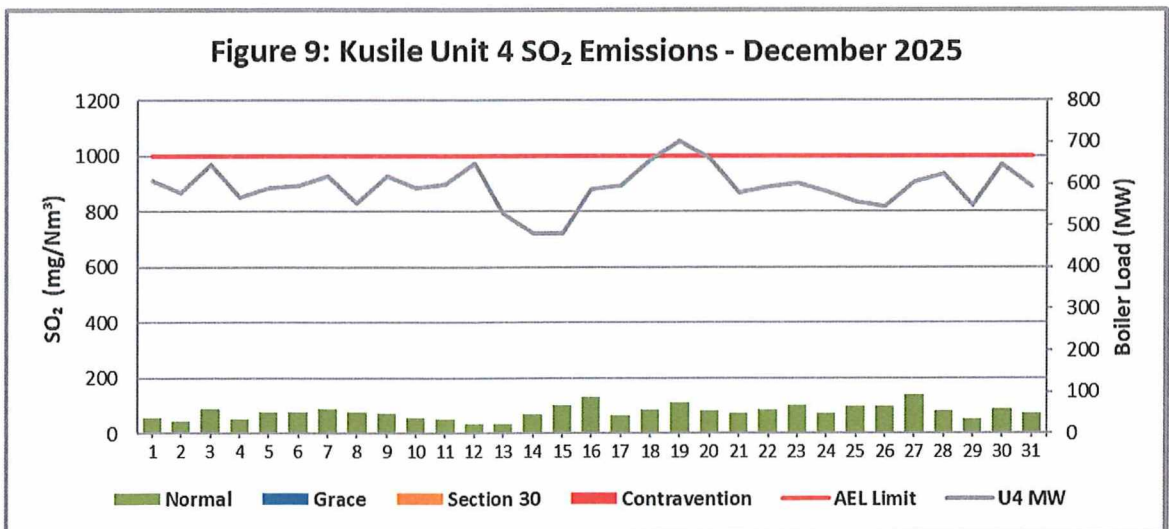
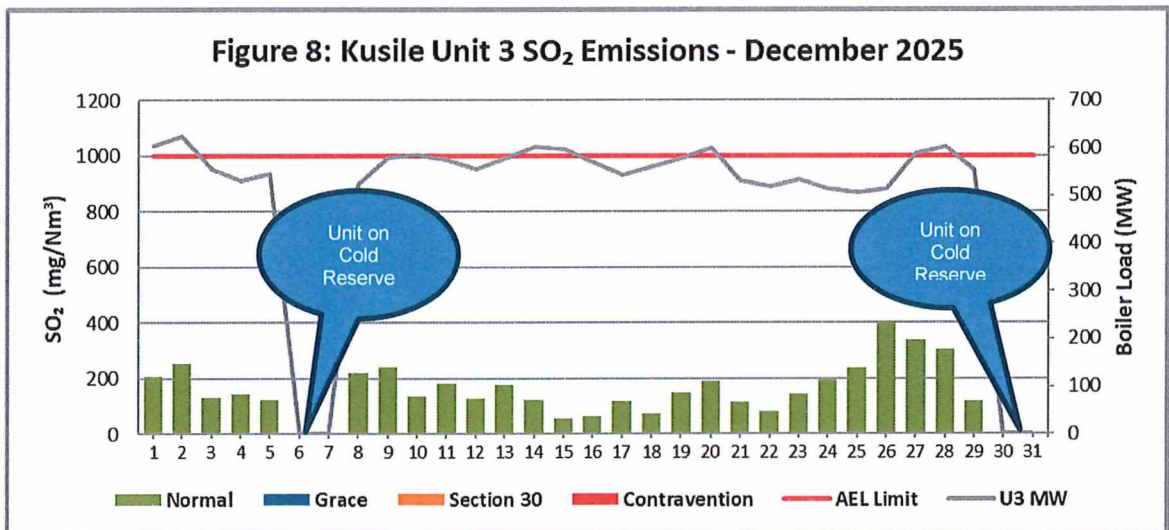
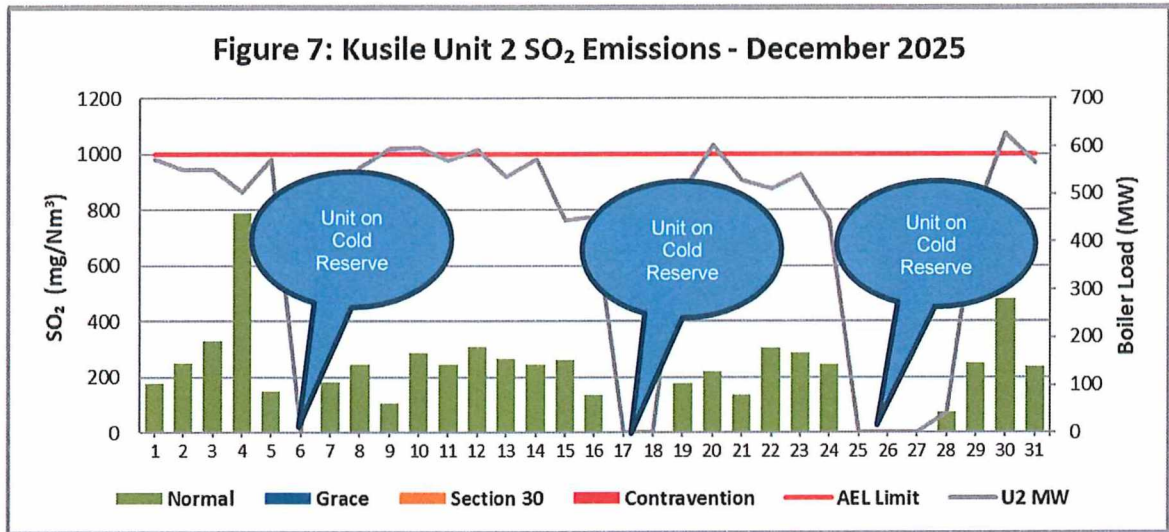
Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Mnth Avg (mg/Nm ³)
Unit 1	31	0	0	0	0	316.7
Unit 2	25	0	0	0	0	182.1
Unit 3	27	0	0	0	0	182.0
Unit 4	31	0	0	0	0	305.1
Unit 5	20	0	0	0	0	445.6
SUM	134	0	0	0	0	

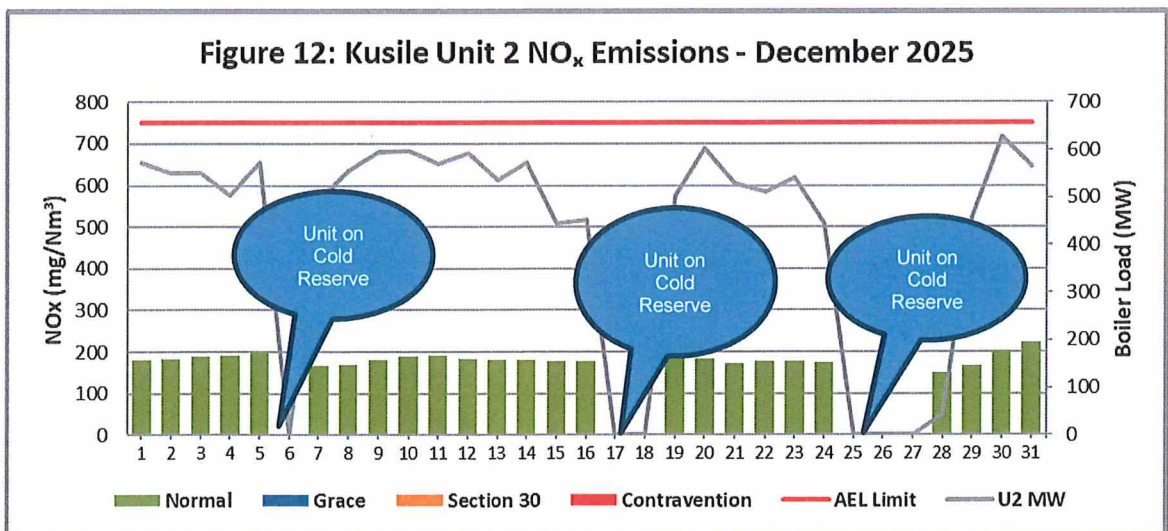
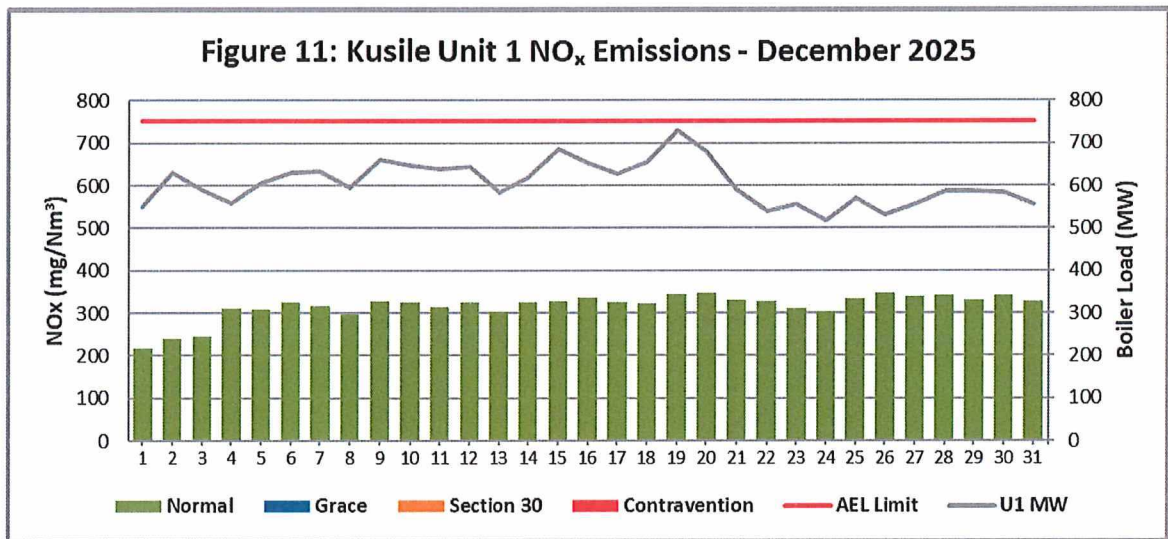
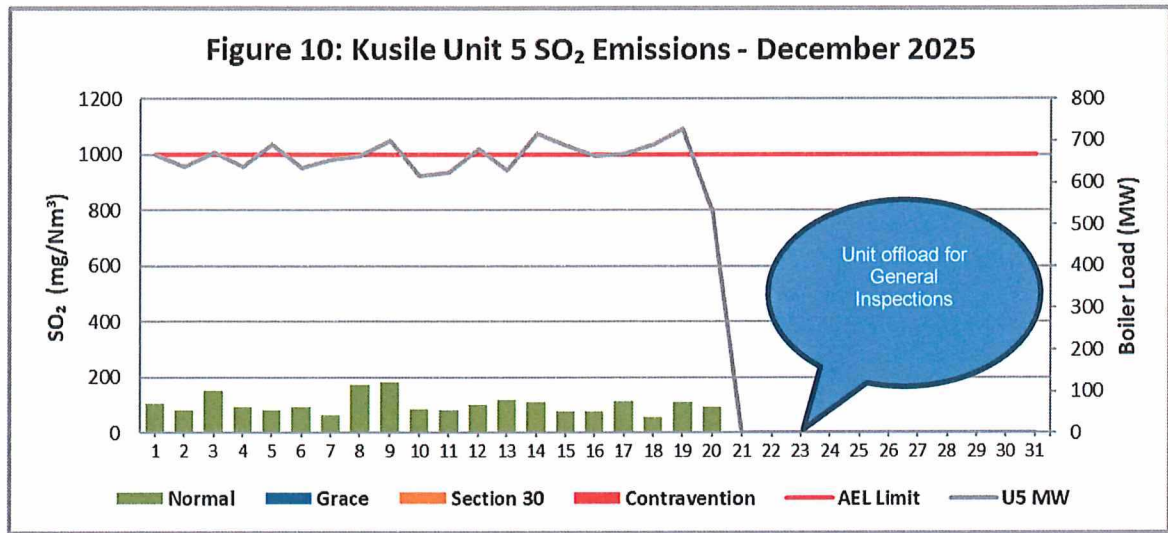
Table 7.5: Legend Description

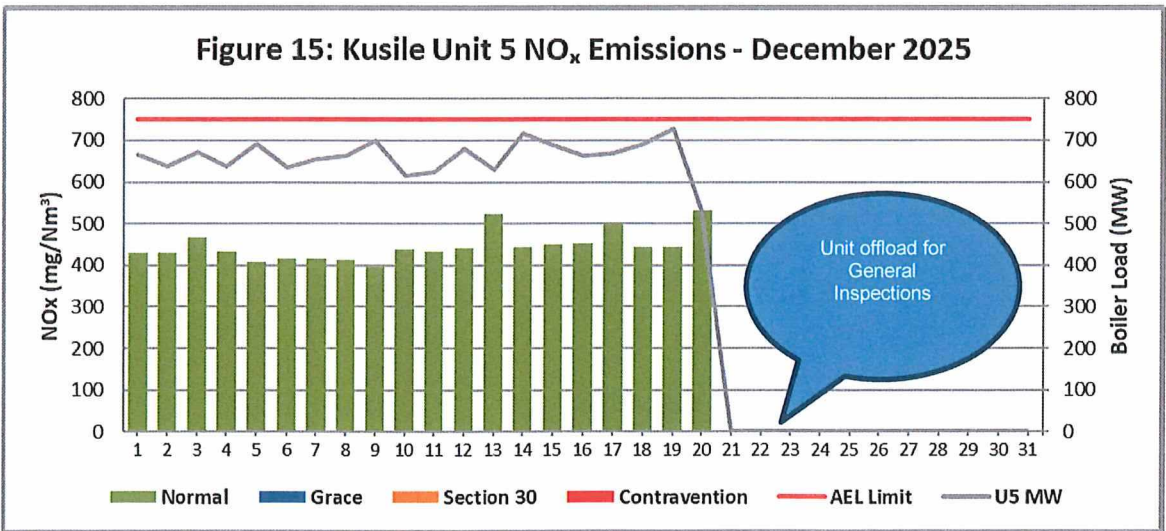
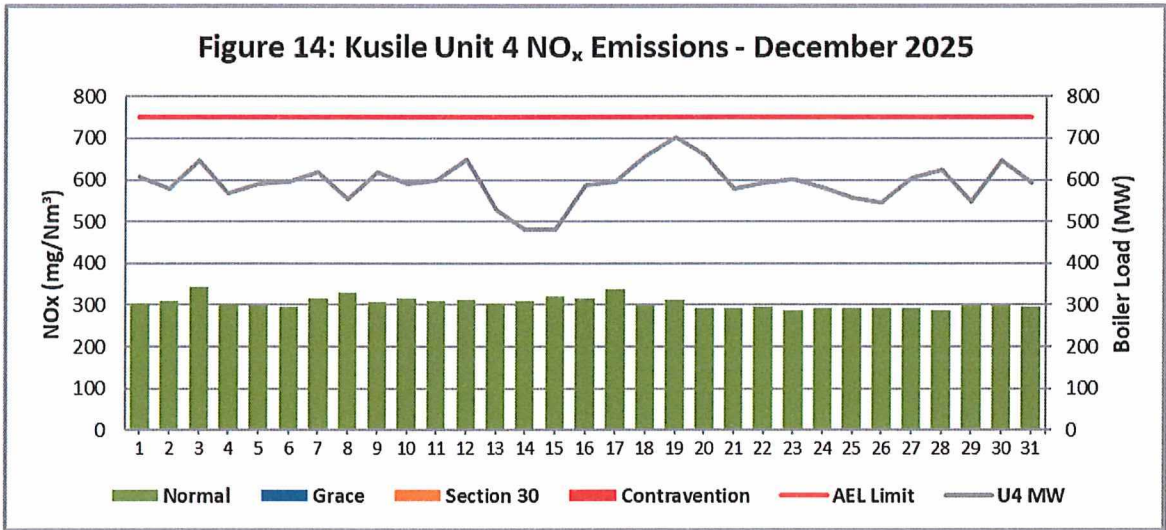
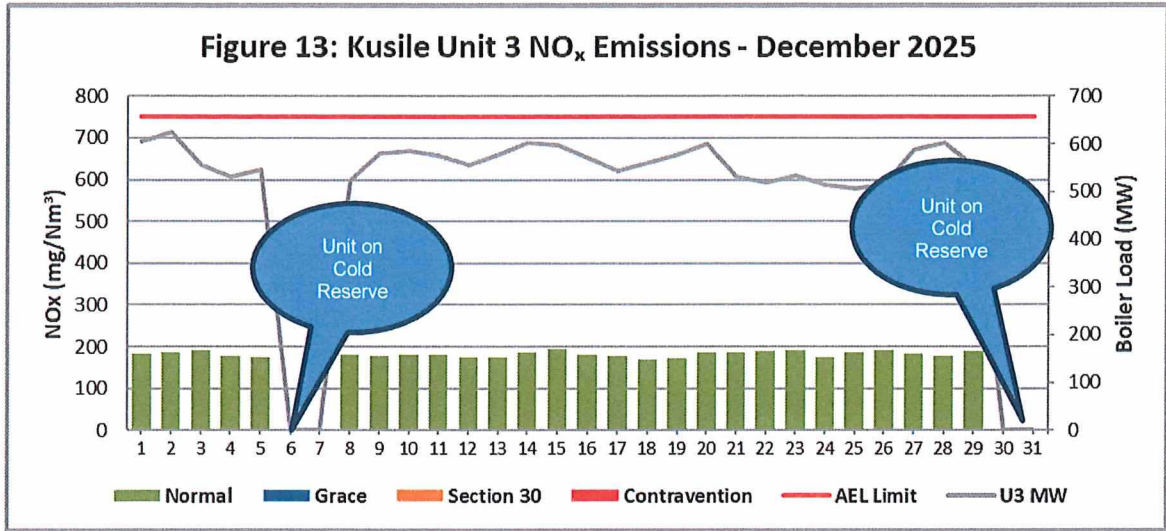
Condition	Colour	Description
Normal		Emissions below Emission Limit Value (ELV)
Grace		Emissions above the ELV during grace period
Section 30		Emissions above ELV during a NEMA S30 incident
Contravention		Emissions above ELV but outside grace or S30 incident conditions











8. Correlation and Parallel test status

Unit 1:

- Unit 1 is operating with valid correlation curves and parallel factors.

Unit 2:

- Unit 2 is operating with valid correlation curves and parallel factors.

Unit 3

- Unit 3 is operating with valid correlation curves and parallel factors.

Unit 4:

- Unit 4 is operating with valid correlation curves and parallel factors.

Unit 5

- Unit 5 is operating with valid correlation curves and parallel factors.

9. Shut down and Light up information

Event Description	Event 1		
Unit 1	Breaker Open (BO)	9:55 pm	2025/11/29
	Draught Group (DG) Shut Down (SD)	DG did not trip or SD	DG did not trip or SD
	BO to DG SD (duration)	n/a	DD:HH:MM
	Fires in time		
	Synch. to Grid (or BC)	8:55 am	2025/12/01
	Fires in to BC (duration)		DD:HH:MM
	Emissions below limit from BC (end date)		
	Emissions below limit from BC (duration)		DD:HH:MM

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Event Description	Event 1		Event 2		Event 3		Event 4		
Unit 2	Breaker Open (BO)	3:50 pm 2025/12/05	4:40 am 2025/12/15	8:20 am 2025/12/16	7:40 pm 2025/12/24				
	Draught Group (DG) Shut Down (SD)	DG did not trip or SD DG did not trip or SD	DG did not trip or SD DG did not trip or SD	DG did not trip or SD DG did not trip or SD	DG did not trip or SD DG did not trip or SD	DG did not trip or SD DG did not trip or SD	DG did not trip or SD DG did not trip or SD	DG did not trip or SD DG did not trip or SD	
	BO to DG SD (duration)	n/a DD:HH:MM	n/a DD:HH:MM	n/a DD:HH:MM	n/a DD:HH:MM	n/a DD:HH:MM	n/a DD:HH:MM	n/a DD:HH:MM	
	Fires in time								
	Synch. to Grid (or BC)								
	Fires in to BC (duration)		DD:HH:MM		DD:HH:MM		DD:HH:MM		DD:HH:MM
	Emissions below limit from BC (end date)								
	Emissions below limit from BC (duration)		DD:HH:MM		DD:HH:MM		DD:HH:MM		DD:HH:MM

Event Description	Event 1		Event 2	
Unit 3	Breaker Open (BO)	9:40 pm 2025/12/05	6:40 am 2025/12/29	
	Draught Group (DG) Shut Down (SD)	DG did not trip or SD DG did not trip or SD	DG did not trip or SD DG did not trip or SD	DG did not trip or SD DG did not trip or SD
	BO to DG SD (duration)	n/a DD:HH:MM	n/a DD:HH:MM	DD:HH:MM
	Fires in time			
	Synch. to Grid (or BC)			
	Fires in to BC (duration)		DD:HH:MM	DD:HH:MM
	Emissions below limit from BC (end date)			
	Emissions below limit from BC (duration)		DD:HH:MM	DD:HH:MM

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Event Description	Event 1		
Unit 4	Breaker Open (BO)	8:20 am	2025/12/06
	Draught Group (DG) Shut Down (SD)	DG did not trip or SD	DG did not trip or SD
	BO to DG SD (duration)	n/a	DD:HH:MM
	Fires in time		
	Synch. to Grid (or BC)		
	Fires in to BC (duration)		DD:HH:MM
	Emissions below limit from BC (end date)		
	Emissions below limit from BC (duration)		DD:HH:MM

Event Description	Event 1		
Unit 5	Breaker Open (BO)	3:25 am	2025/12/20
	Draught Group (DG) Shut Down (SD)	DG did not trip or SD	DG did not trip or SD
	BO to DG SD (duration)	n/a	DD:HH:MM
	Fires in time		
	Synch. to Grid (or BC)		
	Fires in to BC (duration)		DD:HH:MM
	Emissions below limit from BC (end date)		
	Emissions below limit from BC (duration)		DD:HH:MM

10.Complaints

There were no complaints for the month of December 2025

Source Code / Name	Root Cause Analysis	Calculation of Impacts / emissions associated with the incident	Dispersion modeling of pollutants where applicable	Measures implemented to prevent reoccurrence
No complaints reported for the month of December 2025.				