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29 August 2025

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LRP01PLA000_0475/2025/08/14

Dear Mr. Mkhathshwa

LETHABO POWER STATION EMISSION MONTHLY REPORT FOR JULY 2025

Please find attached Lethabo Power Station emission report for the month of July 2025.

Also attached are the Ambient Air Quality Monitoring Report, Complaints Register and the Fugitive Dust Fallout Monitoring Report for July 2025.

For any additional information please do not hesitate to contact us.

Yours sincerely

Karabo Rakgolela
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Eskom Holdings SOC Ltd Reg No 2002/015527/30



Report

Lethabo Power Station

Report name: **Lethabo Power Station
JULY 2025
Emission Report**

Reference number: **LRP01PLA000 _0475/2025/08/14**
Document Type: **Report**
Area of Applicability: **Environment**
Report Date: **August-2025**
Classification: **Controlled Disclosure**

Signatures:

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LETHABO POWER STATION MONTHLY EMISSIONS REPORT

Atmospheric Emission License: FDDM-MET-2011-08-P1



1 RAW MATERIALS AND PRODUCTS

Raw Materials and Products	Raw Material Type	Units	Max Permitted Consumption Rate	Consumption Rate Jul-2025
	Coal	Tons	2 000 000	1 069 224
	Fuel Oil	Tons	1 700	1583.840
Production Rates	Product / By-Product Name	Units	Max Production Capacity Permitted	Indicative Production Rate Jul-2025
	Energy	GWh	2 834.640	1 490.994
	Ash	Tons	770 000	400 317.544
	RE Ash	kg/MWh	not specified	0.681

Note: Max energy rate = AEL capacity [3,810 MW] × 24 Hrs × Days in MONTH ÷ 1,000 (to convert to GWh).

2 ENERGY SOURCE CHARACTERISTICS

Coal Characteristic	Units	Stipulated Range	Monthly Average Content
Sulphur Content	%	0.6 TO >2.6	0.700
Ash Content	%	21 TO >33	37.440

Note: The "standard" is not a fixed limit but an optimal guideline. It may vary with coal quality. The stipulated range reflects station acceptance test values.

3 EMISSION LIMITS (mg/Nm³)

Associated Unit/Stack	Daily Limit		
	PM	SO ₂	NO _x
Unit 1	100	2600	1100
Unit 2	100	2600	1100
Unit 3	100	2600	1100
Unit 4	100	2600	1100
Unit 5	100	2600	1100
Unit 6	50	2600	1100

4 ABATEMENT TECHNOLOGY (%)

Associated Unit/Stack	Technology Type	ESP Efficiency	Technology Type	SO ₃ Plant Utilization
Unit 1	ESP + SO ₃	99.804%	SO ₃	99.9%
Unit 2	ESP + SO ₃	Off-line	SO ₃	Off-line
Unit 3	ESP + SO ₃	99.823%	SO ₃	99.1%
Unit 4	ESP + SO ₃	99.693%	SO ₃	100.0%
Unit 5	ESP + SO ₃	99.501%	SO ₃	98.8%
Unit 6	ESP + SO ₃	99.967%	SO ₃	66.7%

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

5 DATA RELIABILITY (%)

Associated Unit/Stack	PM	SO ₂	NO	O ₂
Unit 1	99.5		99.7	99.7
Unit 2	Off	Off	Off	Off
Unit 3	100.0	99.7	99.7	99.7
Unit 4	99.4	99.9	99.9	99.7
Unit 5	98.4	99.9	99.9	99.6
Unit 6	66.7	100.0	100.0	100.0

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

6 EMISSION PERFORMANCE

Table 6.1: Monthly tonnages for July 2025

Associated Unit/Stack	PM (tons)	SO ₂ (tons)	NO _x (tons)
Unit 1	187.3	3 601	1 810
Unit 2	Off	Off	Off
Unit 3	158.6	4 772	2 006
Unit 4	268.7	4 308	1 981
Unit 5	398.3	4 559	1 453
Unit 6	2.6	432	170
SUM	1 015.59	17 672	7 420

Table 6.2: PM AEL Daily Compliance - July 2025

Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Mnth Avg (mg/Nm³)
Unit 1	27	4	0	0	4	95.6
Unit 2	Off	Off	Off	Off	Off	Off
Unit 3	30	1	0	0	1	65.2
Unit 4	19	11	0	1	12	145.6
Unit 5	24	7	0	0	7	180.6
Unit 6	2	1	0	0	1	163.2
SUM	102	24	0	1	25	

Table 6.3: SO₂ AEL Daily Compliance - July 2025

Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Mnth Avg (mg/Nm³)
Unit 1	31	0	0	0	0	1 784.5
Unit 2	Off	Off	Off	Off	Off	Off
Unit 3	31	0	0	0	0	1 913.6
Unit 4	31	0	0	0	0	1 963.9
Unit 5	31	0	0	0	0	2 069.1
Unit 6	5	0	0	0	0	2 024.5
SUM	129	0	0	0	0	

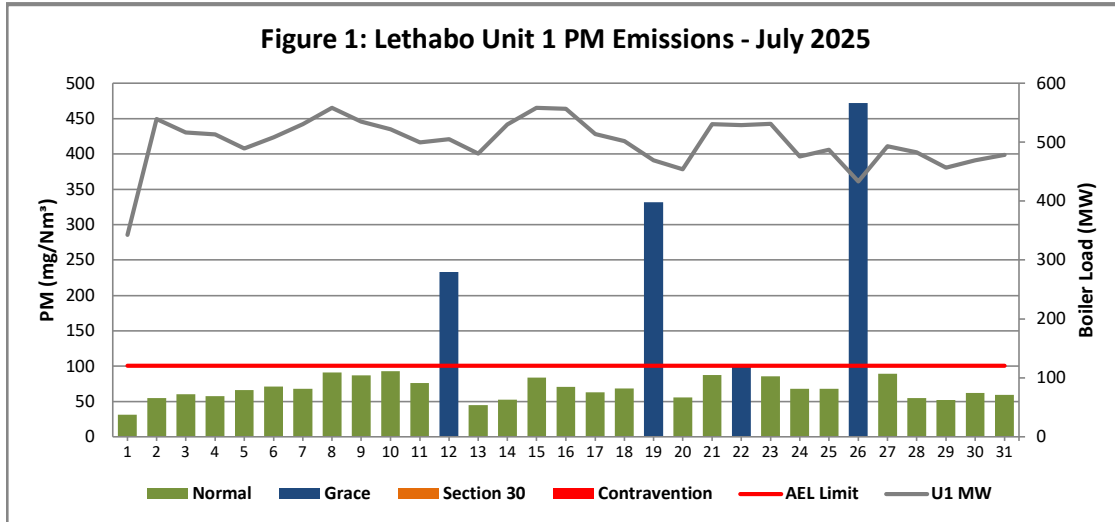
Table 6.4: NO_x AEL Daily Compliance - July 2025

Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Mnth Avg (mg/Nm³)
Unit 1	31	0	0	0	0	893.7
Unit 2	Off	Off	Off	Off	Off	Off
Unit 3	31	0	0	0	0	799.7
Unit 4	31	0	0	0	0	895.0
Unit 5	31	0	0	0	0	662.2
Unit 6	5	0	0	0	0	768.9
SUM	129	0	0	0	0	

Note: Daily limit compliance is shown in the bar charts; monthly compliance is summarized in the table above.

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
Contravention	RED	Emissions above ELV but outside grace or S30 incident conditions



Reasons:	
Date	Description
12-Jul	ESP poor casing performance. LHO casing outage.
19-Jul	Poor ESP casing performance.
22-Jul	Poor ESP casing performance. High hopper levels.
26-Jul	Poor ESP casing performance. LHI casing outage.

Figure 2: Lethabo Unit 2 PM Emissions - July 2025

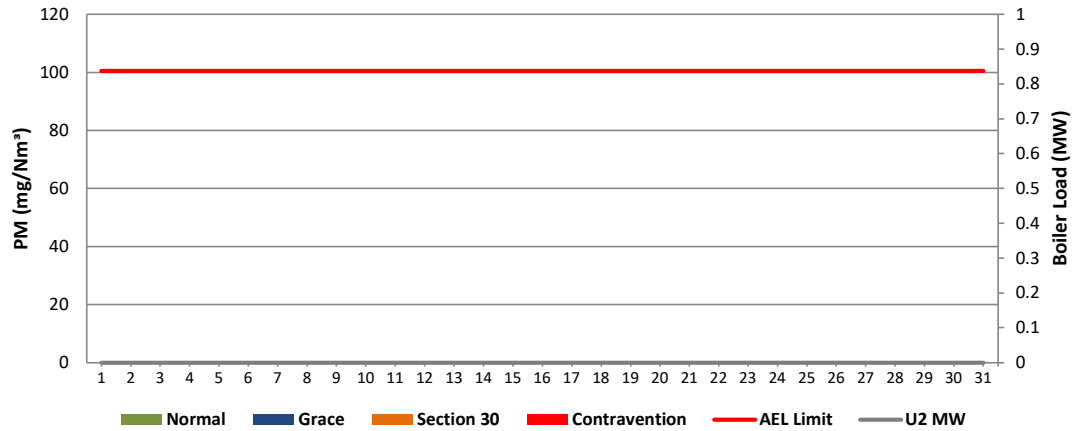
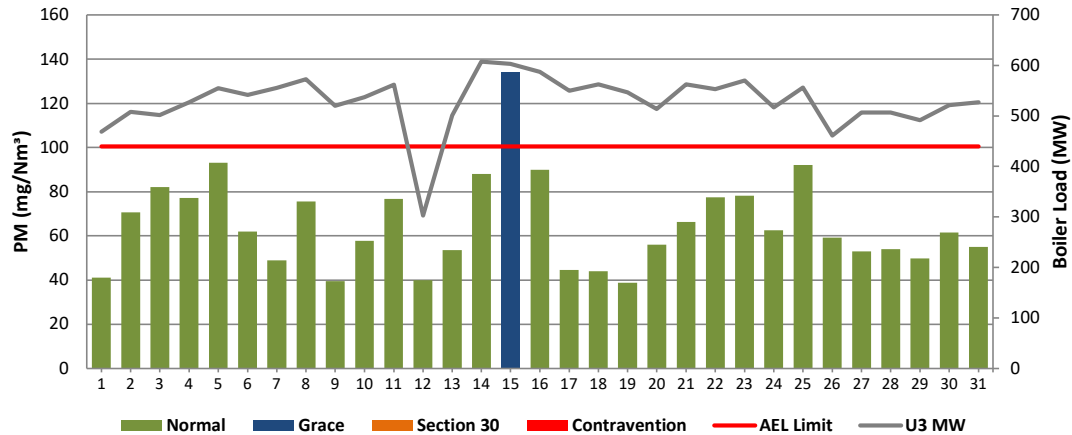
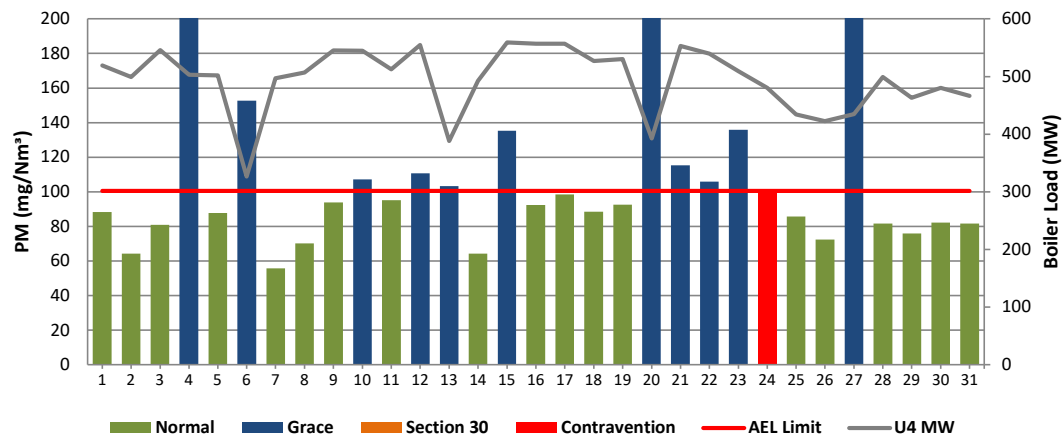


Figure 3: Lethabo Unit 3 PM Emissions - July 2025



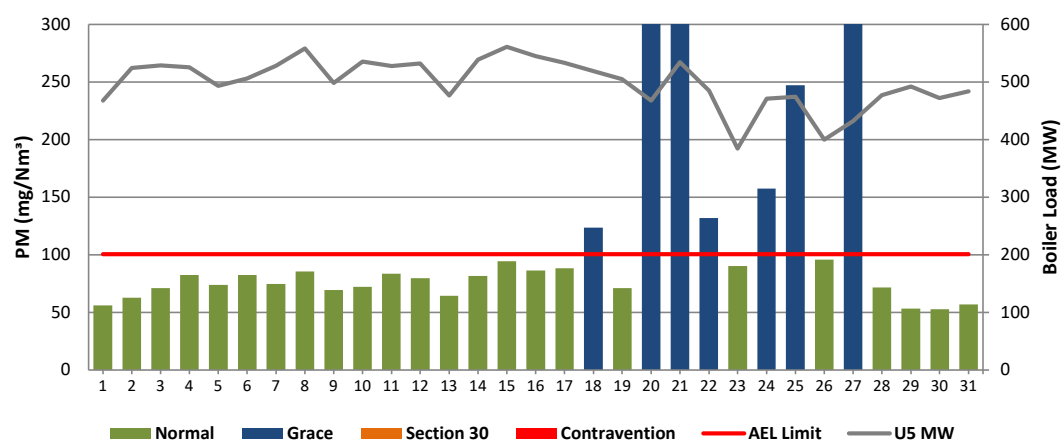
Reasons:	
Date	Description
15-Jul	Unit 3 correlation test (F1,2,3 - Off) in all casings.

Figure 4: Lethabo Unit 4 PM Emissions - July 2025



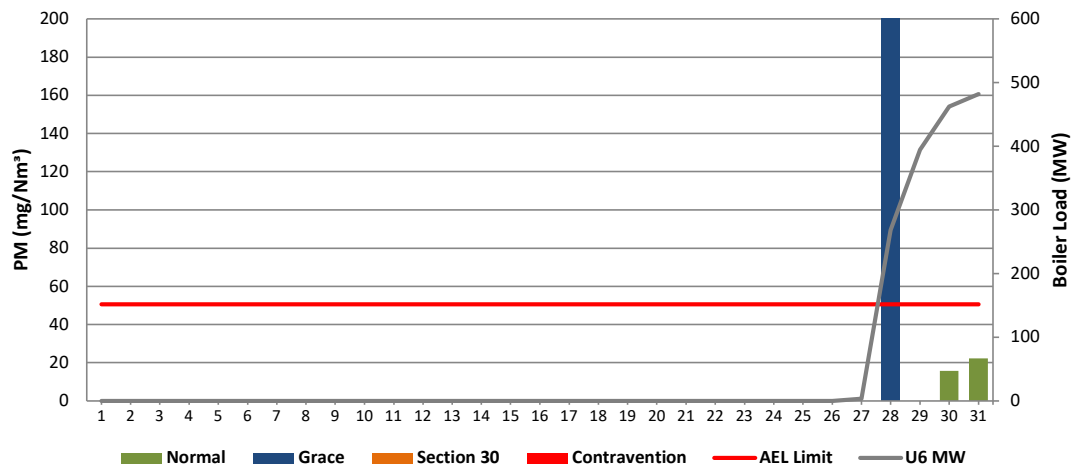
Reasons:	
Date	Description
04-Jul	ESP Casing poor performance. RHO ESP casing outage.
06-Jul	Poor ESP casing performance. Sulphur flow lost. ESP casing fields switched off due to turbine trip and oil burners in-service.
10-Jul	Poor ESP casing performance. High hopper levels.
12-Jul	Poor ESP casing performance.
13-Jul	Unit 4 tripped with boiler on still on by-pass High hopper levels. Poor ESP casing performance.
15-Jul	Poor ESP casing performance. Manual rapping done.
20-Jul	Unit 4 tripped. Poor ESP Casing performance. RHI casing outage. Unit Startup
21-Jul	Unit 4 lightup conditions.
22-Jul	Unit 4 lightup conditions.
23-Jul	Poor ESP casing performance.
24-Jul	Poor ESP casing performance.
27-Jul	Poor ESP casing performance. LHI casing outage.

Figure 5: Lethabo Unit 5 PM Emissions - July 2025



Reasons:	
Date	Description
18-Jul	Poor ESP casing performance.
20-Jul	Poor ESP casing performance.
21-Jul	Poor ESP casing performance.
22-Jul	Poor ESP casing performance.
24-Jul	Poor ESP casing performance.
25-Jul	ESP casing performance. LHO ESP casing outage.
27-Jul	Poor ESP casing performance. RHI ESP casing performance.

Figure 6: Lethabo Unit 6 PM Emissions - July 2025



Reasons:	
Date	Description
28-Jul	The unit synchronised on load on 2025/07/27 @ 23:26 the emissions needs to be below the limit on 2025/07/30@ 23:26 and remain below the limit until 2025/07/31 @ 23:59 Low load conditions < 230MW and SO3 plant not available due to low low . Unit 6 also tripped on this day @ 23H41 .

Figure 7: Lethabo Unit 1 SO₂ Emissions - July 2025

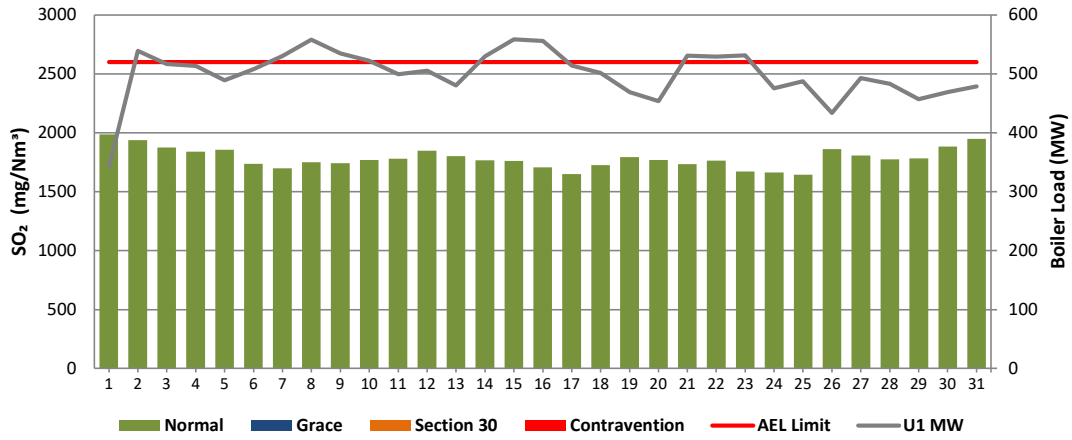


Figure 8: Lethabo Unit 2 SO₂ Emissions - July 2025

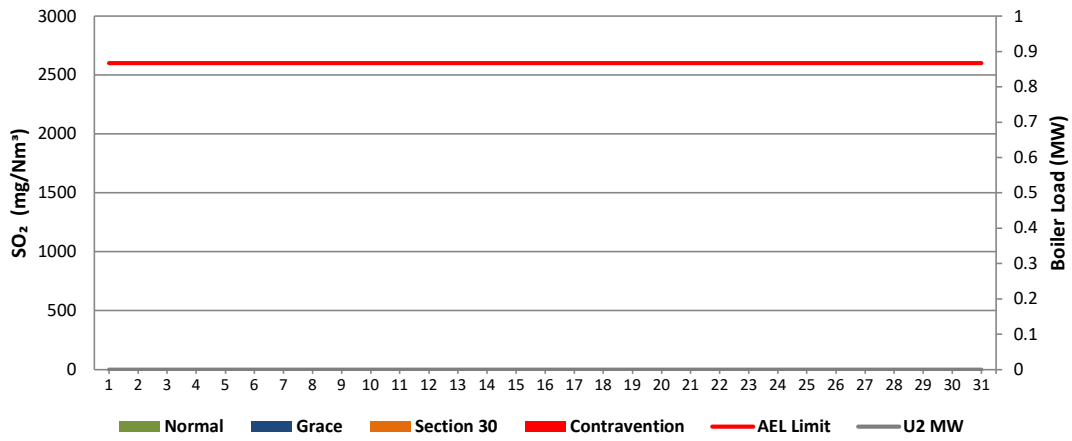


Figure 9: Lethabo Unit 3 SO₂ Emissions - July 2025

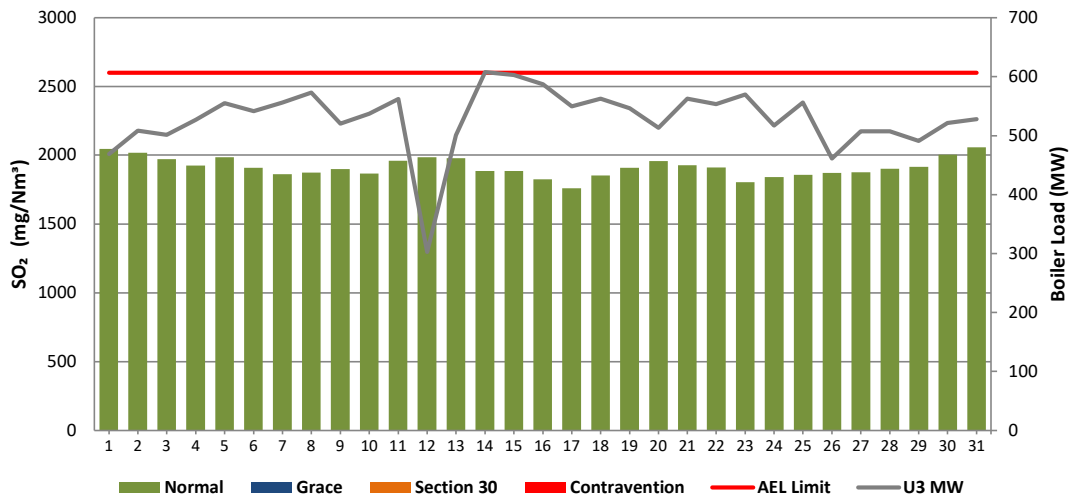


Figure 10: Lethabo Unit 4 SO₂ Emissions - July 2025

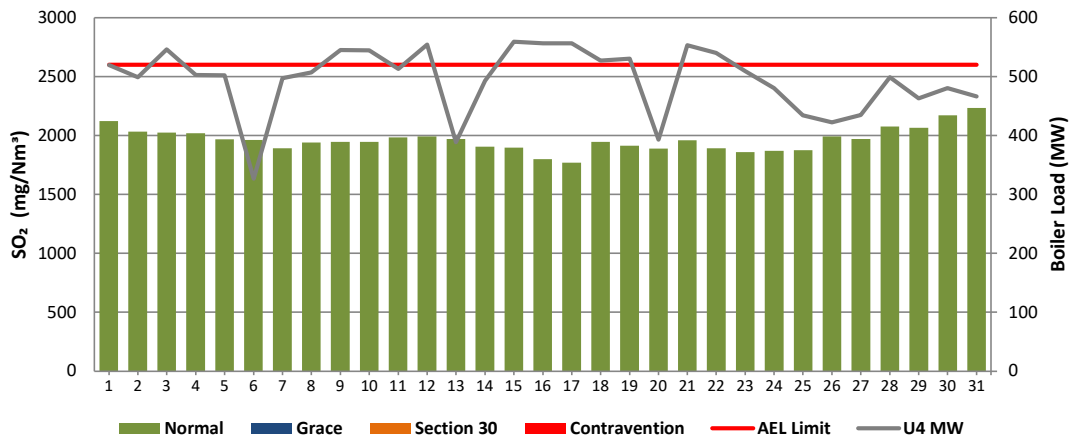


Figure 11: Lethabo Unit 5 SO₂ Emissions - July 2025

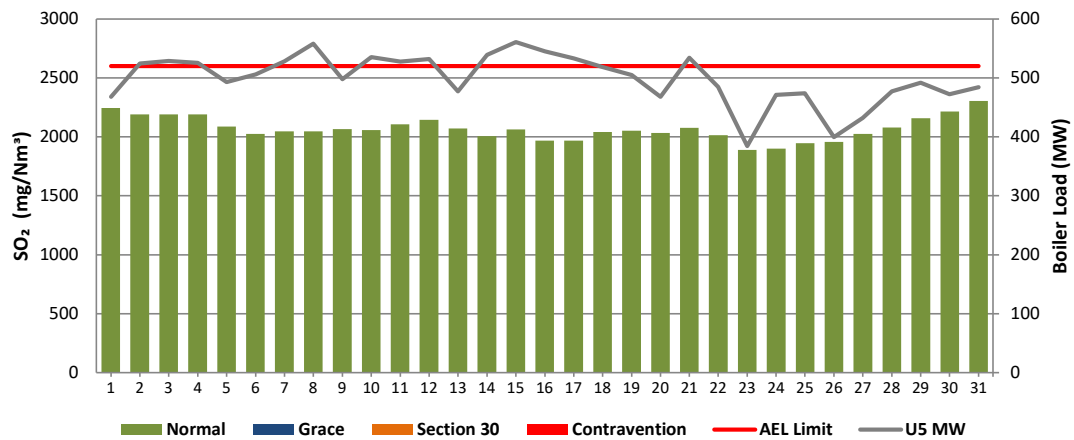


Figure 12: Lethabo Unit 6 SO₂ Emissions - July 2025

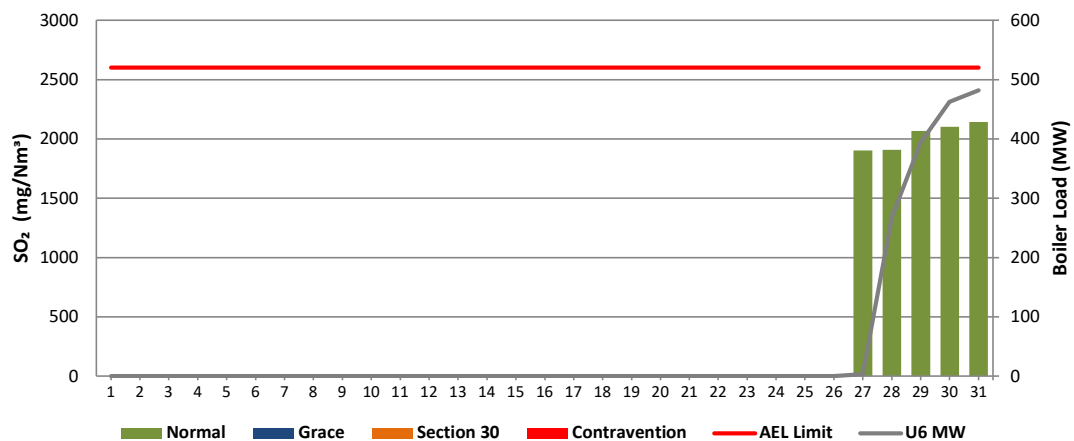


Figure 13: Lethabo Unit 1 NO_x Emissions - July 2025

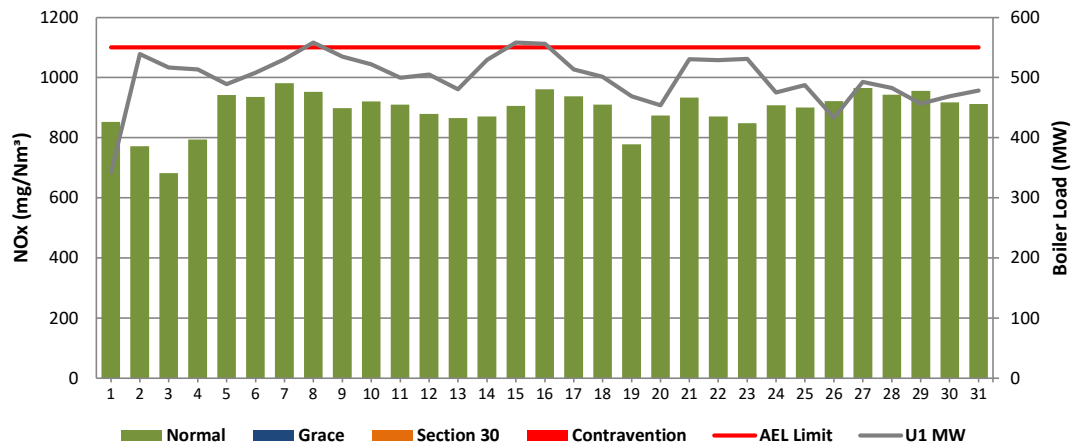


Figure 14: Lethabo Unit 2 NO_x Emissions - July 2025

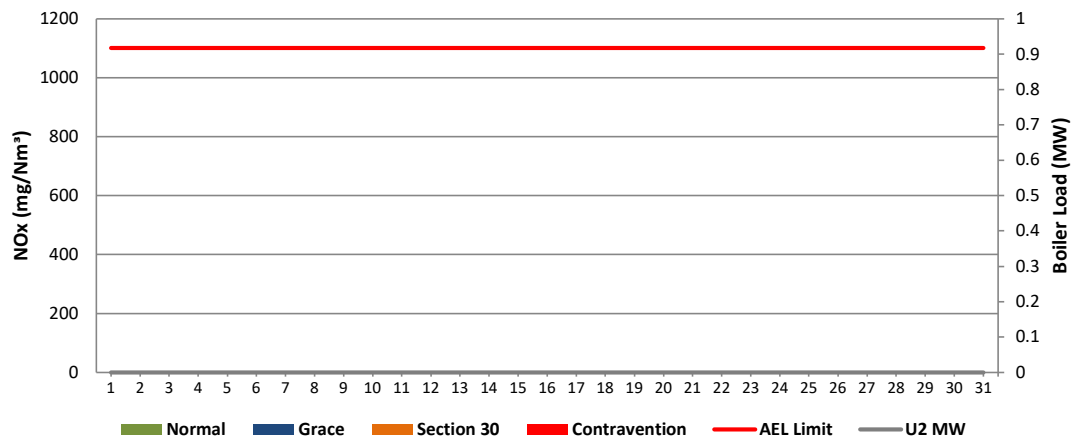


Figure 15: Lethabo Unit 3 NO_x Emissions - July 2025

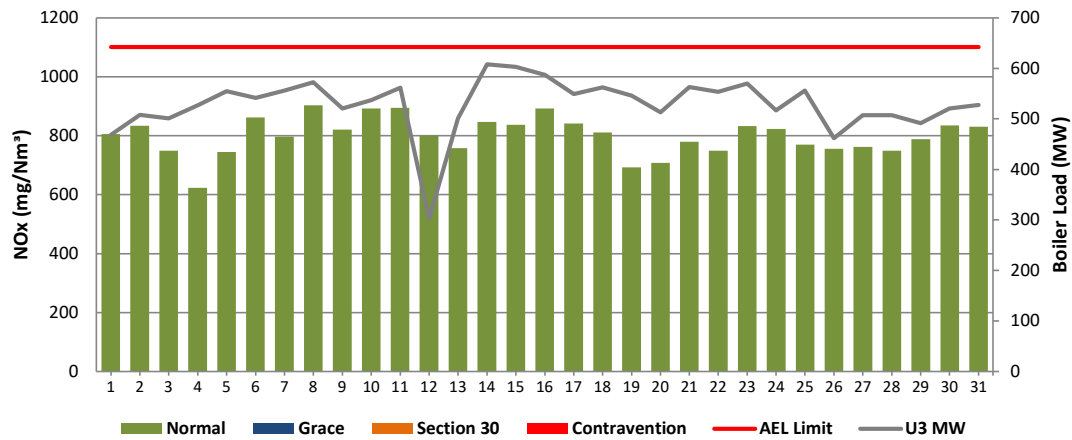


Figure 16: Lethabo Unit 4 NO_x Emissions - July 2025

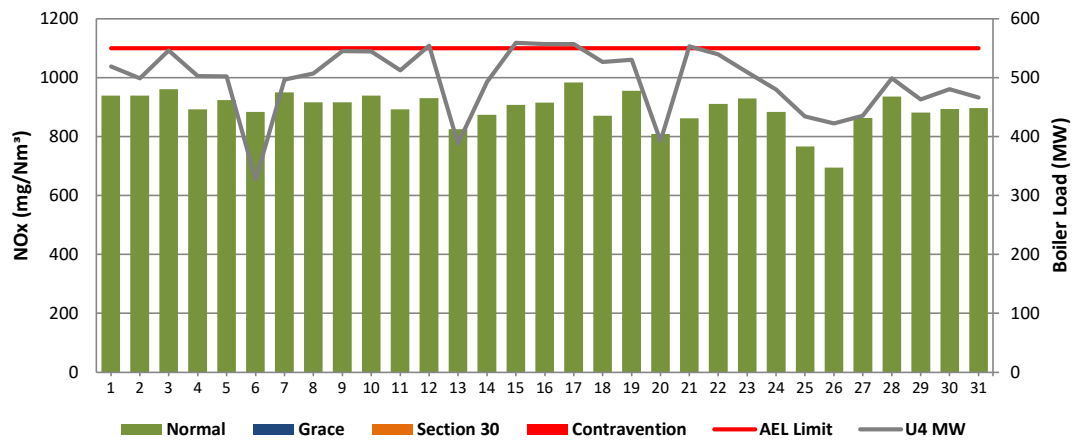


Figure 17: Lethabo Unit 5 NO_x Emissions - July 2025

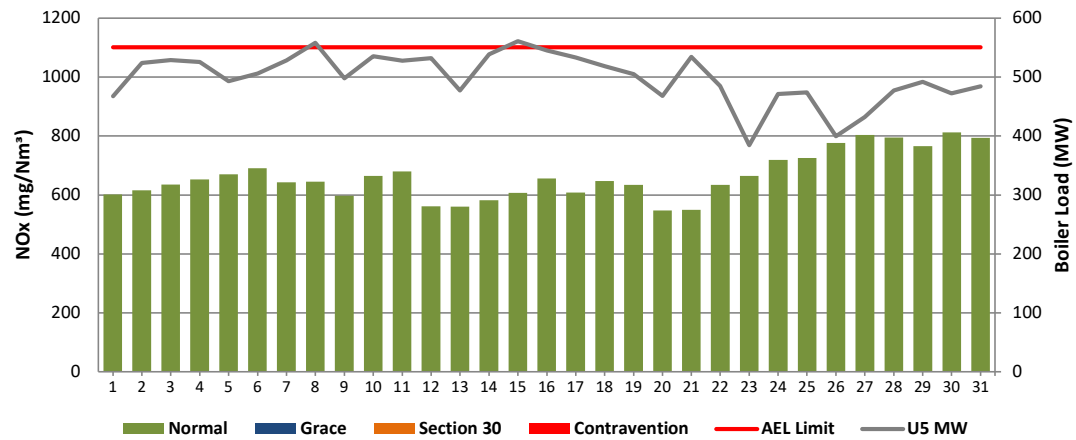
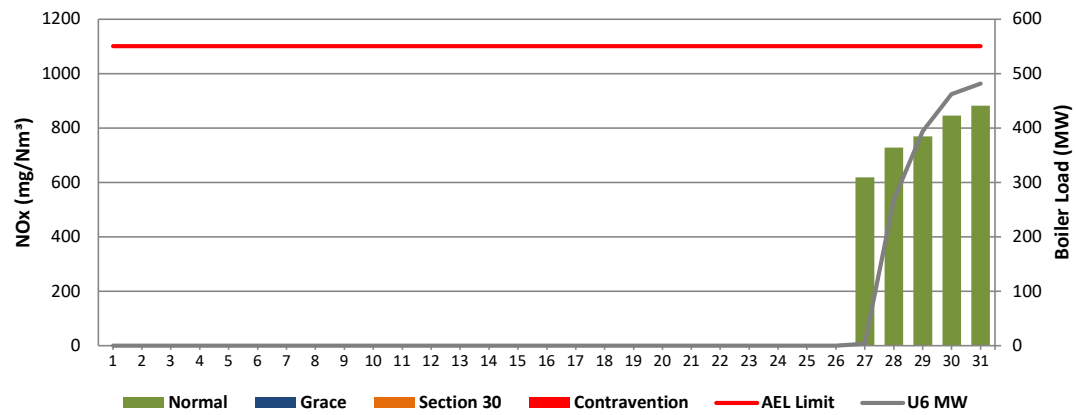


Figure 18: Lethabo Unit 6 NO_x Emissions - July 2025



7 SHUT-DOWN AND LIGHT-UP INFORMATION FOR JULY 2025

See Events sheet

8. MAINTENANCE

Unit 1				
Beginning of Maintenance	2025/07/12 00:00	2025/07/19 00:00	2025/07/20 00:00	2025/07/26 00:00
Reason for Maintenance	LHO casing repairs	RHO Casing repairs	RHO Casing repairs	LHI Casing repairs
End (Time):	2025/07/12 16:36	2025/07/20 00:20	2025/07/20 01:03	2025/07/26 19:19
Duration	16:36:00	24:20:00	1:03:00	19:19:00

Unit 2				
Beginning of Maintenance				
Reason for Maintenance				
End (Time):				
Duration				

Unit 3				
Beginning of Maintenance				
Reason for Maintenance				
End (Time):				
Duration				

Unit 4	2025/07/20 00:00:00	2025/07/27 00:00:00		
Beginning of Maintenance	RHI Casing repairs	LHI Casing repairs		
Reason for Maintenance	2025/07/20 14:13:00	2025/07/27 21:00:00		
End (Time):	14:13:00	21:00:00		
Duration				

Unit 5				
Beginning of Maintenance	2025/07/25 03:36	2025/07/27 00:00		
Reason for Maintenance	LHO casing repairs	RHI Casing repairs		
End (Time):	2025/07/26 03:35	2025/07/27 23:25		
Duration	23:59:00	23:25:00		

Unit 6				
Beginning of Maintenance				
Reason for Maintenance				
End (Time):				
Duration				

9 COMPLAINTS

There were no complaints for this months

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

10 GENERAL

Unit 5 Monitor Reliability

21/07/2025: PM monitor Reliability low due to monitor max out.

Unit 4:

On the 20/07/2025 - 24/07/2025, unit 4 registered a non-compliance as the unit exceeded for greater than 72 hrs light up conditions due to daily emissions report not properly synchronised to the latest ERT report (LTB0725ERT) and ESP system not reliably in reducing emissions. However, the root cause is to be determined once the investigation is done.

CO2 and Velocity Monitors Low Reliability Units 1-6:

Due to correction of bad data as per internal emission data integrity review actions in 2021 and 2022. Bad Velocity data and Bad CO2 data were corrected/removed as per the review actions and findings.

Unit 6 PM Monitor Reliability

PM monitor Reliability low due to monitor maxim out .

Unit 6 SO3 Plant utilisation

SO3 plant Utilisatio low due to unit running at low load .

ADDENDUM TO MONTHLY EMISSIONS REPORT

10. S30 INCIDENT OR LEGAL CONTRAVENTION REGISTER

To be completed in the case of a S30 incident or a legal contravention:

Unit no	Incident Start Date	Incident End Date	Incident Cause	Remedial action	S30 initial notification sent	Date S30 investigation report sent	Date DEA Acknowledgment	Date DEA Acceptable	Comments / Reference No.
4	20 July 2025	24 July 2025	Poor Casing Performance and non Synchronisation of tools (daily Spreadsheet and ERT)	Emission Reporting Tool will be run every 48 hours after light up condition	28 July 2025	Under Investigation			Legal contravention has been reported and under investigation

11. PARTICULATE EMISSIONS

EMISSION RATE (ACTUAL EMISSION/MWh GENERATED - kg/MWh)

MONTH	UNIT 1	UNIT 2	UNIT 3	UNIT 4	UNIT 5	UNIT 6	STATION
Jul-24	0.43	2.04	0.55	0.75	0.68	1.28	0.87
Aug-24	0.48	0.91	0.69	0.47	0.53	0.18	0.54
Sept-24	0.61	0.70	0.69	0.67	0.76	0.24	0.60
Oct-24	0.34	0.62	OFF	0.61	0.78	0.33	0.57
Nov-24	0.42	0.50	OFF	0.90	0.75	0.26	0.56
Dec-24	0.56	0.57	OFF	0.88	0.63	0.24	0.54
Jan-25	1.08	0.51	OFF	0.82	1.47	0.71	0.90
Feb-25	1.50	0.56	7.43	0.49	1.94	0.50	1.47
Mar-25	1.38	0.67	1.83	0.58	2.33	0.46	1.25
Apr-25	16.13	OFF	1.50	6.27	2.31	0.40	5.12
May-25	16.16	OFF	1.28	0.81	0.57	0.25	3.33
Jun-25	0.60	OFF	0.45	0.49	0.52	0.25	0.47
Jul-25	0.50	OFF	0.40	0.73	1.07	0.07	0.66

ADDENDUM TO MONTHLY EMISSIONS REPORT

12. DAILY EMISSIONS FIGURES

Final Dust Concentration (mg/Nm³)

Date	U1	U2	U3	U4	U5	U6	Limit (U1-U5)	Limit (U6)
01-Jul	31		41	88	56		100	50
02-Jul	55		71	64	63		100	50
03-Jul	60		82	81	71		100	50
04-Jul	58		77	446	83		100	50
05-Jul	66		93	88	74		100	50
06-Jul	71		62	153	82		100	50
07-Jul	68		49	56	75		100	50
08-Jul	91		76	70	85		100	50
09-Jul	87		40	94	69		100	50
10-Jul	93		58	107	72		100	50
11-Jul	76		77	95	83		100	50
12-Jul	233		40	111	80		100	50
13-Jul	45		54	103	64		100	50
14-Jul	53		88	64	82		100	50
15-Jul	84		134	135	94		100	50
16-Jul	71		90	92	86		100	50
17-Jul	63		45	98	88		100	50
18-Jul	69		44	88	123		100	50
19-Jul	332		39	93	71		100	50
20-Jul	56		56	1053	685		100	50
21-Jul	88		66	115	1841		100	50
22-Jul	101		77	106	132		100	50
23-Jul	86		78	136	90		100	50
24-Jul	68		63	101	158		100	50
25-Jul	68		92	86	247		100	50
26-Jul	472		59	72	96		100	50
27-Jul	89		53	398	610		100	50
28-Jul	55		54	82	72	452	100	50
29-Jul	52		50	76	53		100	50
30-Jul	62		62	82	53	16	100	50
31-Jul	59		55	82	57	22	100	50

ADDENDUM TO MONTHLY EMISSIONS REPORT

Final SOx Concentration (mg/Nm³)

Date	U1	U2	U3	U4	U5	U6	Limit
01-Jul	1986		2045	2124	2244		2600
02-Jul	1937		2017	2035	2189		2600
03-Jul	1873		1971	2026	2190		2600
04-Jul	1840		1924	2018	2189		2600
05-Jul	1855		1986	1968	2086		2600
06-Jul	1738		1910	1961	2024		2600
07-Jul	1698		1862	1890	2046		2600
08-Jul	1751		1875	1941	2045		2600
09-Jul	1742		1899	1944	2066		2600
10-Jul	1770		1867	1946	2058		2600
11-Jul	1782		1959	1983	2106		2600
12-Jul	1848		1986	1993	2144		2600
13-Jul	1799		1979	1971	2069		2600
14-Jul	1765		1885	1906	2004		2600
15-Jul	1760		1886	1897	2063		2600
16-Jul	1706		1827	1799	1967		2600
17-Jul	1650		1759	1768	1967		2600
18-Jul	1726		1851	1946	2042		2600

19-Jul	1794		1908	1912	2051		2600
20-Jul	1769		1959	1889	2033		2600
21-Jul	1733		1928	1959	2077		2600
22-Jul	1764		1911	1892	2012		2600
23-Jul	1672		1804	1858	1890		2600
24-Jul	1664		1841	1868	1898		2600
25-Jul	1643		1857	1874	1945		2600
26-Jul	1862		1872	1993	1956		2600
27-Jul	1806		1876	1972	2023	1901	2600
28-Jul	1773		1902	2075	2079	1908	2600
29-Jul	1783		1916	2065	2157	2068	2600
30-Jul	1882		2005	2171	2214	2102	2600
31-Jul	1947		2057	2235	2304	2144	2600

ADDENDUM TO MONTHLY EMISSIONS REPORT

Final NOx Concentration (mg/Nm³)							
Date	U1	U2	U3	U4	U5	U6	Limit
01-Jul	852		805	939	601		1100
02-Jul	771		834	939	615		1100
03-Jul	683		750	961	635		1100
04-Jul	795		623	892	653		1100
05-Jul	943		746	925	670		1100
06-Jul	936		862	883	691		1100
07-Jul	982		797	950	642		1100
08-Jul	953		903	916	645		1100
09-Jul	898		821	917	597		1100
10-Jul	921		893	939	664		1100
11-Jul	910		895	892	679		1100
12-Jul	879		800	930	561		1100
13-Jul	865		758	825	561		1100
14-Jul	871		847	874	582		1100
15-Jul	906		837	908	607		1100
16-Jul	961		892	916	656		1100
17-Jul	937		841	983	608		1100
18-Jul	910		811	871	646		1100
19-Jul	779		692	956	633		1100
20-Jul	873		708	808	547		1100
21-Jul	933		780	861	549		1100
22-Jul	871		749	911	634		1100
23-Jul	849		833	929	664		1100
24-Jul	908		822	884	719		1100
25-Jul	900		769	767	725		1100
26-Jul	922		756	695	776		1100
27-Jul	966		762	864	803	620	1100
28-Jul	943		750	936	794	728	1100
29-Jul	956		788	882	765	770	1100
30-Jul	918		835	894	812	846	1100
31-Jul	912		830	896	793	882	1100

ADDENDUM TO MONTHLY EMISSIONS REPORT

13. AVAILABILITY

ESP utilisation

Availability												
Month	Unit 1	Days Affected	Unit 2	Days Affected	Unit 3	Days Affected	Unit 4	Days Affected	Unit 5	Days Affected	Unit 6	Days Affected
Jul-24	100.00%	0.0	100.00%	0.0	100.00%	0.0	100.00%	0.0	100.00%	0.0	100.00%	0.00%
Aug-24	98.59%	1.8	100.00%	0.0	99.21%	1.0	100.00%	0.0	99.84%	0.2	100.00%	0.00%
Sept-24	98.55%	1.74	99.84%	0.19	100.00%	0.00	99.12%	1.06	99.16%	1.01	100.00%	0.00
Oct-24	99.19%	1.0	100.00%	0.0	100.00%	0.0	100.00%	0.0	97.67%	2.9	100.00%	0.00%
Nov-24	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.00%
Dec-24	99.39%	0.76	99.24%	0.95	100.00%	0.00	99.18%	1.01	99.96%	0.05	99.27%	0.91
Jan-25	98.99%	1.3	100.00%	0.0	100.00%	0.0	100.00%	0.0	98.40%	2.0	100.00%	0.00%
Feb-25	99.18%	0.92	99.84%	0.17	100.00%	0.00	100.00%	0.00	100.00%	0.00	98.90%	1.24
Mar-25	98.08%	2.38	99.27%	0.91	98.99%	1.25	100.00%	0.00	95.52%	5.55	100.00%	0.00
Apr-25	98.21%	2.1	100.00%	0.0	100.00%	0.0	100.00%	0.0	97.50%	3.0	98.48%	1.8
May-25	99.33%	0.8	100.00%	0.0	97.26%	3.4	100.00%	0.0	100.00%	0.0	100.00%	0.0
Jun-25	98.12%	2.3	100.00%	0.0	100.00%	0.0	100.00%	0.0	99.16%	1.0	100.00%	0.0
Jul-25	97.94%	2.6	100.00%	0.0	100.00%	0.0	100.00%	0.0	98.41%	2.0	100.00%	0.0

SO3 plant utilisation

Availability												
Month	Unit 1	Days Affected	Unit 2	Days Affected	Unit 3	Days Affected	Unit 4	Days Affected	Unit 5	Days Affected	Unit 6	Days Affected
Jul-24	98.30%	0.53	41.43%	18.16	99.73%	0.08	99.58%	0.13	98.39%	0.50	53.66%	1436.56%
Aug-24	99.46%	0.2	91.70%	2.6	100.00%	0.0	97.98%	0.6	99.59%	0.1	96.68%	103.04%
Sept-24	100.00%	0.0	89.45%	3.2	99.33%	0.2	99.84%	0.0	99.58%	0.1	99.92%	2.45%
Oct-24	99.85%	0.05	95.65%	1.35	Off-line	Off-line	98.92%	0.33	93.82%	1.92	99.59%	12.62%
Nov-24	99.99%	0.0	96.60%	1.0	Off-line	Off-line	99.17%	0.3	97.46%	0.8	99.21%	0.24
Dec-24	52.80%	14.6	27.08%	22.6	Off-line	Off-line	77.33%	7.0	66.67%	10.3	60.94%	12.11
Jan-25	95.59%	1.4	93.50%	2.0	Off-line	Off-line	96.18%	1.2	90.28%	3.0	94.33%	1.76
Feb-25	91.37%	2.4	95.28%	1.3	67.36%	9.14	95.45%	1.3	91.35%	2.4	97.77%	0.62
Mar-25	98.52%	0.5	96.36%	1.1	85.05%	4.63	98.61%	0.4	99.91%	0.0	88.42%	3.59
Apr-25	95.63%	1.3	Off-line	Offline	91.27%	2.62	85.62%	4.3	88.61%	3.4	99.78%	0.07
May-25	96.57%	1.1	Off-line	Offline	98.12%	0.58	99.01%	0.3	100.00%	0.0	99.03%	0.3
Jun-25	99.86%	0.0	Off-line	Offline	99.25%	0.22	99.83%	0.1	98.19%	0.5	99.22%	0.2
Jul-25	99.87%	0.0	Off-line	Offline	99.06%	0.29	100.00%	0.0	98.79%	0.4	66.67%	10.3

ADDENDUM TO MONTHLY EMISSIONS REPORT

Particulate Emission Monitors

Availability						
	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Jul-24	90.95%	73.05%	97.04%	95.37%	98.85%	61.98%
Aug-24	95.70%	91.44%	99.38%	99.60%	98.95%	99.58%
Sept-24	98.11%	94.42%	100.00%	98.42%	96.20%	99.64%
Oct-24	100%	94%	OFF	99%	97%	98.18%
Nov-24	99.43%	99.40%	OFF	99.31%	94.41%	98.54%
Dec-24	100.00%	96.61%	OFF	98.22%	96.26%	99.60%
Jan-25	96.64%	98.67%	OFF	87.85%	92.93%	99.02%
Feb-25	98.72%	97.70%	85.64%	99.62%	93.53%	98.72%

Mar-25	93.15%	96.04%	96.08%	99.85%	92.61%	97.36%
Apr-25	71.99%	OFF	99.17%	87.49%	94.03%	99.11%
May-25	67.27%	OFF	98.66%	99.17%	98.40%	99.86%
Jun-25	96.88%	OFF	98.09%	99.48%	98.44%	99.22%
Jul-25	99.46%	OFF	100.00%	99.45%	98.39%	66.67%

Gaseous Emission Monitors

Availability												
Month	Unit 1		Unit 2		Unit 3		Unit 4		Unit 5		Unit 6	
	SOx	NOx	SOx	NOx	SOx	NOx	SOx	NOx	SOx	NOx	SOx	NOx
Jul-24	99.75%	99.89%	100.00%	100.00%	100.00%	100.00%	99.46%	99.73%	100.00%	100.00%	73.40%	70.78%
Aug-24	99.87%	100.00%	99.80%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Sept-24	100.00%	100.00%	100.00%	99.68%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Oct-24	99.85%	100.00%	99.58%	99.72%	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	99.65%	99.65%
Nov-24	100.00%	100.00%	100.00%	100.00%	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	99.86%	100.00%
Dec-24	57.50%	57.50%	37.50%	37.50%	0.00%	0.00%	79.71%	79.71%	66.67%	66.67%	65.65%	65.73%
Jan-25	99.26%	99.09%	99.33%	99.33%	0.00%	0.00%	100.00%	96.43%	100.00%	100.00%	100.00%	100.00%
Feb-25	98.21%	100.00%	100.00%	99.60%	86.08%	85.19%	96.01%	96.01%	94.55%	94.55%	96.18%	96.18%
Mar-25	93.82%	99.87%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Apr-25	98.61%	98.61%	OFF	OFF	98.61%	98.61%	92.56%	91.94%	99.17%	99.17%	99.17%	99.17%
May-25	97.64%	97.64%	OFF	OFF	98.12%	98.12%	97.53%	97.82%	97.82%	97.82%	98.12%	98.12%
Jun-25	99.86%	99.86%	OFF	OFF	95.99%	95.99%	99.83%	99.83%	99.71%	99.57%	99.64%	99.82%
Jul-25	99.73%	99.73%	OFF	OFF	99.73%	99.73%	99.87%	99.87%	99.87%	99.87%	100.00%	100.00%

Oxygen Monitor Availability						
	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Jul-24	99.89%	100.00%	100.00%	100.00%	99.84%	50.17%
Aug-24	99.87%	99.80%	99.87%	99.87%	100.00%	99.48%
Sept-24	100.00%	99.90%	100.00%	99.86%	99.72%	99.70%
Oct-24	99.23%	99.55%	0.00%	99.87%	94.89%	99.28%
Nov-24	100.00%	100.00%	0.00%	99.86%	84.89%	99.15%
Dec-24	57.50%	37.50%	0.00%	79.71%	66.67%	65.73%
Jan-25	99.55%	99.50%	0.00%	98.40%	99.43%	82.47%
Feb-25	99.70%	99.24%	85.19%	95.83%	94.39%	60.94%
Mar-25	100.00%	100.00%	100.00%	100.00%	99.81%	99.87%
Apr-25	98.74%	OFF	98.44%	92.56%	99.03%	99.00%
May-25	97.27%	OFF	97.98%	97.53%	97.52%	97.98%
Jun-25	99.72%	OFF	95.83%	99.83%	99.57%	99.64%
Jul-25	99.73%	OFF	99.73%	99.73%	99.60%	100.00%

ADDENDUM TO MONTHLY EMISSIONS REPORT

14. EFFICIENCY

ESP Efficiency (%)						
	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Jul-24	99.848%	99.125%	99.796%	99.588%	99.735%	99.450%
Aug-24	99.845%	99.625%	99.749%	99.755%	99.769%	99.907%
Sept-24	99.789%	99.660%	99.775%	99.644%	99.675%	99.896%
Oct-24	99.87%	99.72%	Unit Off	99.67%	99.64%	99.856%
Nov-24	99.838%	99.782%	Unit Off	99.515%	99.662%	99.888%
Dec-24	99.773%	99.722%	Unit Off	99.513%	99.695%	99.891%
Jan-25	99.573%	99.764%	Unit Off	99.650%	99.408%	99.613%
Feb-25	99.455%	99.758%	97.777%	99.804%	99.266%	99.787%
Mar-25	99.510%	99.690%	97.280%	99.770%	99.010%	99.780%
Apr-25	94.943%	Unit Off-line	99.464%	97.853%	99.121%	99.825%
May-25	93.936%	Unit Off-line	99.442%	99.670%	99.743%	99.863%
Jun-25	99.760%	Unit Off-line	99.800%	99.790%	99.743%	99.880%
Jul-25	99.804%	Unit Off-line	99.823%	99.693%	99.501%	99.967%

15. REMARKS

UNIT	MWLOSS	REASON	ACTUALSTARTDATE	ACTUALENDDATE
1	593	tripped on low drum level	2025/07/01 00:31:00	2025/07/01 05:56:00
1	90	EF:High stack emissions	2025/07/10 19:34:00	2025/07/10 20:29:00
1	190	EF:High stack emissions	2025/07/10 20:29:00	2025/07/11 00:04:00
1	90	LHO casing repairs	2025/07/12 00:00:00	2025/07/12 16:36:00
1	90	RH Outer precip casing repairs	2025/07/19 00:00:00	2025/07/20 00:00:00
1	90	RH Outer precip casing repairs	2025/07/20 00:00:00	2025/07/20 01:03:00
1	90	LHI casing repairs	2025/07/26 00:00:00	2025/07/26 19:19:00
2	593	MGO ESP & SO3	2025/07/01 00:00:00	2025/07/31 23:59:59
3	43	Correlation test.	2025/07/02 21:19:00	2025/07/03 01:16:00
3	146	Correlation test.	2025/07/03 01:16:00	2025/07/03 03:50:00
3	157	Correlation test	2025/07/03 22:56:00	2025/07/04 03:26:00
3	94	Correlation test	2025/07/10 22:05:00	2025/07/11 04:42:00
3	593	Low drum level due to BFPT tripped and A EFP not coping.	2025/07/12 11:55:00	2025/07/12 17:46:00
4	593	Stator coolant pump A tripped and B pump fails to cut in.	2025/07/06 05:34:00	2025/07/06 13:04:00
4	593	Unit manually tripped due to Stator coolant pump A tripped and B pump failed.	2025/07/13 00:35:00	2025/07/13 06:13:00
4	155	High stack emissions.	2025/07/14 08:49:00	2025/07/14 15:34:00
4	110	High stack emissions.	2025/07/14 15:34:00	2025/07/14 16:55:00
4	59	High stack emissions.	2025/07/14 16:55:00	2025/07/14 20:25:00
4	81	High stack emissions.	2025/07/14 20:25:00	2025/07/15 00:48:00
4	73	RH Inner precip casing repairs	2025/07/20 00:00:00	2025/07/20 14:13:00
4	593	Unit 4 tripped Low Drum level	2025/07/20 14:13:00	2025/07/20 18:44:00
4	55	High stack emissions	2025/07/24 19:38:00	2025/07/24 22:18:00
4	154	High stack emissions.	2025/07/24 22:18:00	2025/07/25 04:41:00
4	54	High stack emissions.	2025/07/25 04:41:00	2025/07/25 14:36:00
4	154	EF:High stack emissions	2025/07/25 14:36:00	2025/07/26 17:47:00
4	71	LHI precip casing repairs	2025/07/27 00:00:00	2025/07/27 21:00:00
5	100	High stack emissions	2025/07/22 10:07:00	2025/07/22 16:16:00
5	200	High stack emissions	2025/07/22 19:25:00	2025/07/22 23:14:00
5	101	High stack emissions	2025/07/22 23:14:00	2025/07/23 00:02:00
5	200	High stack emissions	2025/07/23 00:02:00	2025/07/23 11:11:00
5	228	High stack emissions	2025/07/23 11:11:00	2025/07/24 05:06:00
5	100	High stack emissions	2025/07/24 05:06:00	2025/07/24 05:33:00
5	100	LHO Precip casing repairs	2025/07/25 03:36:00	2025/07/26 03:35:00
5	100	Still air test failed reinspection needed	2025/07/26 03:35:00	2025/07/26 08:59:00
5	197	High stack emissions	2025/07/26 16:57:00	2025/07/26 17:59:00

5	208	High stack emissions.	2025/07/26 17:59:00	2025/07/27 00:00:00
5	100	RHI precip casing repairs	2025/07/27 00:00:00	2025/07/27 23:25:00
6	593	Gen Rotor Earth fault alarm received and sustained.	2025/07/01 00:00:00	2025/07/27 23:25:00
6	593	Unit 6 tripped manually after losing EFP A.	2025/07/28 23:43:00	2025/07/29 03:23:00

PM Exceedances		
U1.	ESP poor casing performance. LHO casing outage.	12-Jul
U1.	Poor ESP casing performance. RHO casing outage.	19-Jul
U1.	Poor ESP casing performance. High hopper levels.	22-Jul
U1.	Poor ESP casing performance. LHI casing outage.	26-Jul
U3.	Unit 3 correlation test (F1,2,3 - Off) in all casings.	15-Jul
U4.	ESP Casing poor performance. RHO ESP casing outage.	04-Jul
U4.	Poor ESP casing performance. Sulphur flow lost. ESP casing fields switched off due to turbine trip and oil burners in-service.	06-Jul
U4.	Poor ESP casing performance. High hopper levels.	10-Jul
U4.	Poor ESP casing performance.	12-Jul
U4.	Unit 4 tripped with boiler on still on by-pass High hopper levels. Poor ESP casing performance.	13-Jul
U4.	Poor ESP casing performance. Manual rapping done.	15-Jul
U4.	Unit 4 tripped. Poor ESP Casing performance. RHI casing outage.	20-Jul
U4.	Unit 4 lightup conditions.	21-Jul
U4.	Unit 4 lightup conditions. High hopper levels.	22-Jul

PM Exceedances		
U4.	Poor ESP casing performance. Clean rapping brought forward. High hopper levels.	23-Jul
U4.	Poor ESP casing performance.	24-Jul
U4.	Poor ESP casing performance. LHI casing outage.	27-Jul
U5.	Poor ESP casing performance. SO3 plant issues. Manual rapping done.	18-Jul
U5.	Poor ESP casing performance. SO3 plant issues.	20-Jul
U5.	Poor ESP casing performance. Manual rapping done.	21-Jul
U5.	Poor ESP casing performance. Manual rapping done.	22-Jul
U5.	Poor ESP casing performance. LHO ESP casing on force cooling.	24-Jul
U5.	ESP casing performance. LHO ESP casing outage.	25-Jul
U5.	Poor ESP casing performance. RHI ESP casing performance.	27-Jul
U6.	The unit synchronised on load on 2025/07/27 @ 23:26 the emissions needs to be below the limit on 2025/07/30@	28-Jul