Eskom

Mr. Mcebo Mkhatshwa
Air Quality Officer
Fezile Dabi District Municipality
P.O Box 10
Sasolburg
1947

Date:

Enquiries:
S Xulu
Tel +27 16 457 5947

LRP01PLA000 _0487/2025/11/13

Dear Mr. Mkhatshwa

LETHABO POWER STATION EMISSION MONTHLY REPORT FOR OCTOBER 2025

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

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

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

Yours sincerely

Karabo Rakgolela
GENERAL MANAGER

Generation Division
Lethabo Power Station
Viljoensdrif / Deneysville Free State
Private Bag X415 Vereeniging 1930 SA
Tel +27 16 457 5111 Fax +27 16 457 5712 www.eskom.co.za

Eskom Holdings SOC Ltd Reg No 2002/015527/30

Eskom	Report	Lethabo Power Station

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

Reference number: **LRP01PLA000 _0487/2025/11/13**
Document Type: **Report**
Area of Applicability: **Environment**
Report Date: **November-2025**
Classification: **Controlled Disclosure**

Signatures:

Compiled by:
S Zulu
Boiler Engineer
Date: 20/11/2025

Verified by :
S Xulu
Environmental Officer
Date: 2025/11/21

Reviewed by:
N. Mazibuko
BPE Manager
Date: 2025/11/17

Reviewed by:
~~C Govinden~~ P Malinga
PE Manager
Date: 24/11/2025

Reviewed by:
L Nel
C&I Manager
Date: 2025-11-21

Reviewed by:
L Moreoane
Act.Environmental Manager
Date: 2025-11-21

Approved by:
H Sewsunker
Techincal Manager
Date: 2025/11/28

Reviewed by:
T. Njapha
Engineering Manager
Date: 2025-11-27

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 Oct-2025
	Coal	Tons	*2 000 000*	*1 091 798*
	Fuel Oil	Tons	*3 700*	*1546.680*
Production Rates	**Product / By-Product Name**	**Units**	**Max Production Capacity Permitted**	**Indicative Production Rate Oct-2025**
	Energy	GWh	*2 834.640*	*1 488.706*
	Ash	Tons	*940 000*	*413 136.200*
	RE Ash	kg/MWh	*not specified*	*0.426*

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	%	*<1.2*	*0.720*
Ash Content	%	*<47*	*37.840*

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)

	Daily Limit		
Associated Unit/Stack	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 Utlization
Unit 1	*ESP + SO_3*	*99.825%*	*SO_3*	*99.5%*
Unit 2	*ESP + SO_3*	*99.874%*	*SO_3*	*99.0%*
Unit 3	*ESP + SO_3*	*99.842%*	*SO_3*	*93.3%*
Unit 4	*ESP + SO_3*	*99.661%*	*SO_3*	*93.0%*
Unit 5	*ESP + SO_3*	*Off-line*	*SO_3*	*Off-line*
Unit 6	*ESP + SO_3*	*99.898%*	*SO_3*	*99.0%*

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	*97.7*	*99.9*	*99.7*	*100.0*
Unit 2	*95.3*	*99.9*	*99.0*	*99.7*
Unit 3	*97.8*	*100.0*	*100.0*	*99.9*
Unit 4	*99.4*	*100.0*	*99.6*	*100.0*
Unit 5	*Off*	*Off*	*Off*	*Off*
Unit 6	*99.7*	*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 NO_2 equivalent.

6 EMISSION PERFORMANCE

Table 6.1: Monthly tonnages for October 2025

Associated Unit/Stack	PM (tons)	SO_2 (tons)	NO_x (tons)
Unit 1	157.9	3 159	1 541
Unit 2	103.5	3 728	1 375
Unit 3	123.2	4 144	1 590
Unit 4	180.9	2 917	1 129
Unit 5	Off	Off	Off
Unit 6	69.2	3 306	1 351
SUM	634.64	17 253	6 987

Table 6.2: PM AEL Daily Compliance - October 2025

Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Mnth Avg (mg/Nm^3)
Unit 1	23	4	0	0	4	89.7
Unit 2	24	1	0	0	1	63.2
Unit 3	26	3	0	0	3	86.1
Unit 4	10	12	0	0	12	152.2
Unit 5	Off	Off	Off	Off	Off	Off
Unit 6	18	5	0	0	5	49.4
SUM	**101**	**25**	**0**	**0**	**25**	

Table 6.3: SO_2 AEL Daily Compliance - October 2025

Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Mnth Avg (mg/Nm³)
Unit 1	28	0	0	0	0	1 757.8
Unit 2	27	0	0	0	0	2 005.9
Unit 3	31	0	0	0	0	1 960.2
Unit 4	25	0	0	0	0	1 998.3
Unit 5	Off	Off	Off	Off	Off	Off
Unit 6	26	0	0	0	0	2 067.8
SUM	**137**	**0**	**0**	**0**	**0**	

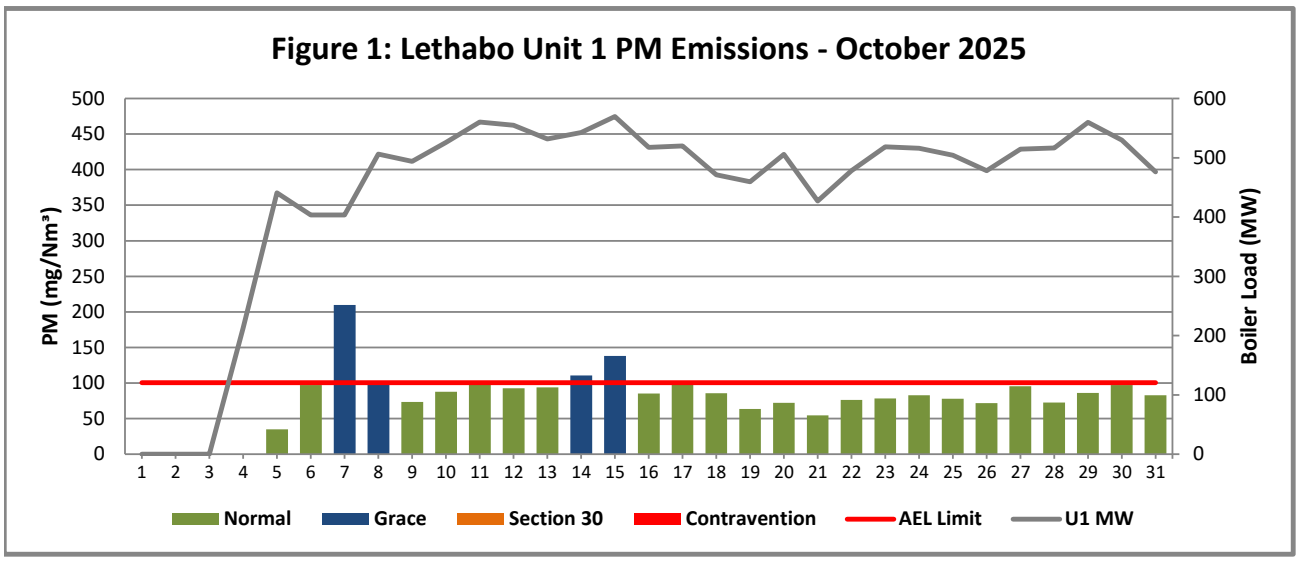
Table 6.4: NO_x AEL Daily Compliance - October 2025

Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Mnth Avg (mg/Nm³)
Unit 1	28	0	0	0	0	852.0
Unit 2	27	0	0	0	0	731.8
Unit 3	31	0	0	0	0	741.3
Unit 4	25	0	0	0	0	748.9
Unit 5	Off	Off	Off	Off	Off	Off
Unit 6	26	0	0	0	0	846.0
SUM	**137**	**0**	**0**	**0**	**0**	

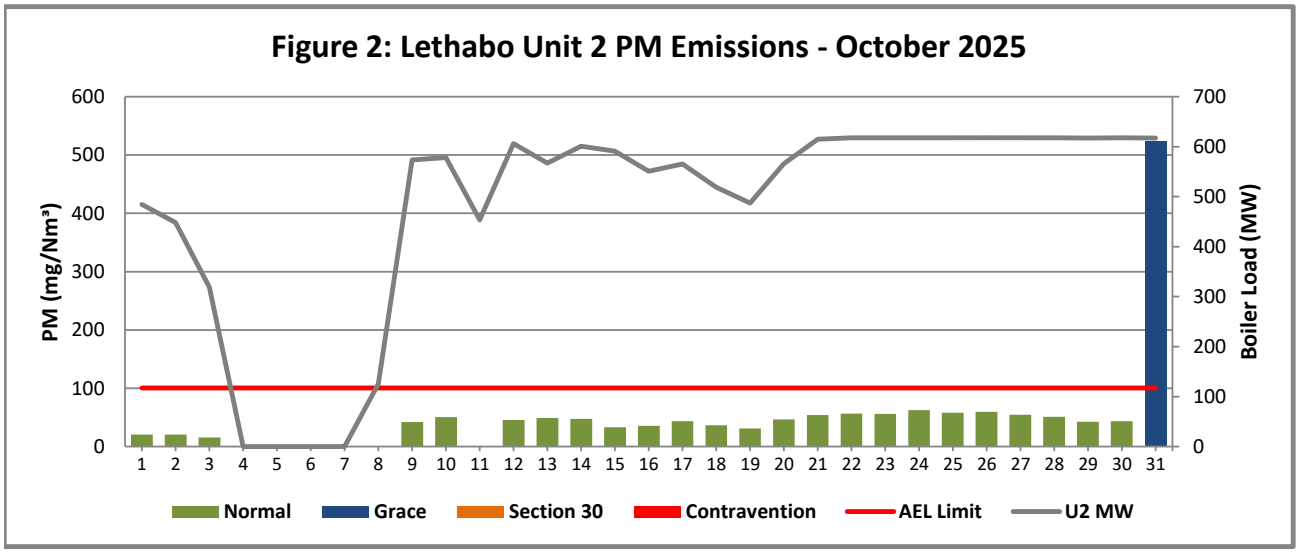
Note: Daily limit compliance is shown in the bar charts; monthly compliance is summarized in the table above.

Table 6.5: Legend Description

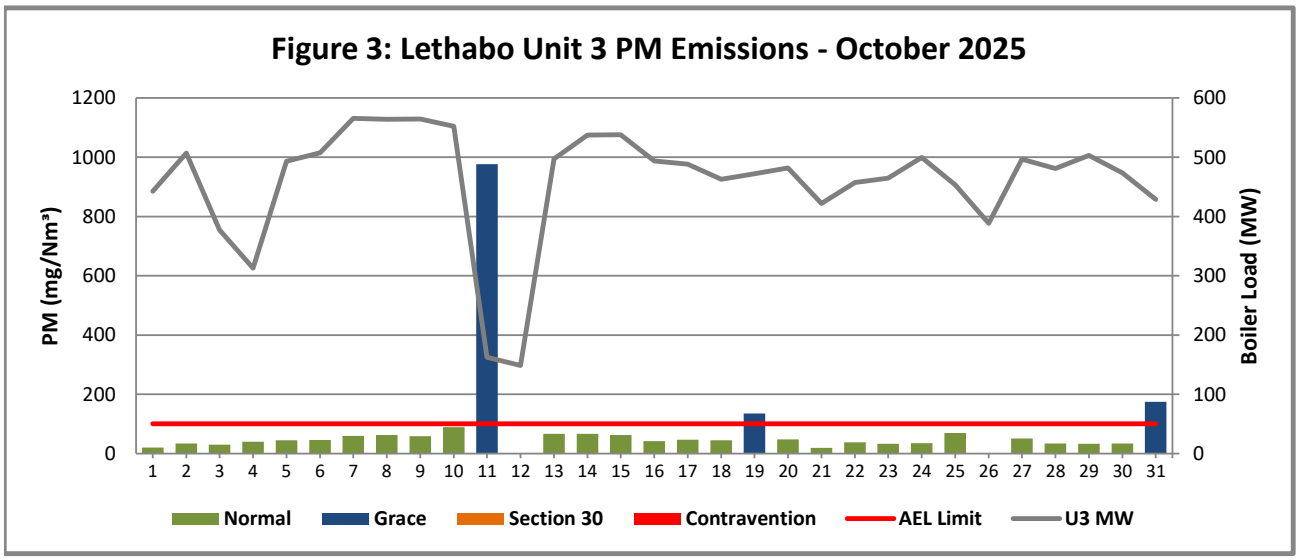
Condition	Colour	Description
Normal	GREEN	Emissions below Emission Limit Value (ELV)
Grace	BLUE	Emissions above the ELV during grace period
Section 30	ORANGE	Emissions above ELV during a NEMA S30 incident
Contravention	RED	Emissions above ELV but outside grace or S30 incident conditions



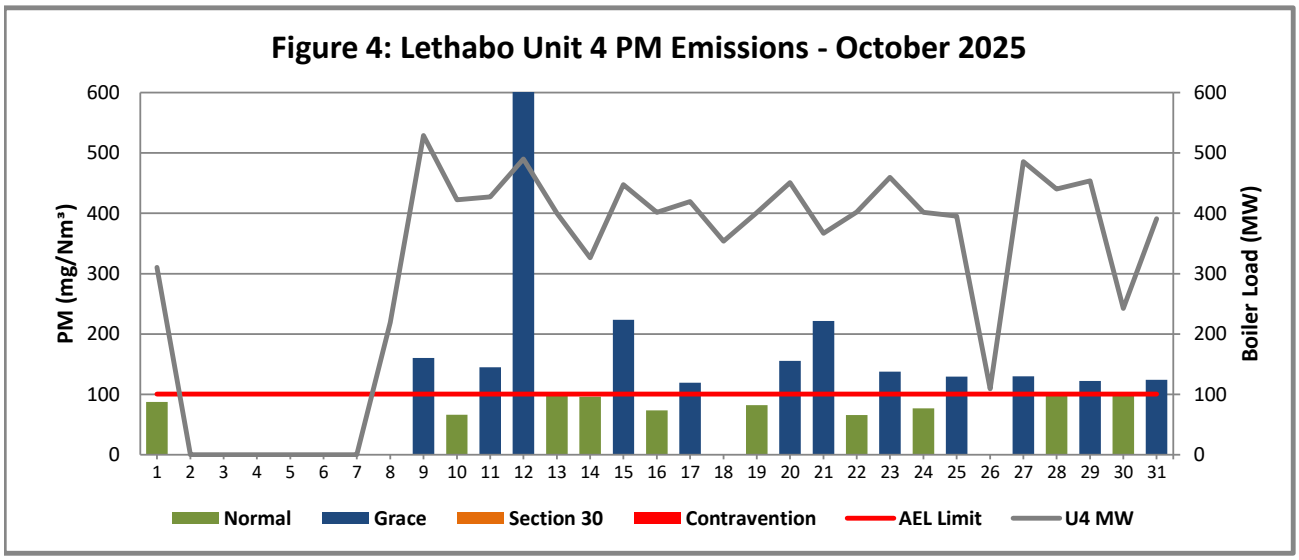
Reasons:	
Date	**Description**
07-Oct	16 X High hopper levels. Poor ESP casing performance. RHO ESP casing isolated. 1B Bucket elevator on PTW. Backlogging done on 1A Route.
08-Oct	4 X High hopper levels. Poor ESP casing performance. 1B Bucket elevator on PTW. Backlogging done on 1A Route.
14-Oct	Poor ESP casing performance.
15-Oct	Poor ESP casing performance.



Date	Description
31-Oct	Monitor faulty resulting in max values.



Date	Description
11-Oct	No abatement technology available due to LH PA fan off load. U3 off for M/T FRF filter changeover valve repairs.
19-Oct	Poor ESP casing performance. RHO casing outage.
31-Oct	Monitor faulty resulting in Max values.



Reasons:	
Date	**Description**
09-Oct	Unit 4 synchronized on 2025/10/08 @ 12:58, therefore needs to be below the limit by 2025/10/10 @ 12:58 and remain below the limit until at least 2025/10/11 Poor ESP casing performance. Test rapping done.
11-Oct	Precip casing forced cooling for repairs. Issues with RHI casing isolation.
12-Oct	ESP casing poor performance. RHI isolating outlet damper issues.
15-Oct	The unit synchronized on 2025/10/14 @ 15:45, therefore needs to be below the limit by 2025/10/16 @ 15:45 and remain below the limit until at least 2025/10/17. Both A & B route bucket elevators are not available.
17-Oct	Poor ESP casing performance. RHI casing on forced cooling.
20-Oct	Low load conditions due to BFPT trip.
21-Oct	Poor ESP casing performance.
23-Oct	Poor ESP casing performance.
25-Oct	Unit 4 tripped manually due to low bunker levels. ESP casing poor performance.
27-Oct	The unit synchronized on 2025/10/26 @ 17:19, therefore needs to be below the limit by 2025/10/28 @ 17:19 and remain below the limit until at least 2025/10/29
29-Oct	Poor ESP casing performance.
31-Oct	Poor ESP casing performance.

Figure 5: Lethabo Unit 5 PM Emissions - October 2025

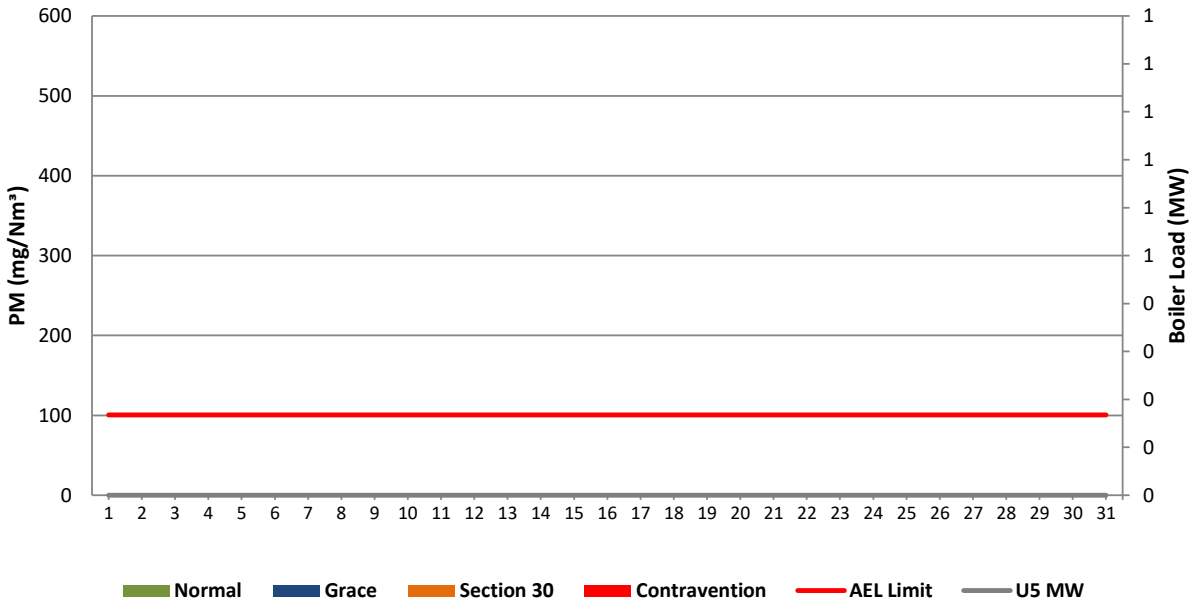
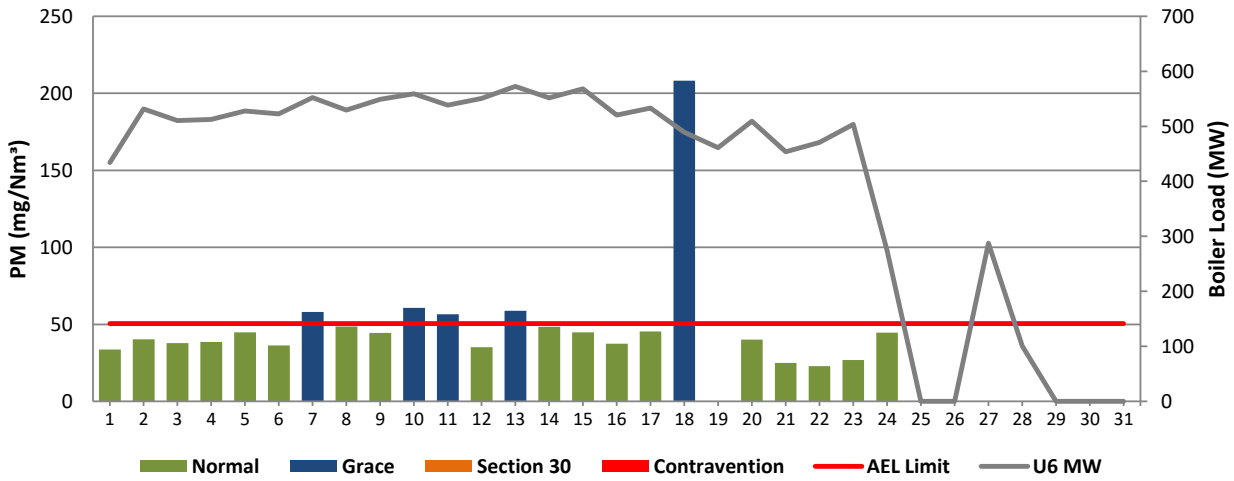
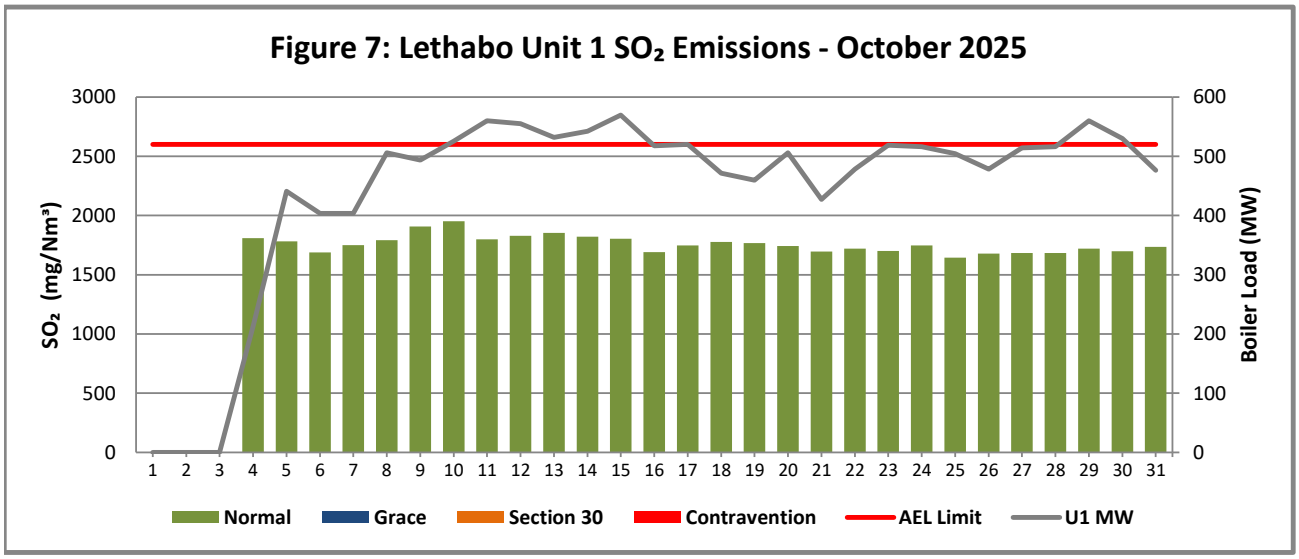
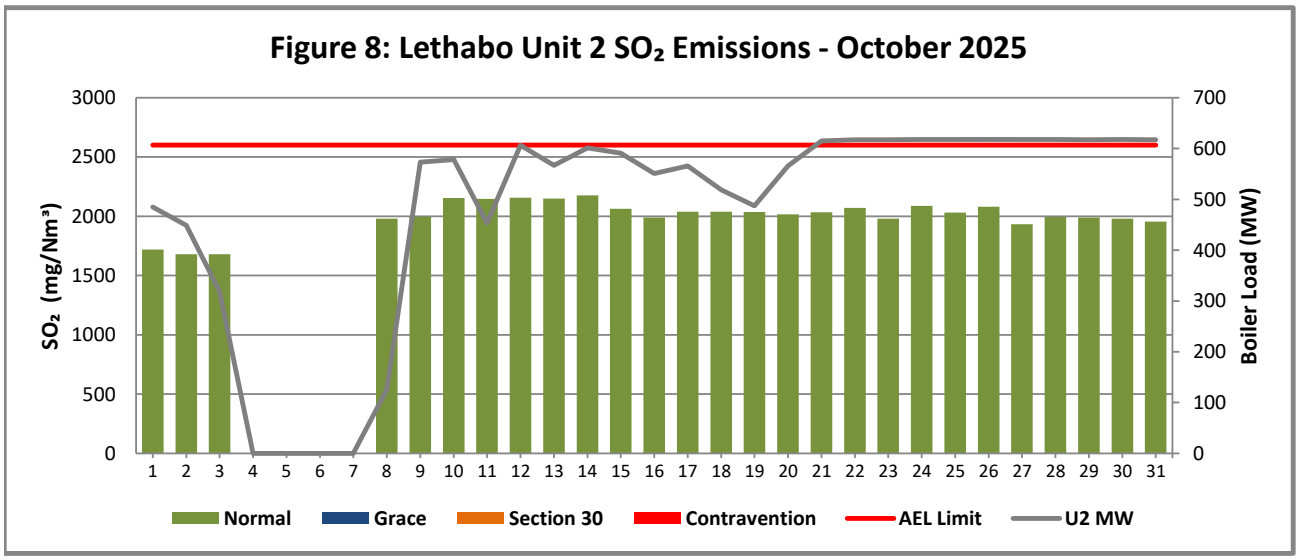


Figure 6: Lethabo Unit 6 PM Emissions - October 2025



Reasons:	
Date	**Description**
07-Oct	High hopper levels. Poor ESP casing performance.
10-Oct	ESP casing poor performance.
11-Oct	ESP casing poor performance.
13-Oct	ESP casing poor performance.
18-Oct	Unit 6 synchronised on load. Unit 6 manually tripped for over speed test.





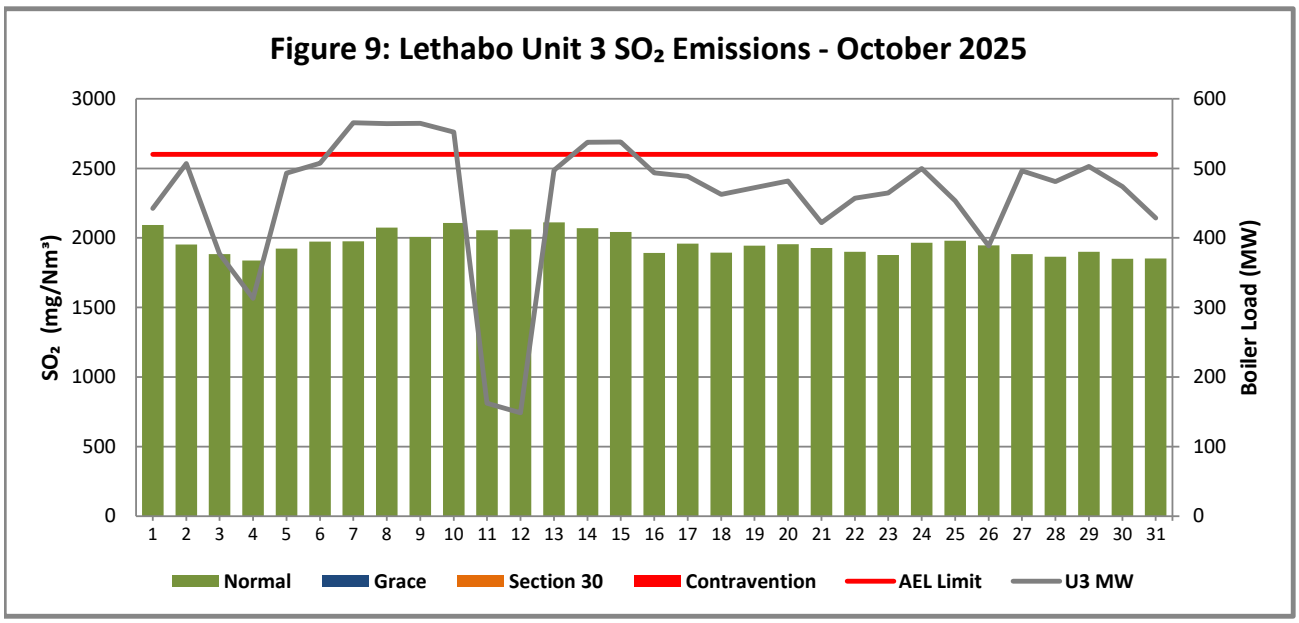


Figure 9: Lethabo Unit 3 SO₂ Emissions - October 2025
SO₂ (mg/Nm³)
Boiler Load (MW)
3000
2500
2000
1500
1000
500
0
600
500
400
300
200
100
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Normal
Grace
Section 30
Contravention
AEL Limit
U3 MW

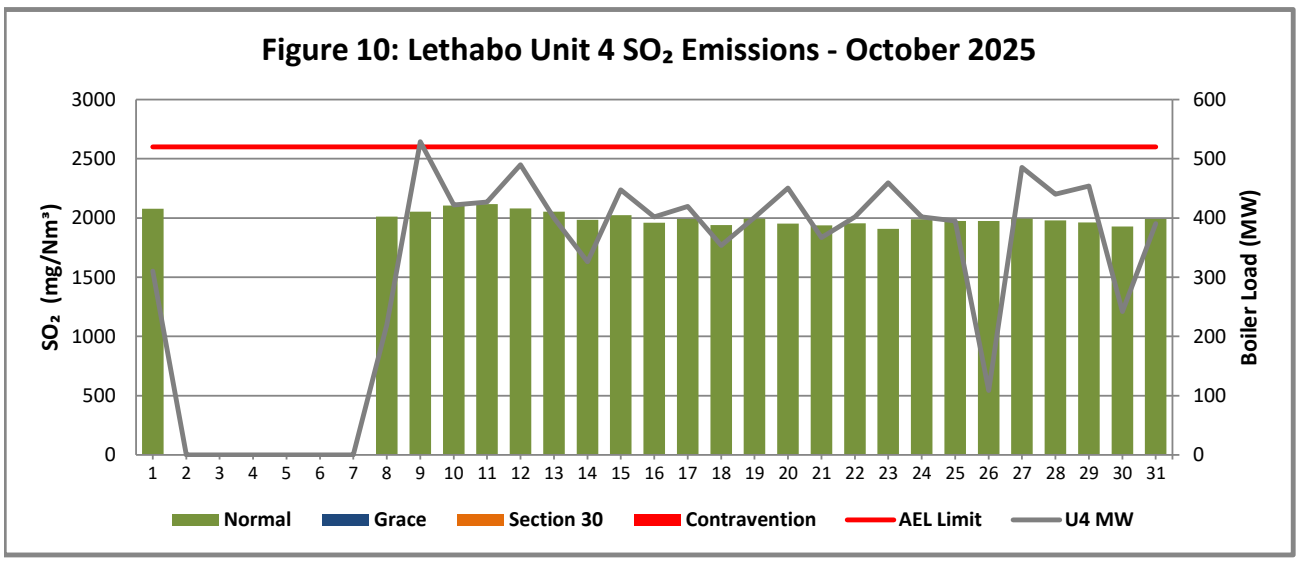


Figure 10: Lethabo Unit 4 SO₂ Emissions - October 2025
SO₂ (mg/Nm³)
Boiler Load (MW)
3000
2500
2000
1500
1000
500
0
600
500
400
300
200
100
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Normal
Grace
Section 30
Contravention
AEL Limit
U4 MW

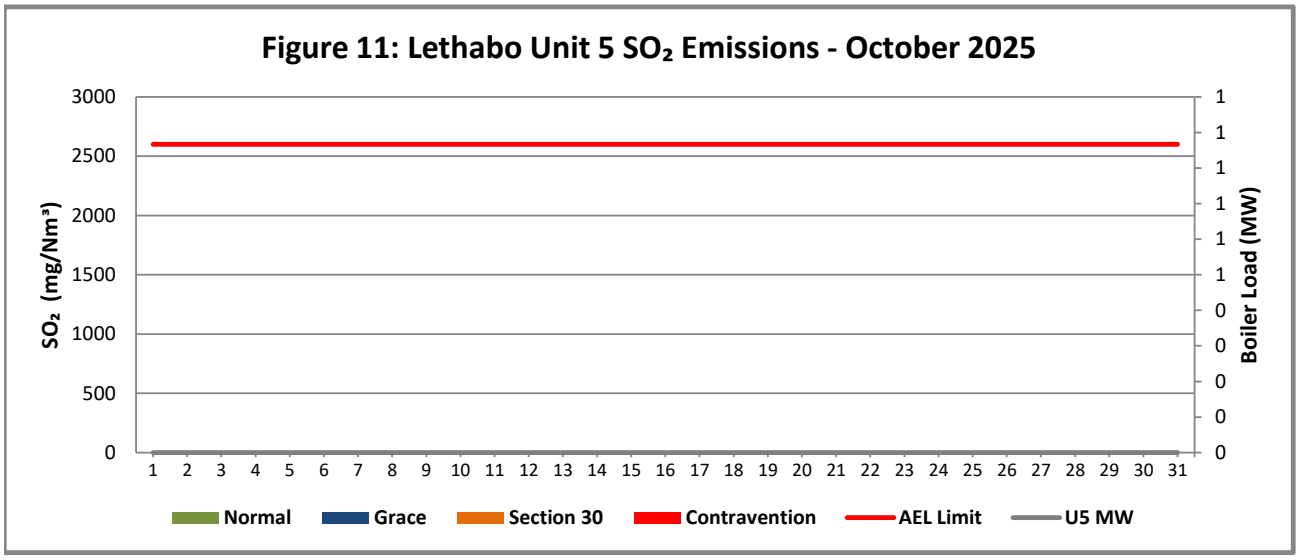


Figure 11: Lethabo Unit 5 SO₂ Emissions - October 2025
SO₂ (mg/Nm³)
Boiler Load (MW)
Normal
Grace
Section 30
Contravention
AEL Limit
U5 MW

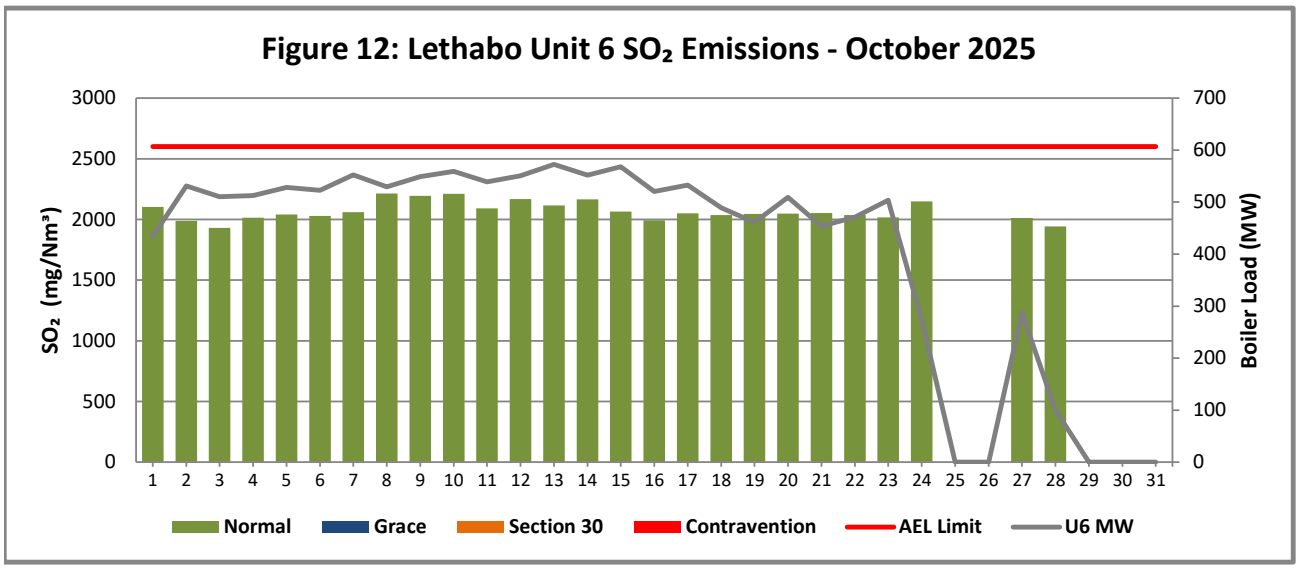


Figure 12: Lethabo Unit 6 SO₂ Emissions - October 2025
SO₂ (mg/Nm³)
Boiler Load (MW)
Normal
Grace
Section 30
Contravention
AEL Limit
U6 MW

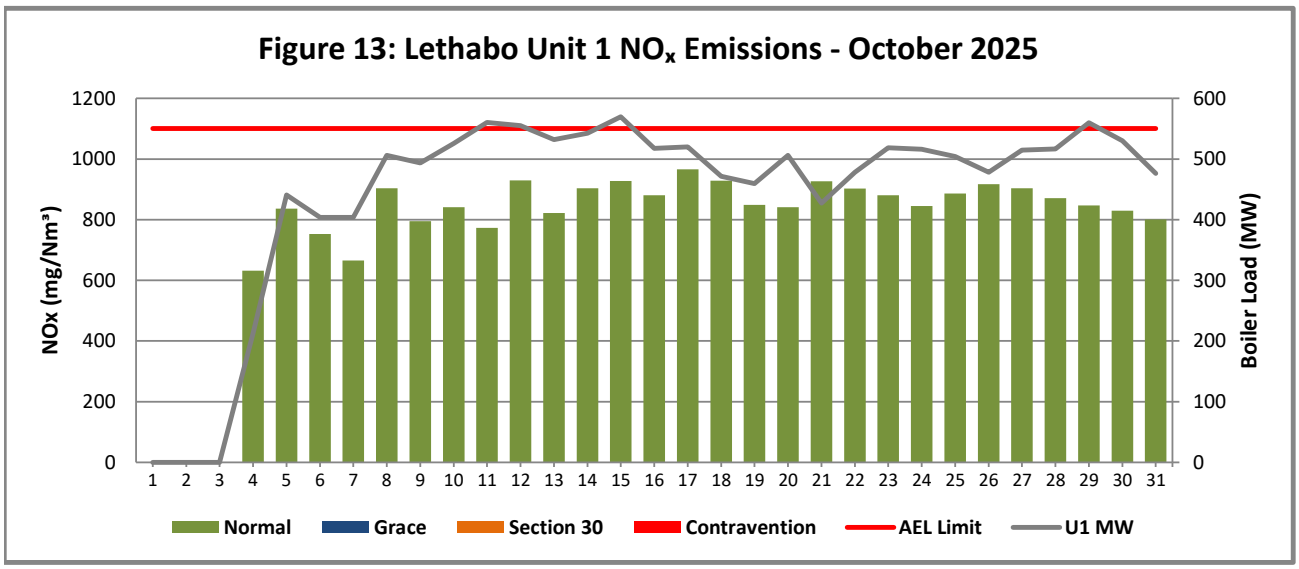


Figure 13: Lethabo Unit 1 NOx Emissions - October 2025
NOx (mg/Nm³)
Boiler Load (MW)
Normal
Grace
Section 30
Contravention
AEL Limit
U1 MW

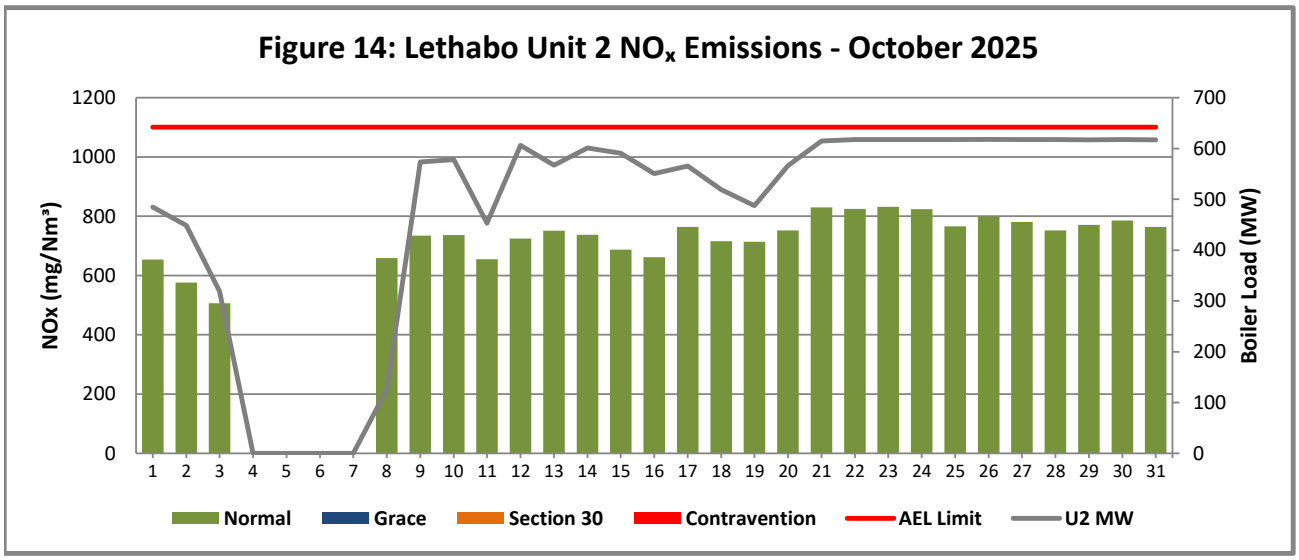


Figure 14: Lethabo Unit 2 NOx Emissions - October 2025
NOx (mg/Nm³)
Boiler Load (MW)
Normal
Grace
Section 30
Contravention
AEL Limit
U2 MW

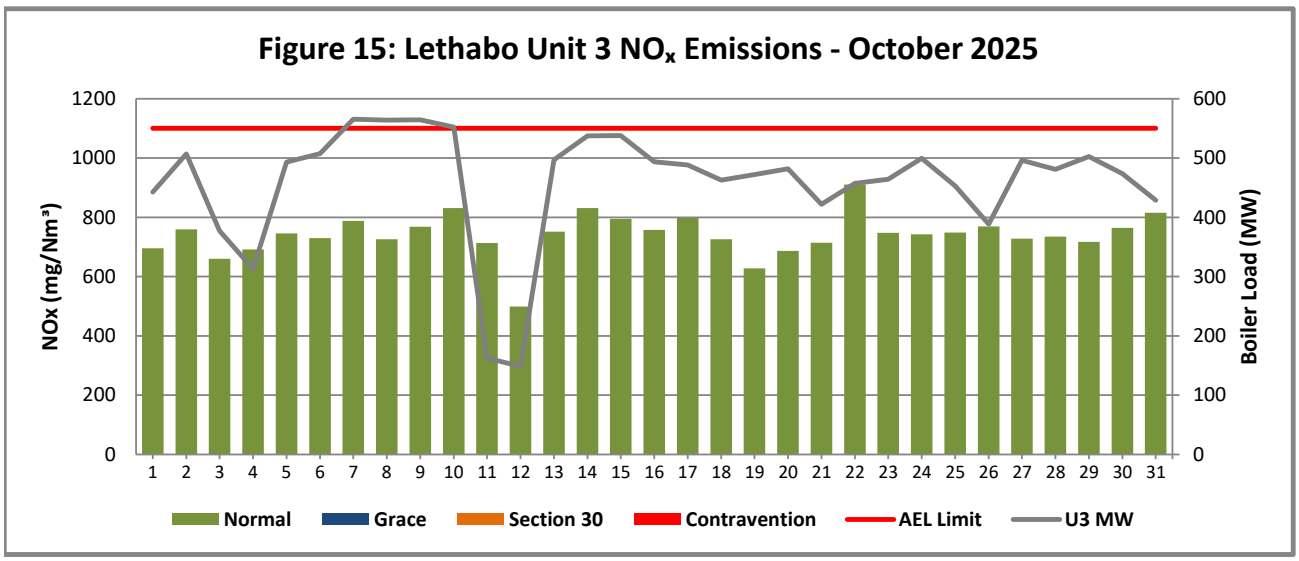


Figure 15: Lethabo Unit 3 NOx Emissions - October 2025
NOx (mg/Nm³)
Boiler Load (MW)
0
200
400
600
800
1000
1200
0
100
200
300
400
500
600
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Normal
Grace
Section 30
Contravention
AEL Limit
U3 MW

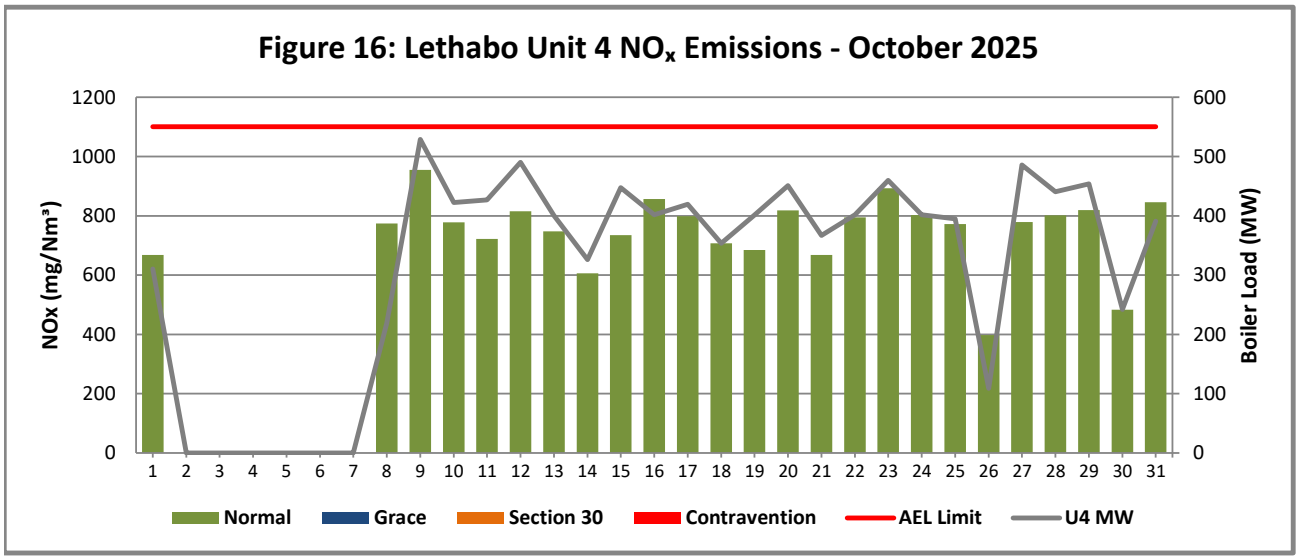


Figure 16: Lethabo Unit 4 NOx Emissions - October 2025
NOx (mg/Nm³)
Boiler Load (MW)
0
200
400
600
800
1000
1200
0
100
200
300
400
500
600
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Normal
Grace
Section 30
Contravention
AEL Limit
U4 MW

Figure 17: Lethabo Unit 5 NO_x Emissions - October 2025

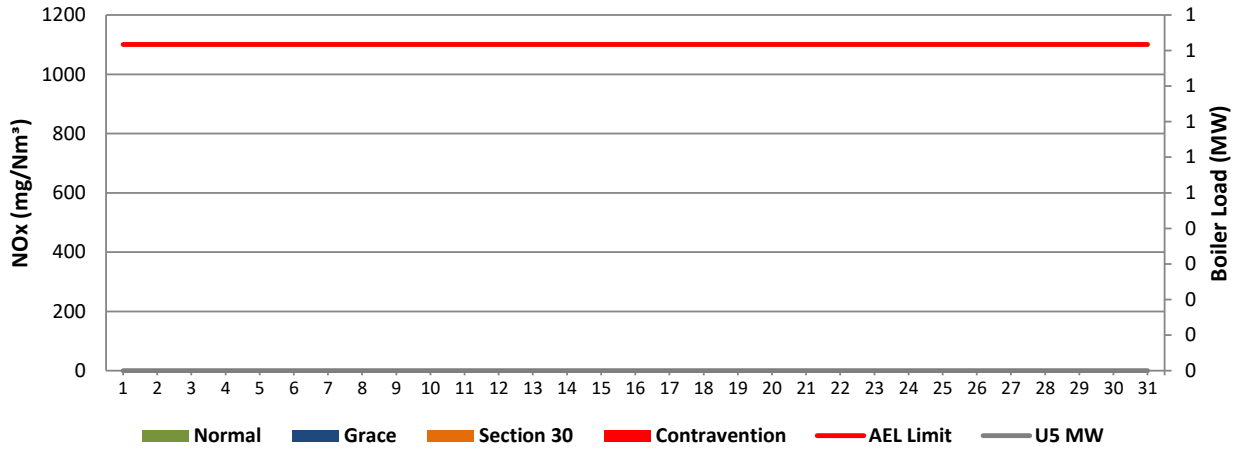
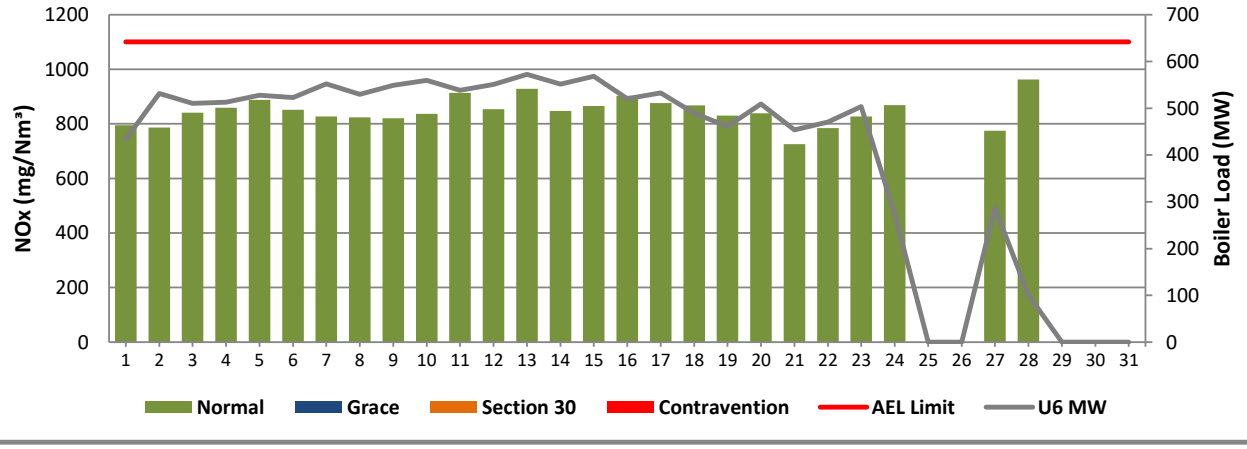


Figure 18: Lethabo Unit 6 NO_x Emissions - October 2025



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

See Events sheet

8. MAINTENANCE

Unit 1				
Beginning of				
Reason for Maintenance				
End (Time):				
Duration				

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

Unit 3				
Beginning of	2025/10/19 00:00:00			
Reason for Maintenance	RHO casing repairs.			
End (Time):	2025/10/19 23:39:00			
Duration	23:39:00			

Unit 4	2025/10/12 00:00:00			
Beginning of	RHI casing repairs.			
Reason for Maintenance	2025/10/12 23:58:00			
End (Time):	23:58:00			
Duration				

Unit 5				
Beginning of				
Reason for Maintenance				
End (Time):				
Duration				

Unit 6				
Beginning of				
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 1: Monitor Reliability
08/10/2025: PM monitor Reliability low due to monitor max out and in maintenance mode for approximately 6hrs.

Unit 2: Monitor Reliability
31/10/2025: PM monitor Reliability low due to monitor faulty.

Unit 3: Monitor Reliability
11/10/2025: PM monitor Reliability low due to monitor faulty.
31/10/2025: PM monitor reliability low due to blower tripped and shutters closed (Monitor maxout).

Unit 2: Gaseous Monitor Reliability
08/10/2025: Gaseous monitor reliability low due to server issues.

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.

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.

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
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
Aug-25	0.60	OFF	0.39	0.59	0.68	0.62	0.58
Sept-25	0.61	0.18	0.28	1.07	2.17	0.20	0.67
Oct-25	0.48	0.29	0.36	0.77	OFF	0.23	0.41

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-Oct		20	21	88		34	100	50
02-Oct		21	34			40	100	50
03-Oct		15	30			38	100	50
04-Oct			40			39	100	50
05-Oct	35		45			45	100	50
06-Oct	97		46			36	100	50
07-Oct	210		60			58	100	50
08-Oct	103		63			49	100	50
09-Oct	74	42	58	160		44	100	50
10-Oct	88	51	89	66		61	100	50
11-Oct	98		977	145		56	100	50
12-Oct	93	45		838		35	100	50
13-Oct	94	49	66	98		59	100	50
14-Oct	111	48	67	96		48	100	50
15-Oct	138	33	62	224		45	100	50
16-Oct	85	35	42	73		37	100	50
17-Oct	100	44	47	119		45	100	50
18-Oct	86	36	45			208	100	50
19-Oct	64	31	135	82			100	50
20-Oct	72	47	48	155		40	100	50
21-Oct	55	54	19	221		25	100	50
22-Oct	76	57	38	66		23	100	50
23-Oct	78	56	33	138		27	100	50
24-Oct	83	62	35	77		45	100	50
25-Oct	78	58	69	130			100	50
26-Oct	72	59					100	50
27-Oct	96	55	51	130			100	50
28-Oct	72	51	34	98			100	50
29-Oct	86	43	33	122			100	50
30-Oct	97	44	34	98			100	50
31-Oct	83	524	175	124			100	50

ADDENDUM TO MONTHLY EMISSIONS REPORT

Final SOx Concentration (mg/Nm³)

Date	U1	U2	U3	U4	U5	U6	**Limit**
01-Oct		1719	2093	2079		2104	2600
02-Oct		1680	1952			1987	2600
03-Oct		1679	1883			1931	2600
04-Oct	1810		1839			2013	2600
05-Oct	1783		1924			2041	2600
06-Oct	1689		1974			2028	2600
07-Oct	1750		1975			2059	2600
08-Oct	1791	1979	2074	2011		2213	2600
09-Oct	1906	1996	2008	2054		2193	2600
10-Oct	1951	2155	2108	2106		2212	2600
11-Oct	1800	2147	2055	2117		2092	2600
12-Oct	1830	2157	2062	2082		2168	2600
13-Oct	1854	2150	2112	2054		2114	2600
14-Oct	1821	2176	2070	1986		2165	2600
15-Oct	1804	2062	2042	2025		2064	2600
16-Oct	1690	1990	1893	1961		1992	2600
17-Oct	1747	2038	1959	1991		2049	2600
18-Oct	1777	2040	1894	1942		2036	2600
19-Oct	1766	2037	1945	1995		2046	2600
20-Oct	1743	2016	1955	1954		2048	2600
21-Oct	1695	2033	1927	1939		2053	2600
22-Oct	1721	2071	1900	1956		2035	2600
23-Oct	1701	1979	1878	1909		2017	2600
24-Oct	1748	2089	1966	1990		2148	2600
25-Oct	1644	2032	1981	1974			2600
26-Oct	1679	2081	1947	1975			2600
27-Oct	1684	1934	1883	1995		2013	2600
28-Oct	1683	1995	1865	1980		1941	2600
29-Oct	1720	1989	1899	1963			2600
30-Oct	1699	1981	1851	1929			2600
31-Oct	1734	1955	1853	1993			2600

ADDENDUM TO MONTHLY EMISSIONS REPORT

Final NOx Concentration (mg/Nm³)

Date	U1	U2	U3	U4	U5	U6	**Limit**
01-Oct		654	695	668		795	1100
02-Oct		577	759			787	1100
03-Oct		506	660			841	1100
04-Oct	632		692			859	1100
05-Oct	836		746			888	1100
06-Oct	753		730			851	1100
07-Oct	666		788			827	1100
08-Oct	904	659	726	774		824	1100
09-Oct	795	734	769	955		821	1100
10-Oct	841	736	832	778		837	1100
11-Oct	773	655	713	722		913	1100
12-Oct	930	725	499	816		854	1100
13-Oct	822	751	751	748		928	1100
14-Oct	904	738	832	606		847	1100
15-Oct	927	688	795	735		866	1100
16-Oct	881	662	757	857		903	1100
17-Oct	966	764	798	799		877	1100
18-Oct	928	716	727	708		867	1100
19-Oct	849	714	628	684		830	1100
20-Oct	842	752	687	819		839	1100
21-Oct	927	830	715	668		725	1100
22-Oct	903	825	911	795		784	1100
23-Oct	880	832	748	893		827	1100
24-Oct	845	824	743	803		868	1100
25-Oct	886	766	749	772			1100
26-Oct	917	799	770	397			1100
27-Oct	903	780	728	779		775	1100
28-Oct	871	752	735	801		963	1100
29-Oct	847	771	718	819			1100
30-Oct	829	785	764	483			1100
31-Oct	801	764	816	846			1100

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
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%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00
Dec-24	99.39%	0.8	99.24%	0.9	100.00%	0.0	99.18%	1.0	99.96%	0.0	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%	2.4	99.27%	0.9	98.99%	1.3	100.00%	0.0	95.52%	5.6	100.00%	0.00
Apr-25	98.21%	2.15	100.00%	0.00	100.00%	0.00	100.00%	0.00	97.50%	3.00	98.48%	1.82
May-25	99.33%	0.84	100.00%	0.00	97.26%	3.39	100.00%	0.00	100.00%	0.00	100.00%	0.00
Jun-25	98.12%	2.3	100.00%	0.0	100.00%	0.0	100.00%	0.0	99.16%	1.0	100.00%	0.00
Jul-25	97.94%	2.6	100.00%	0.0	100.00%	0.0	100.00%	0.0	98.41%	2.0	100.00%	0.00
Aug-25	97.72%	2.8	100.00%	0.0	99.62%	0.5	99.33%	0.8	98.18%	2.3	100.00%	0.00
Sept-25	96.23%	4.5	100.00%	0.0	100.00%	0.0	100.00%	0.0	100.00%	0.0	99.17%	0.99
Oct-25	100.00%	0.0	100.00%	0.0	99.21%	1.0	100.00%	0.0	100.00%	0.0	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
Oct-24	99.85%	0.0	95.65%	1.3	Off-line	Off-line	98.92%	0.3	93.82%	1.9	99.59%	0.13
Nov-24	99.99%	0.00	96.60%	1.02	Off-line	Off-line	99.17%	0.25	97.46%	0.76	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%	0.30
Jun-25	99.86%	0.0	Off-line	Offline	99.25%	0.22	99.83%	0.1	98.19%	0.5	99.22%	0.24
Jul-25	99.87%	0.0	Off-line	Offline	99.06%	0.29	100.00%	0.0	98.79%	0.4	66.67%	10.33
Aug-25	99.73%	0.1	Off-line	Offline	96.41%	1.11	98.87%	0.4	99.87%	0.0	98.06%	0.60
Sept-25	99.17%	0.2	94.99%	1.5	99.31%	0.21	95.14%	1.5	86.85%	3.9	98.73%	0.38
Oct-25	99.54%	0.1	99.04%	0.3	93.28%	2.08	93.04%	2.2	Off-line	OFF	98.96%	0.3

ADDENDUM TO MONTHLY EMISSIONS REPORT

Particulate Emission Monitors

Availability						
	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Oct-24	99.65%	94.32%	OFF	98.75%	96.51%	98.18%
Nov-24	99%	99%	OFF	99%	94%	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%
Aug-25	99.03%	Exempt	99.71%	99.58%	99.46%	99.17%
Sept-25	99.71%	99.72%	100.00%	99.17%	92.68%	99.83%
Oct-25	97.69%	95.33%	97.78%	99.43%	OFF	99.71%

Gaseous Emission Monitors

Availability												
	Unit 1		Unit 2		Unit 3		Unit 4		Unit 5		Unit 6	
Month	SOx	NOx	SOx	NOx	SOx	NOx	SOx	NOx	SOx	NOx	SOx	NOx
Oct-24	99.8%	100.0%	99.6%	99.7%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	99.7%	99.7%
Nov-24	100.0%	100.0%	100.0%	100.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	99.9%	100.0%
Dec-24	57.5%	57.5%	37.5%	37.5%	0.0%	0.0%	79.7%	79.7%	66.7%	66.7%	65.6%	65.7%
Jan-25	99.3%	99.1%	99.3%	99.3%	0.0%	0.0%	100.0%	96.4%	100.0%	100.0%	100.0%	100.0%
Feb-25	98.2%	100.0%	100.0%	99.6%	86.1%	85.2%	96.0%	96.0%	94.6%	94.6%	96.2%	96.2%
Mar-25	93.8%	99.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Apr-25	98.6%	98.6%	OFF	OFF	98.6%	98.6%	92.6%	91.9%	99.2%	99.2%	99.2%	99.2%
May-25	97.6%	97.6%	OFF	OFF	98.1%	98.1%	97.5%	97.5%	97.8%	97.8%	98.1%	98.1%
Jun-25	99.9%	99.9%	OFF	OFF	96.0%	96.0%	99.8%	99.8%	99.7%	99.6%	99.6%	99.8%
Jul-25	99.7%	99.7%	OFF	OFF	99.7%	99.7%	99.9%	99.9%	99.9%	99.9%	100.0%	100.0%
Aug-25	100.0%	87.9%	100.0%	98.0%	93.6%	87.4%	84.9%	84.9%	96.0%	86.2%	77.9%	93.9%
Sept-25	94.7%	94.7%	94.0%	91.5%	95.0%	95.0%	95.0%	95.0%	98.1%	98.1%	93.5%	93.5%
Oct-25	100.0%	99.7%	99.9%	99.0%	100.0%	100.0%	100.0%	99.6%	OFF	OFF	100.0%	100.0%

Oxygen Monitor Availability						
	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
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%
Aug-25	87.50%	100.00%	85.42%	87.32%	87.98%	95.47%
Sept-25	94.57%	93.90%	94.86%	94.86%	98.06%	93.53%
Oct-25	100.00%	99.73%	99.86%	100.00%	OFF	100.00%

ADDENDUM TO MONTHLY EMISSIONS REPORT

14. EFFICIENCY

ESP Efficiency (%)						
	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Oct-24	99.866%	99.716%	Unit Off	99.669%	99.637%	99.856%
Nov-24	99.84%	99.78%	Unit Off	99.51%	99.66%	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%
Aug-25	99.774%	Off-line	99.833%	99.780%	99.701%	99.668%
Sept-25	99.760%	99.902%	99.874%	99.542%	98.953%	99.904%
Oct-25	99.830%	99.880%	99.840%	99.660%	Unit Off-line	99.900%

15. REMARKS

UNIT	MWLOSS	REASON	ACTUALSTARTDATE	ACTUALENDDATE
1	593	CW leaks repairs	2025/10/01 00:00:00	2025/10/04 12:01:00
1	118	Dust plant standing	2025/10/04 18:00:00	2025/10/05 14:28:00
1	200	Dust plant standing.	2025/10/05 14:28:00	2025/10/05 16:23:00
1	214	Dust plant standing	2025/10/05 16:23:00	2025/10/05 23:58:00
1	213	AM: High ash hopper levels.	2025/10/05 23:58:00	2025/10/08 04:42:00
1	87	High stack emissions.	2025/10/11 19:34:00	2025/10/12 00:35:00
2	593	Planned maintenance	2025/10/03 18:32:00	2025/10/08 17:25:00
3	328	LH PA Fan tripped	2025/10/03 05:12:00	2025/10/03 07:18:00
3	308	LH PA fan tripped-lub oil pump failed.	2025/10/03 07:18:00	2025/10/03 15:37:00
3	310	LH PA fan tripped-lub oil pump failed.	2025/10/03 18:18:00	2025/10/05 02:03:00
3	593	Main turbine FRF filter change over valve repairs	2025/10/11 08:52:00	2025/10/12 14:44:00
3	300	LH PA fan lube oil pump defective.	2025/10/12 17:14:00	2025/10/12 18:42:00
3	240	LH PA FAN NRV repairs.	2025/10/17 02:01:00	2025/10/17 02:52:00
3	33	RHO precip casing repairs	2025/10/19 00:00:00	2025/10/19 23:39:00
3	593	Coal bunkers level low	2025/10/25 22:11:00	2025/10/26 03:27:00
4	593	Boiler tube leak repairs.	2025/10/01 17:42:00	2025/10/06 15:00:00
4	593	Spraywater valves defective	2025/10/07 11:49:00	2025/10/08 12:58:00
4	297	System Generated Ramp Event for Event id : 2108517	2025/10/08 12:58:00	2025/10/08 15:58:00
4	140	High stack emissions.	2025/10/10 00:15:00	2025/10/10 18:42:00
4	42	High stack emissions	2025/10/10 18:42:00	2025/10/11 05:10:00
4	95	High stack emissions	2025/10/11 06:18:00	2025/10/11 15:53:00
4	138	High stack emissions	2025/10/11 15:53:00	2025/10/12 00:00:00
4	100	High stack emissions	2025/10/12 00:00:00	2025/10/12 00:18:00
4	40	RH Inner precip casing repairs	2025/10/12 00:00:00	2025/10/12 23:58:00
4	140	high stack emissions	2025/10/13 03:43:00	2025/10/14 13:35:00
4	593	Turbine tripped,stator coolent buffer tank.	2025/10/14 13:35:00	2025/10/14 15:45:00
4	319	AM: L/H PA Fan lube oil press. low.	2025/10/14 17:53:00	2025/10/15 06:42:00
4	137	High stack emissions	2025/10/15 23:42:00	2025/10/17 17:16:00
4	593	Main turbine over speed test.	2025/10/17 23:41:00	2025/10/18 03:35:00
4	136	High stack emissions	2025/10/18 19:52:00	2025/10/19 04:49:00
4	138	High stack emissions	2025/10/19 16:23:00	2025/10/20 04:26:00
4	267	BFPT & 'A' EFP tripped.	2025/10/20 21:13:00	2025/10/21 08:15:00
4	137	High stack emissions.	2025/10/22 05:36:00	2025/10/23 00:38:00
4	137	High stack emissions	2025/10/24 03:12:00	2025/10/25 04:30:00
4	593	Drum level low.	2025/10/26 11:45:00	2025/10/26 13:55:00
4	593	Delta T's	2025/10/26 14:41:00	2025/10/26 17:19:00
4	328	BFPT fails to start	2025/10/26 18:49:00	2025/10/26 23:03:00
4	138	High stack emissions	2025/10/28 15:26:00	2025/10/28 18:57:00
4	138	High stack emissions	2025/10/28 18:57:00	2025/10/28 19:42:00
4	148	High stack emissions	2025/10/28 19:42:00	2025/10/29 02:10:00
4	223	BFPT FRF pressure low.	2025/10/30 03:38:00	2025/10/30 04:50:00
4	261	BFPT FRF pressure low.	2025/10/30 04:50:00	2025/10/30 20:30:00
4	593	Low drum level.	2025/10/30 20:30:00	2025/10/30 23:27:00
4	272	BFPT LP moeg v/v fails to open and A EFP o.c.	2025/10/31 00:49:00	2025/10/31 00:57:00
4	294	BFPT LP moeg v/v fails to open and A EFP o/c	2025/10/31 00:57:00	2025/10/31 01:30:00
4	193	BFPT LP moeg v/v fails to open and A EFP o/c	2025/10/31 01:30:00	2025/10/31 02:28:00
4	140	BFPT LP moeg v/v fails to open and A EFP o/c	2025/10/31 02:28:00	2025/10/31 23:59:59
5	593	Outage	2025/10/01 00:00:00	2025/10/31 23:59:59
6	217	DHP ash back log recovery	2025/10/01 00:00:00	2025/10/01 06:15:00
6	120	AM: High ash hopper levels.	2025/10/01 06:15:00	2025/10/01 07:18:00
6	118	High stack emissions	2025/10/07 21:03:00	2025/10/07 22:36:00
6	168	High stack emissions	2025/10/07 22:36:00	2025/10/08 01:18:00
6	168	High stack emissions	2025/10/10 19:39:00	2025/10/10 23:17:00
6	168	High stack emissions.	2025/10/11 13:45:00	2025/10/12 05:29:00
6	118	High stack emissions	2025/10/12 05:29:00	2025/10/12 10:13:00
6	168	High stack emissions	2025/10/14 20:59:00	2025/10/15 00:00:00
6	168	clean rapping	2025/10/15 00:00:00	2025/10/15 05:10:00
6	168	Clean rapping.	2025/10/16 00:34:00	2025/10/16 04:52:00
6	593	Main turbine overspeed trip test.	2025/10/18 23:33:00	2025/10/19 00:38:00
6	593	Islanding test	2025/10/24 11:01:00	2025/10/24 11:37:00
6	593	Turbine bearing temps high.	2025/10/28 04:24:00	2025/10/28 09:00:00
6	593	IP cross over gasket replacement	2025/10/28 09:01:00	2025/10/31 23:59:59