



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

Date: 18 March 2026

Enquiries:
S Xulu
Tel +27 16 457 5947

LRP01PLA000_0458/20250513

Dear Mr. Mkhathshwa

LETHABO POWER STATION EMISSION MONTHLY REPORT FOR APRIL 2025

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

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

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

Yours sincerely

pp **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

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

Reference number: **LRP01PLA000_0458/20250513**
Document Type: **Report**
Area of Applicability: **Environment**
Report Date: **May-2025**
Classification: **Controlled Disclosure**

Signatures:

Compiled by:



S Zulu
Boiler Engineer

Date: 18/03/2026

Verified by :



S Xulu
Environmental Officer

Date: 2026/03/18


Reviewed by:



C. Govinden
BPE Manager

Date: 2026/03/20


Reviewed by:



P Malinga
PE Manager

Date: 2026/03/23


Reviewed by:



L Nel
C&I Manager

Date: 2026-03-23


Reviewed by:



M Hariram
Environmental Manager

Date: 2026-03-23

Approved by:



H Sewsunker
Technical Manager

Date: 2026-03-30

Reviewed by:



T. Njapha
Engineering Manager

Date: 2026-03-26

CONTROLLED DISCLOSURE

When downloaded from the database, this document is uncontrolled and it is the responsibility of the user to ensure that it is the same as the authorised revision on the data base

Copyright © 2008, Eskom Generation, Lethabo Power Station

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 Apr-2025
	Coal	Tons	2 000 000	997 058
Fuel Oil	Tons	1 700	1374.270	
Production Rates	Product / By-Product Name	Units	Max Production Capacity Permitted	Indicative Production Rate Apr-2025
	Energy	GWh	2 743.200	1 306.851
	Ash	Tons	770 000	414 277.645
	RE Ash	kg/MWh	not specified	1.195

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
CV Content	MJ/kg	16-24	13.360
Sulphur Content	%	0.6 TO >2.6	0.670
Ash Content	%	21 TO <46	41.550

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	99.818%	SO ₃	95.6%
Unit 2	ESP + SO ₃	Off-line	SO ₃	Off-line
Unit 3	ESP + SO ₃	99.484%	SO ₃	89.5%
Unit 4	ESP + SO ₃	99.784%	SO ₃	85.6%
Unit 5	ESP + SO ₃	99.067%	SO ₃	88.6%
Unit 6	ESP + SO ₃	99.877%	SO ₃	99.8%

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	98.7		98.6	98.7
Unit 2	Off	Off	Off	Off
Unit 3	99.5	98.6	98.6	98.4
Unit 4	100.0	92.6	91.9	92.6
Unit 5	96.1	99.2	99.2	99.0
Unit 6	99.1	99.2	99.2	99.0

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 April 2025

Associated Unit/Stack	PM (tons)	SO ₂ (tons)	NO _x (tons)
Unit 1	179.3	2 998	1 452
Unit 2	Off	Off	Off
Unit 3	375.8	3 184	1 173
Unit 4	69.1	1 356	540
Unit 5	839.6	3 550	1 346
Unit 6	98.1	3 576	1 600
SUM	1 561.91	14 663	6 110

Table 6.2: PM AEL Daily Compliance - April 2025

Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Mnth Avg (mg/Nm ³)
Unit 1	0	0	0	0	0	108.0
Unit 2	Off	Off	Off	Off	Off	Off
Unit 3	0	0	0	0	0	254.9
Unit 4	0	0	0	0	0	124.8
Unit 5	0	0	0	0	0	395.3
Unit 6	0	0	0	0	0	54.4
SUM	0	0	0	0	0	

Table 6.3: SO₂ AEL Daily Compliance - April 2025

Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Mnth Avg (mg/Nm ³)
Unit 1	0	0	0	0	0	1 722.9
Unit 2	Off	Off	Off	Off	Off	Off
Unit 3	0	0	0	0	0	1 782.3
Unit 4	0	0	0	0	0	1 899.2
Unit 5	0	0	0	0	0	1 738.9
Unit 6	0	0	0	0	0	1 920.2
SUM	0	0	0	0	0	

Table 6.4: NO_x AEL Daily Compliance - April 2025

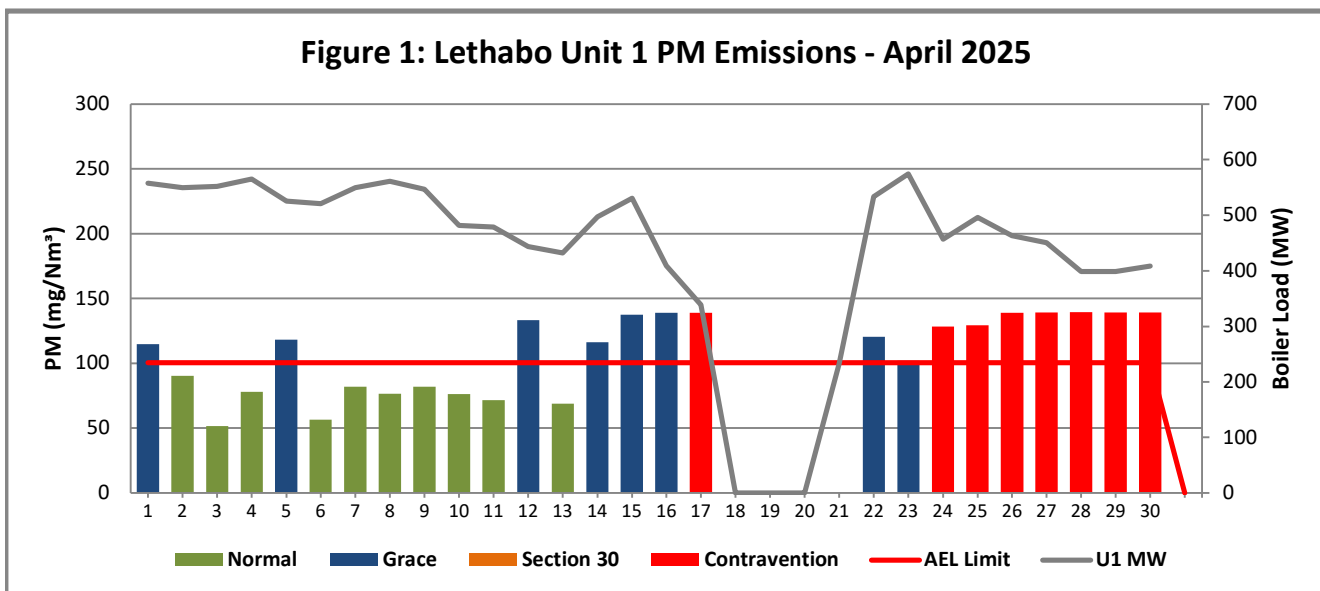
Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Mnth Avg (mg/Nm ³)
Unit 1	0	0	0	0	0	831.1
Unit 2	Off	Off	Off	Off	Off	Off
Unit 3	0	0	0	0	0	647.9
Unit 4	0	0	0	0	0	712.2
Unit 5	0	0	0	0	0	657.1
Unit 6	0	0	0	0	0	852.4
SUM	0	0	0	0	0	

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

Figure 1: Lethabo Unit 1 PM Emissions - April 2025



Reasons:	
Date	Description
01-Apr	Poor ESP casing performance.SO3 leakage.
05-Apr	Poor ESP casing performance.SO3 leakage.High hopper levels.
12-Apr	Poor ESP casing performance.
14-Apr	Poor ESP casing performance.RHI ESP casing outage.
15-Apr	High hopper levels.Poor ESP casing performance.DHP issues.SO3 plant tripped.
16-Apr	High hopper levels.Poor ESP casing performance.DHP issues.
17-Apr	High hopper levels.Poor ESP casing performance.DHP issues.
22-Apr	Unit 1 synchronised on 2025/04/21 @ 12:07 and emissions need to be below the limit by 2025/04/24 @ 12:07 and continue being below on the 2025/04/25.
23-Apr	Unit 1 synchronised on 2025/04/21 @ 12:07 and emissions need to be below the limit by 2025/04/24 @ 12:07 and continue being below on the 2025/04/25.
24-Apr	Unit 1 synchronised on 2025/04/21 @ 12:07 and emissions need to be below the limit by 2025/04/24 @ 12:07 and continue being below on the 2025/04/25.
25-Apr	Unit 1 synchronised on 2025/04/21 @ 12:07 and emissions need to be below the limit by 2025/04/24 @ 12:07 and continue being below on the 2025/04/25.
26-Apr	Unit 1 synchronised on 2025/04/21 @ 12:07 and emissions need to be below the limit by 2025/04/24 @ 12:07 and continue being below on the 2025/04/25.
27-Apr	Poor ESP casing performance.High hopper levels.DHP issues.
28-Apr	Poor ESP casing performance.High hopper levels.DHP issues.
29-Apr	Poor ESP casing performance.High hopper levels.DHP issues.
30-Apr	Poor ESP casing performance.High hopper levels.DHP issues.

Figure 2: Lethabo Unit 2 PM Emissions - April 2025

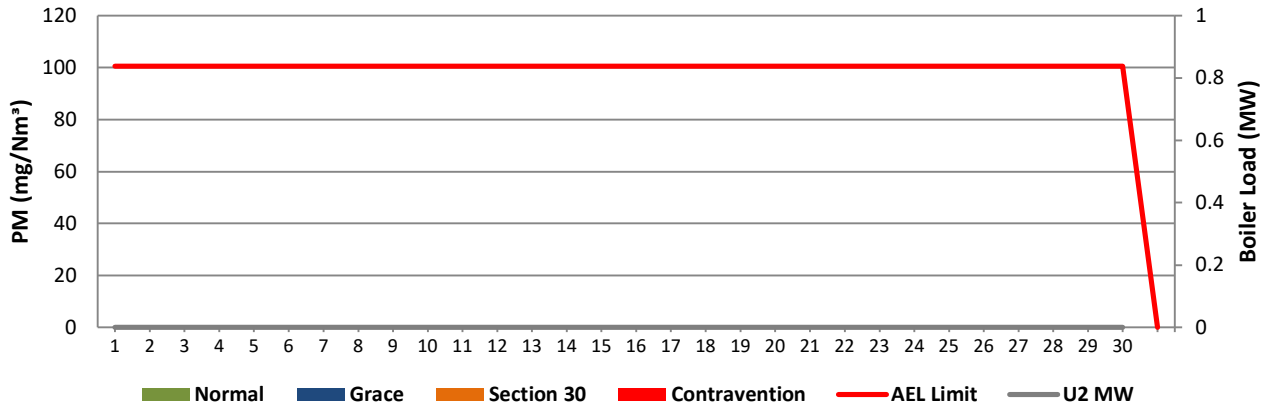
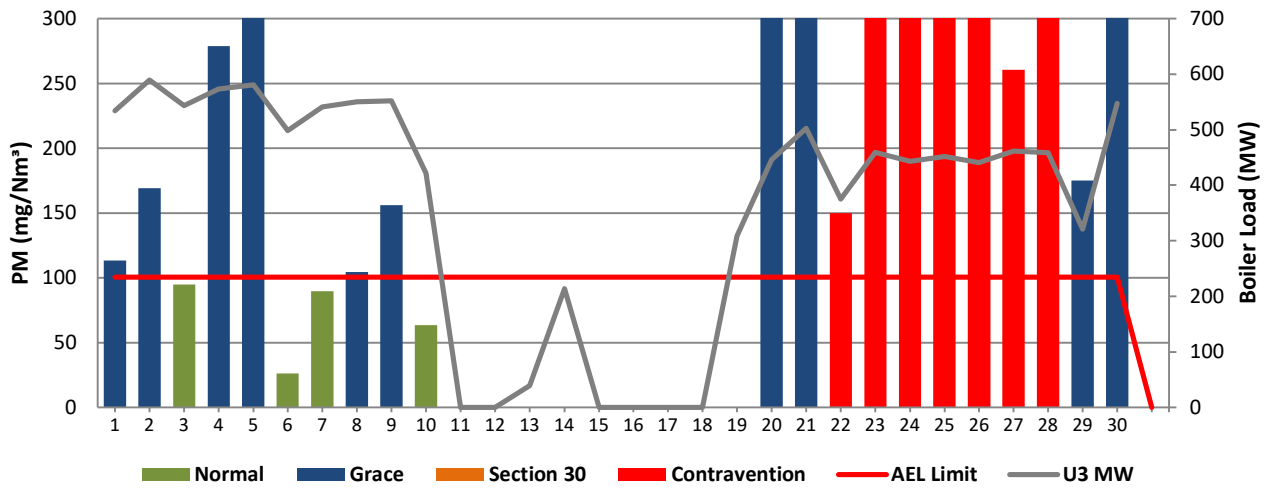
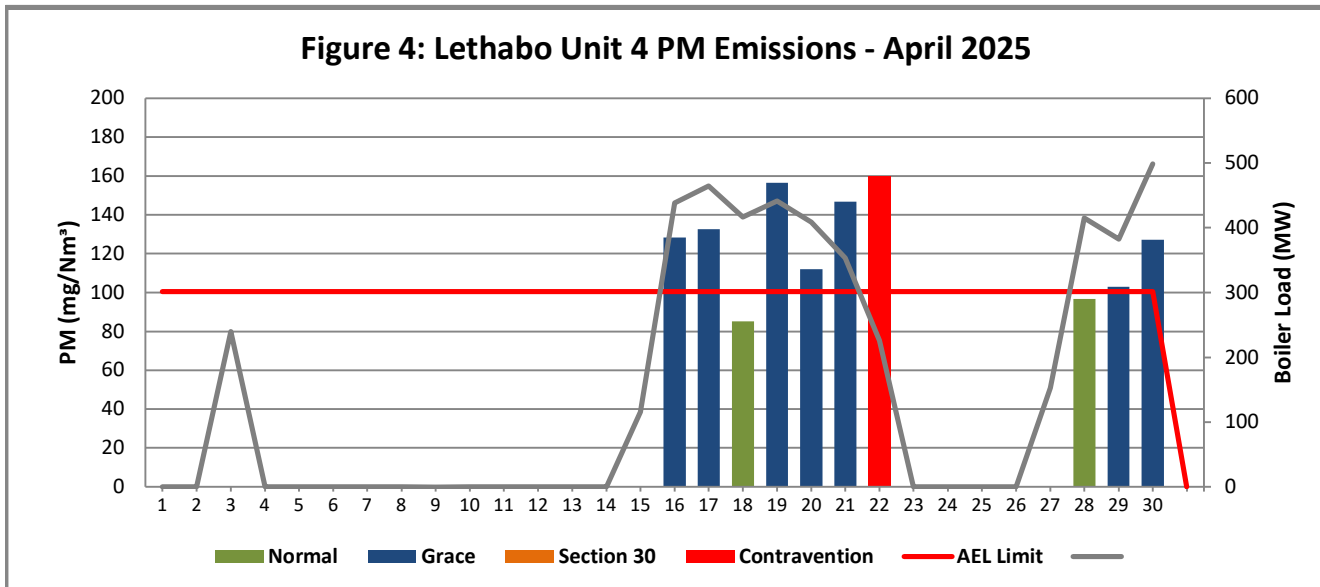


Figure 3: Lethabo Unit 3 PM Emissions - April 2025



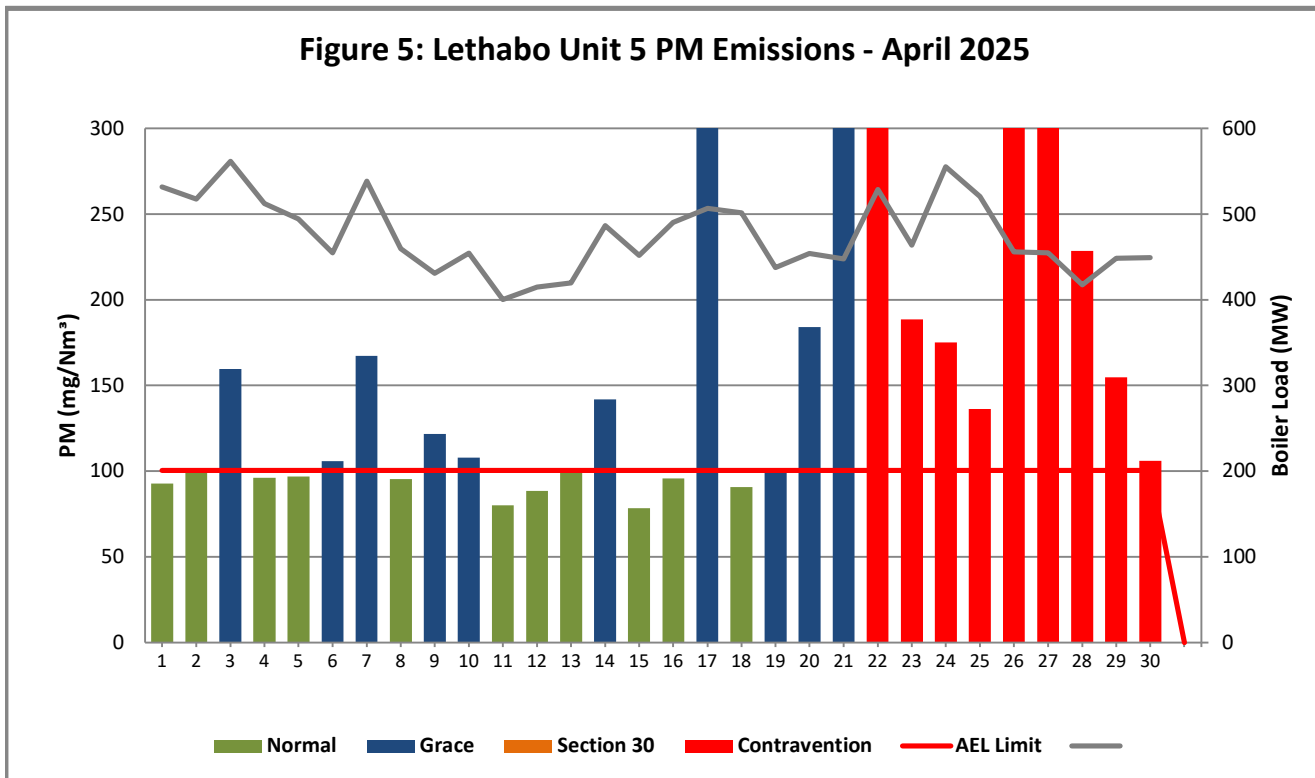
Reasons:	
Date	Description
01-Apr	Poor ESP casing performance.High hopper levels.DHP issues.
02-Apr	Poor ESP casing performance.High hopper levels.DHP issues.
04-Apr	SO3 Plant tripped.Poor ESP casings performance.
05-Apr	SO3 Plant tripped.Poor ESP casings performance.
08-Apr	Poor ESP casing performance.
09-Apr	Poor ESP casing performance.Clean rapping brought forward.
20-Apr	Unit synchronised on 2025/04/19 @ 06:43 and emissions need to be below the limit by 2025/04/22 @ 06:43 and continue being below on the 2025/04/23.
21-Apr	Unit synchronised on 2025/04/19 @ 06:43 and emissions need to be below the limit by 2025/04/22 @ 06:43 and
22-Apr	Unit synchronised on 2025/04/19 @ 06:43 and emissions need to be below the limit by 2025/04/22 @ 06:43 and
23-Apr	Unit synchronised on 2025/04/19 @ 06:43 and emissions need to be below the limit by 2025/04/22 @ 06:43 and continue being below on the 2025/04/23.
24-Apr	Poor ESP casing performance.SO3 plant tripped.DHP issues.
25-Apr	Poor ESP casing performance.SO3 plant tripped.DHP issues.
26-Apr	Poor ESP casing performance.High hopper levels.DHP issues.SO3 plant issues.
27-Apr	Poor ESP casing performance.High hopper levels.DHP issues.
28-Apr	Poor ESP casing performance.High hopper levels.DHP issues.
29-Apr	Poor ESP casing performance.
30-Apr	Boiler tripped due to LH Hydrastep.Poor ESP casing performance.High hopper levels.

Figure 4: Lethabo Unit 4 PM Emissions - April 2025



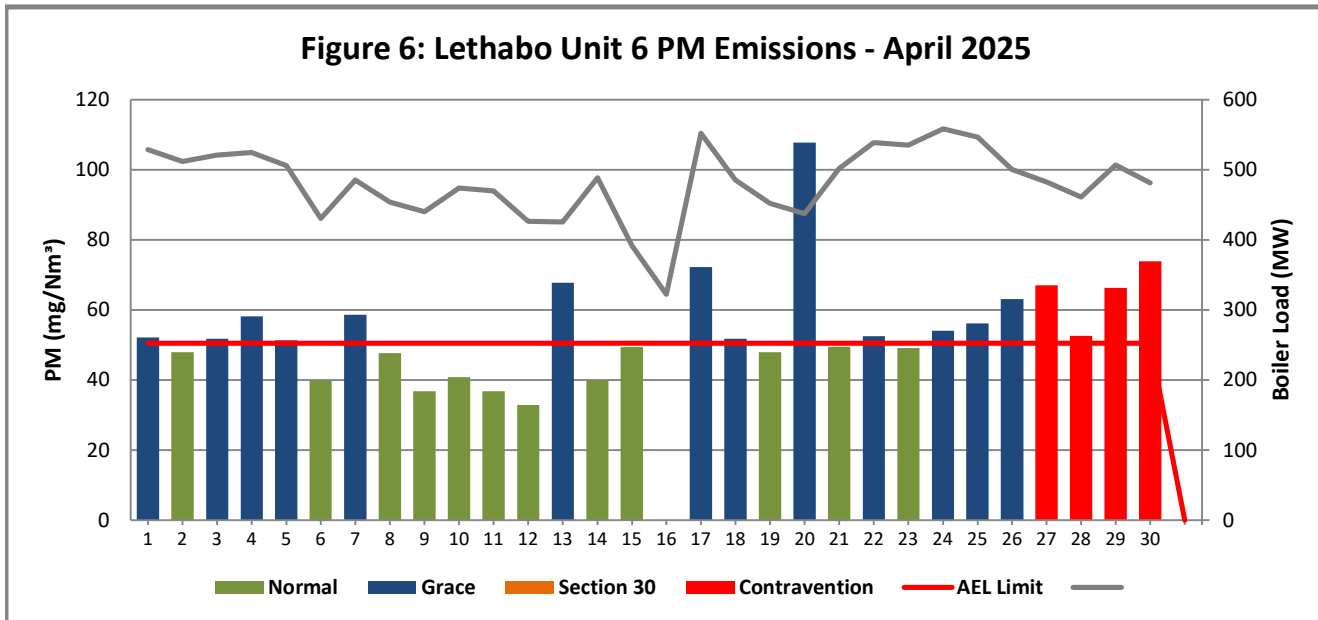
Reasons:	
Date	Description
16-Apr	Unit 4 start up conditions after BTL.
17-Apr	Unit 4 start up conditions after BTL.
19-Apr	Unit 4 start up conditions after BTL.
20-Apr	Poor ESP casing performance.Manual rapping done.
21-Apr	Poor ESP casing performance.DHP issues.
22-Apr	Poor ESP casing performance.LHO ESP casing outage.Unit load below 350 MW.
29-Apr	Unit running at low loads (No abatement plants).
30-Apr	Precip fields off due to low loads (340MW)

Figure 5: Lethabo Unit 5 PM Emissions - April 2025



Reasons:	
Date	Description
03-Apr	Poor ESP casing performance.High hopper levels.
06-Apr	Poor ESP casing performance.High hopper levels.
07-Apr	Poor ESP casing performance.SO3 Plant tripped.Monitor off due to electrical board issues.
09-Apr	Poor ESP casings performance.Clean rapping brought forward.
10-Apr	Poor ESP casing performance.Manual rapping done.
14-Apr	Poor ESP casing performance.
17-Apr	Poor ESP casing performance.Manual rapping done.
19-Apr	Poor ESP casing performance
20-Apr	Poor ESP casing performance.SO3 plant cooling air fan off for repairs.
21-Apr	Poor ESP casing performance.SO3 plant cooling air fan off for repairs.
22-Apr	Poor ESP casing performance.SO3 plant cooling air fan off for repairs.SO3 plant Air blower repairs.
23-Apr	Poor ESP casing performance.SO3 plant Air blower repairs.Manual rapping done.
24-Apr	Poor ESP casing performance.SO3 plant Air blower repairs.SO3 plant sulphur flow off.
25-Apr	Poor ESP casing performance.Clean rapping brought forward.
26-Apr	Poor ESP casing performance.
27-Apr	Poor ESP casing performance.LHI ESP casing on cooling for inspection and repairs.
28-Apr	Poor ESP casing performance.LHI ESP casing on cooling for inspection and repairs.

29-Apr	Poor ESP casing performance.LHI ESP casing on cooling for inspection and repairs.
30-Apr	Poor ESP casing performance.High hopper levels.



Reasons:	
Date	Description
01-Apr	Higher hopper levels experienced causing poor casing performance
03-Apr	Higher hopper levels experienced causing poor casing performance
04-Apr	Higher hopper levels experienced causing poor casing performance
05-Apr	Higher hopper levels experienced causing poor casing performance
07-Apr	Higher hopper levels experienced causing poor casing performance
13-Apr	LHO casing on PTW due to ash leaking
17-Apr	Unit start-up
18-Apr	Unit start-up
20-Apr	LHI ESP casing outage.
22-Apr	ESP Poor Performance
24-Apr	ESP Poor Performance
25-Apr	ESP Optimisation
26-Apr	ESP Optimisation
27-Apr	ESP Optimisation
28-Apr	ESP Optimisation
29-Apr	ESP Optimisation
30-Apr	No abatement plant available after unit 6 shut down for maintenance.

Figure 7: Lethabo Unit 1 SO₂ Emissions - April 2025

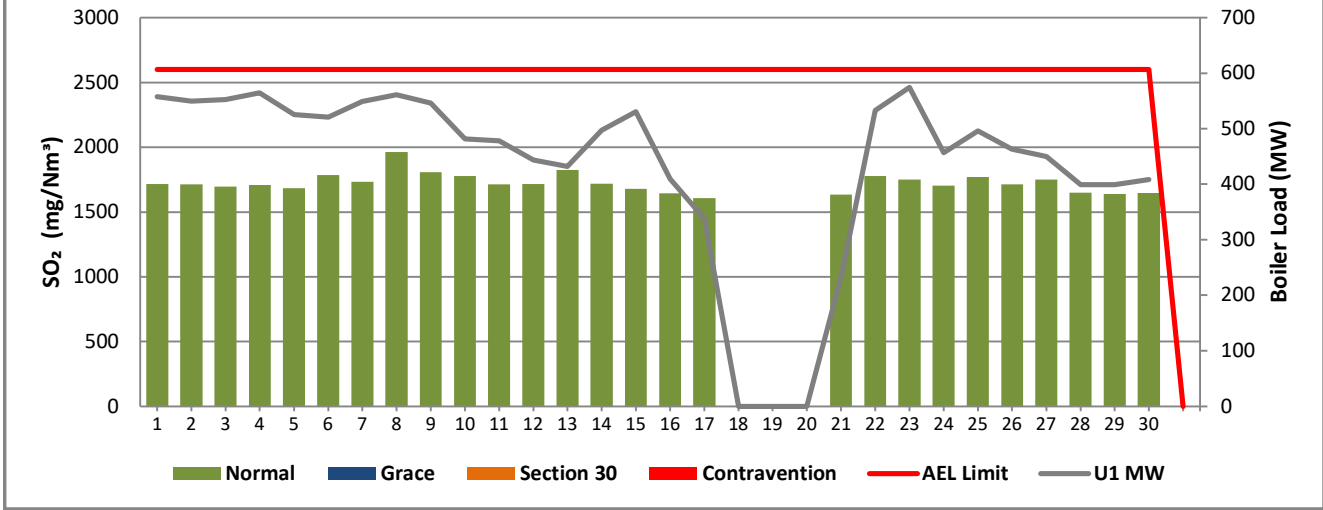


Figure 8: Lethabo Unit 2 SO₂ Emissions - April 2025

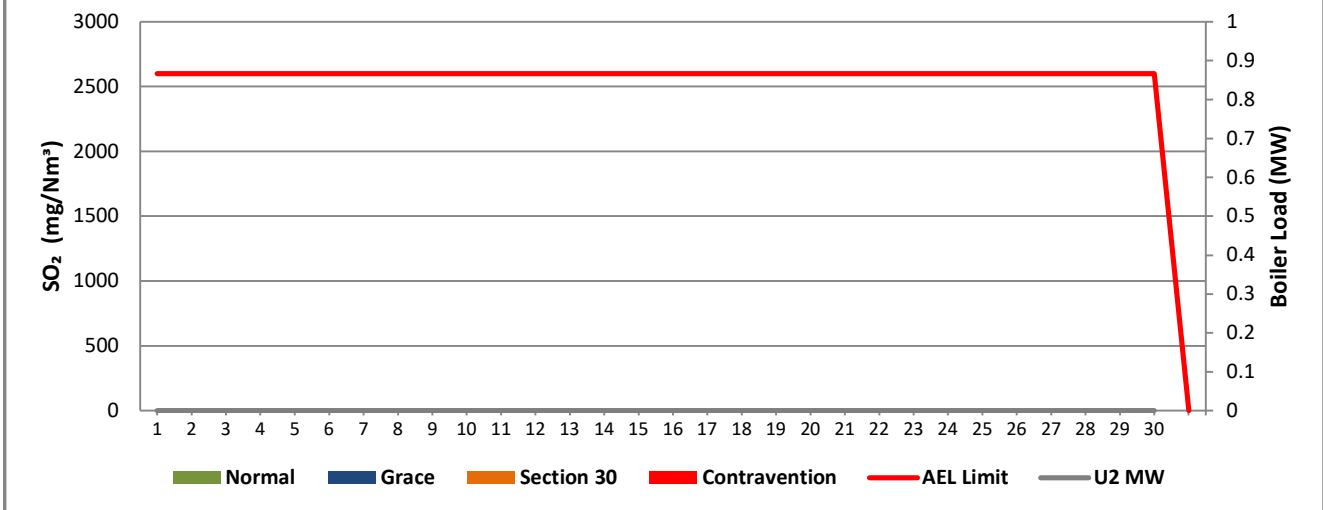


Figure 9: Lethabo Unit 3 SO₂ Emissions - April 2025

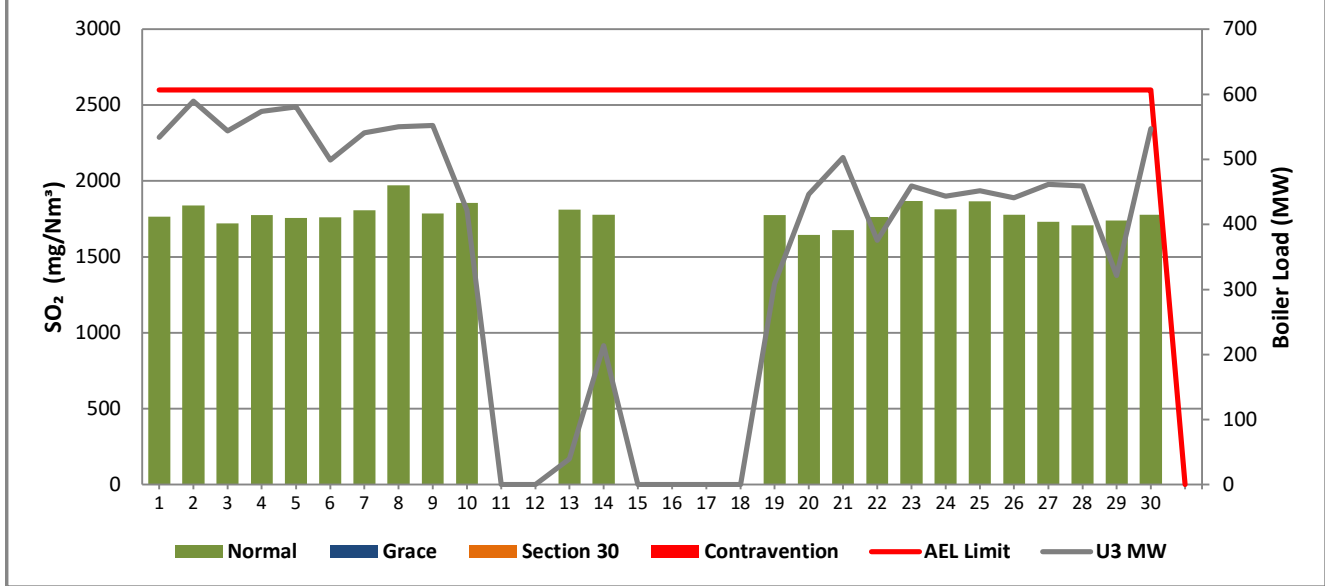


Figure 10: Lethabo Unit 4 SO₂ Emissions - April 2025

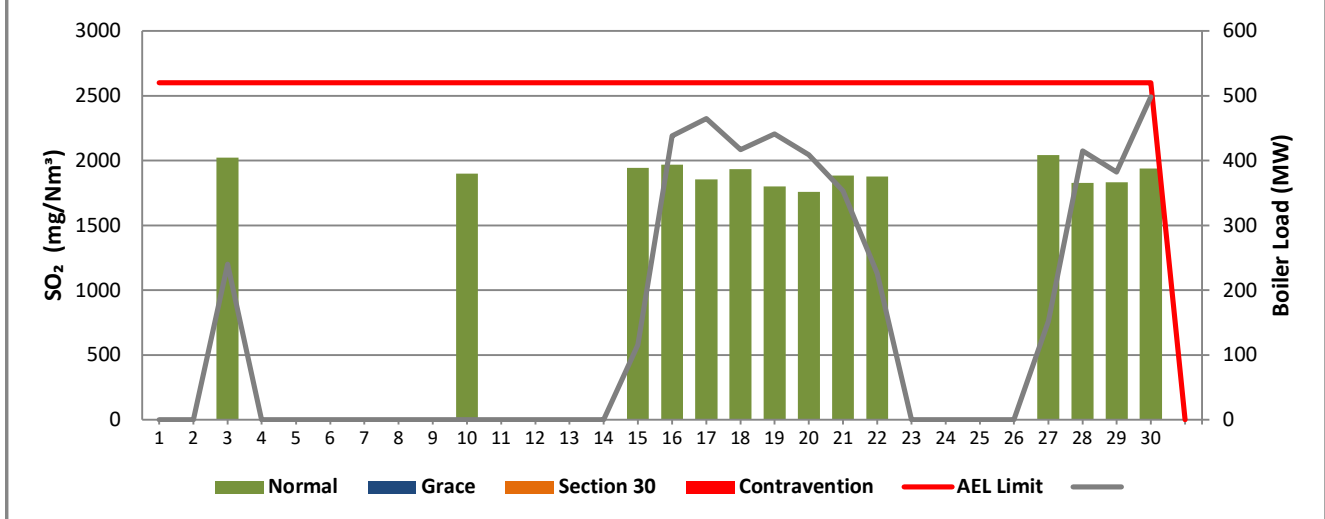


Figure 11: Lethabo Unit 5 SO₂ Emissions - April 2025

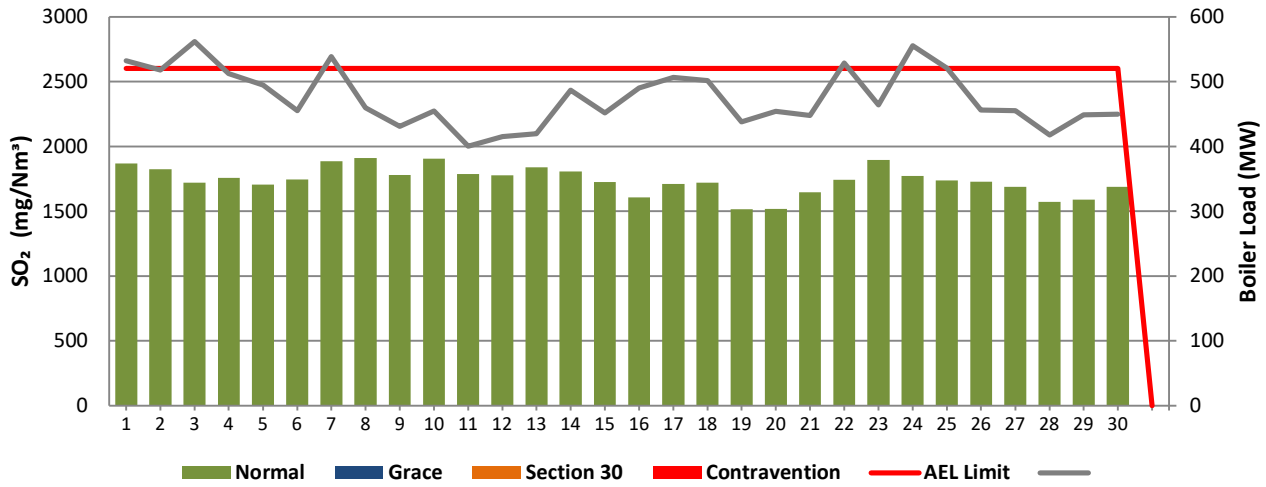


Figure 12: Lethabo Unit 6 SO₂ Emissions - April 2025

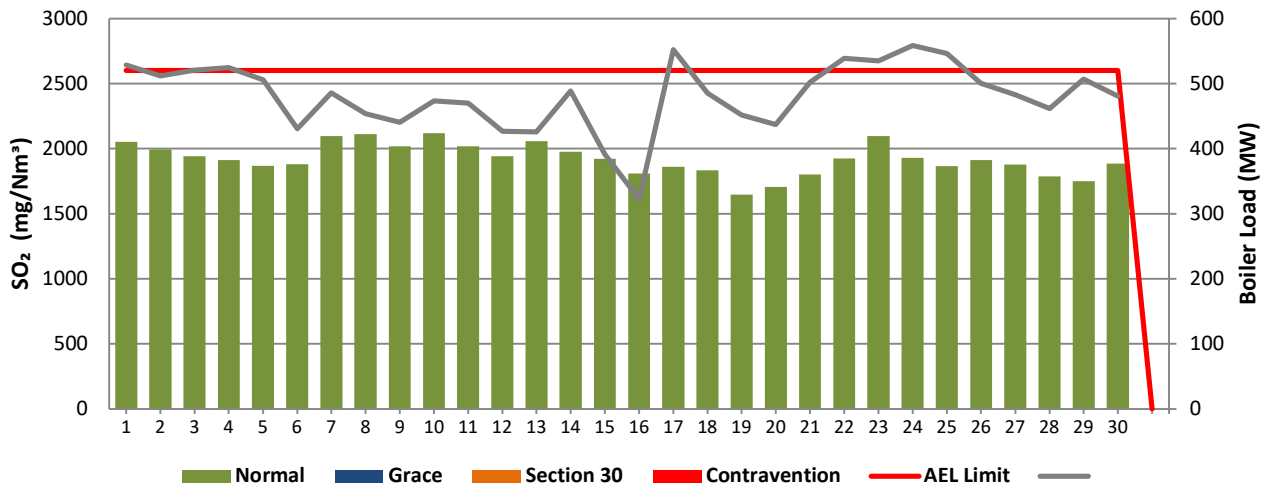


Figure 13: Lethabo Unit 1 NO_x Emissions - April 2025

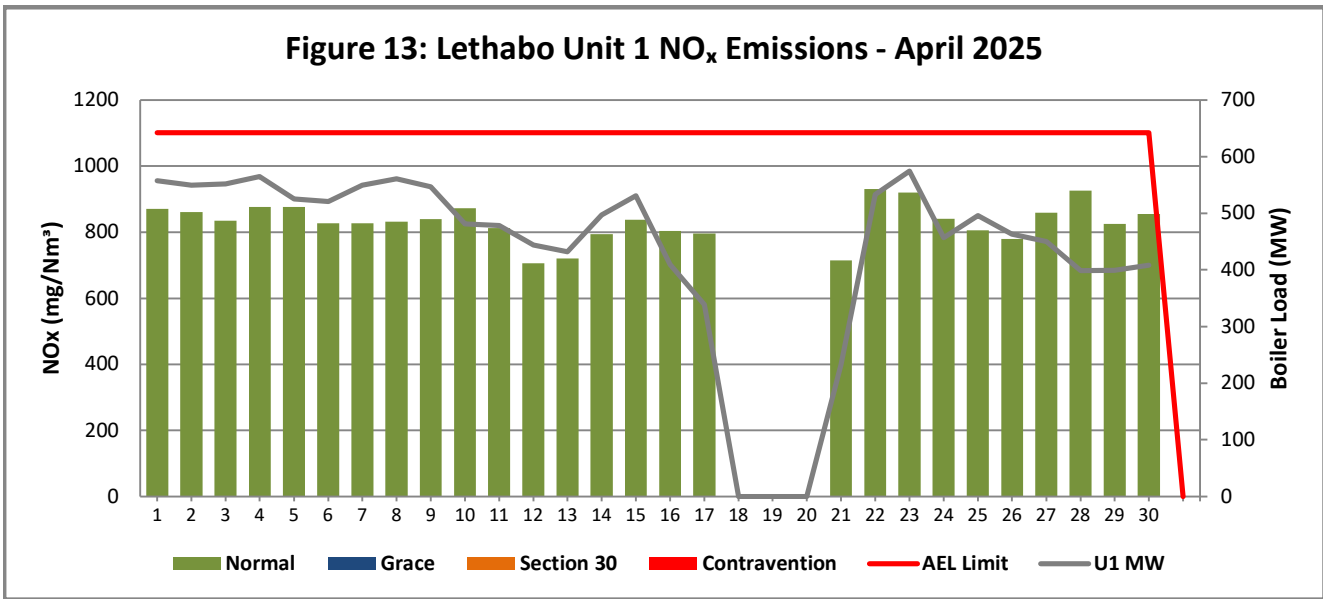


Figure 14: Lethabo Unit 2 NO_x Emissions - April 2025

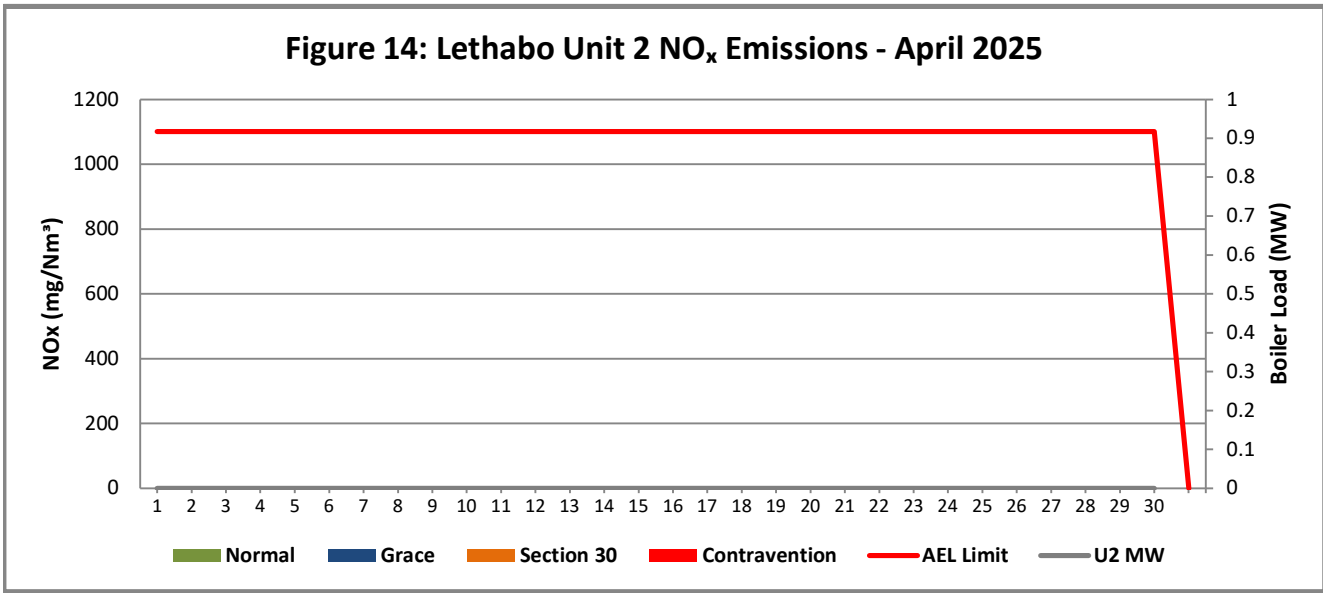


Figure 15: Lethabo Unit 3 NO_x Emissions - April 2025

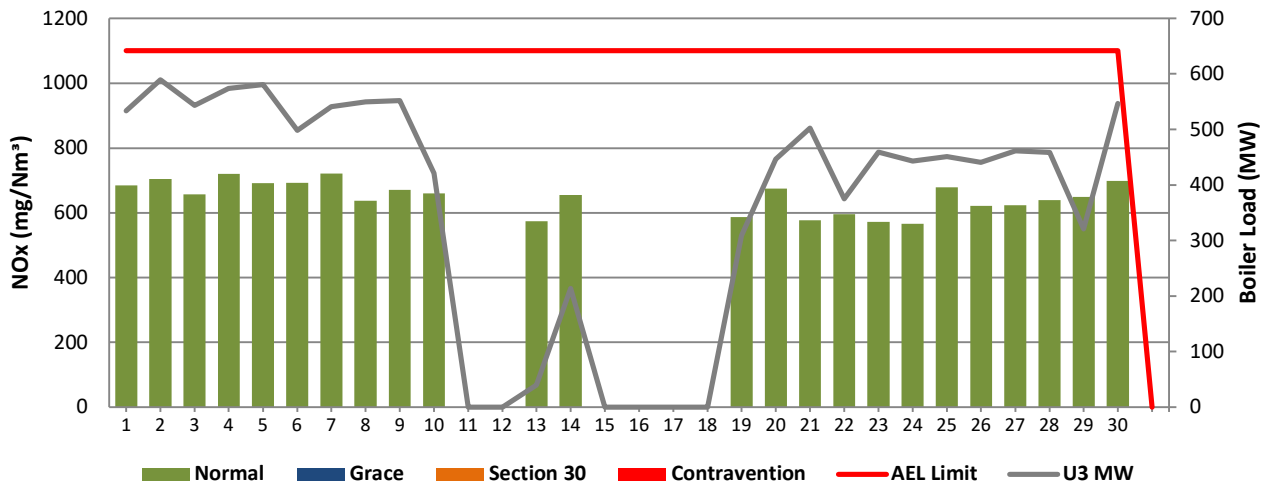


Figure 16: Lethabo Unit 4 NO_x Emissions - April 2025

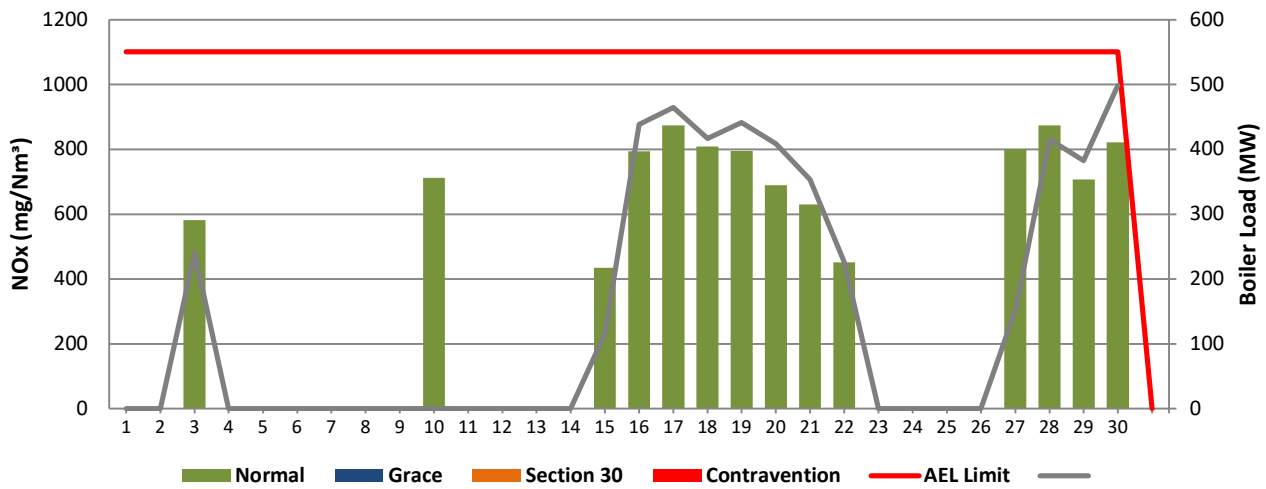


Figure 17: Lethabo Unit 5 NO_x Emissions - April 2025

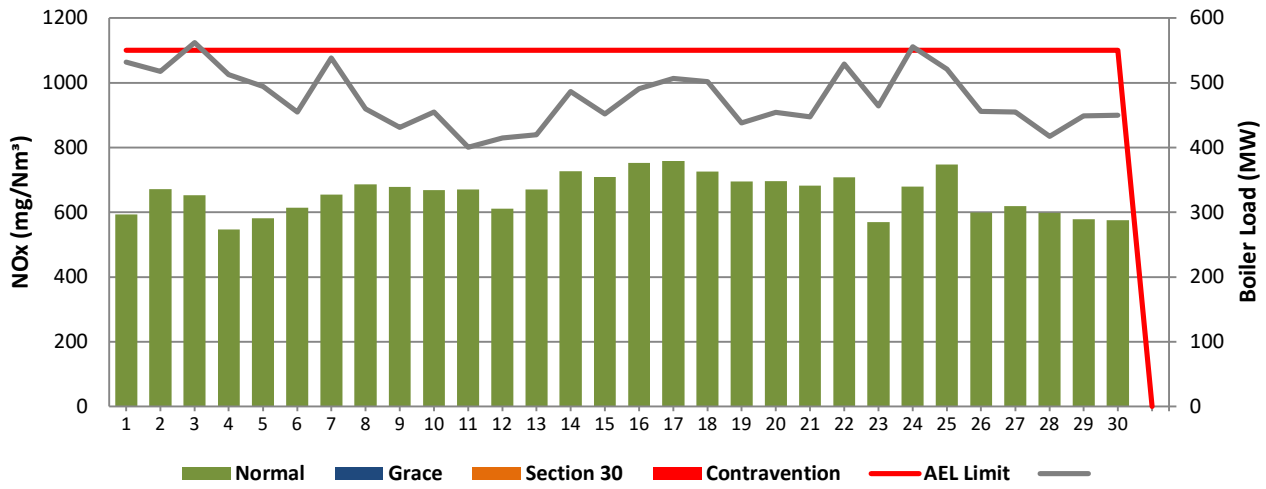
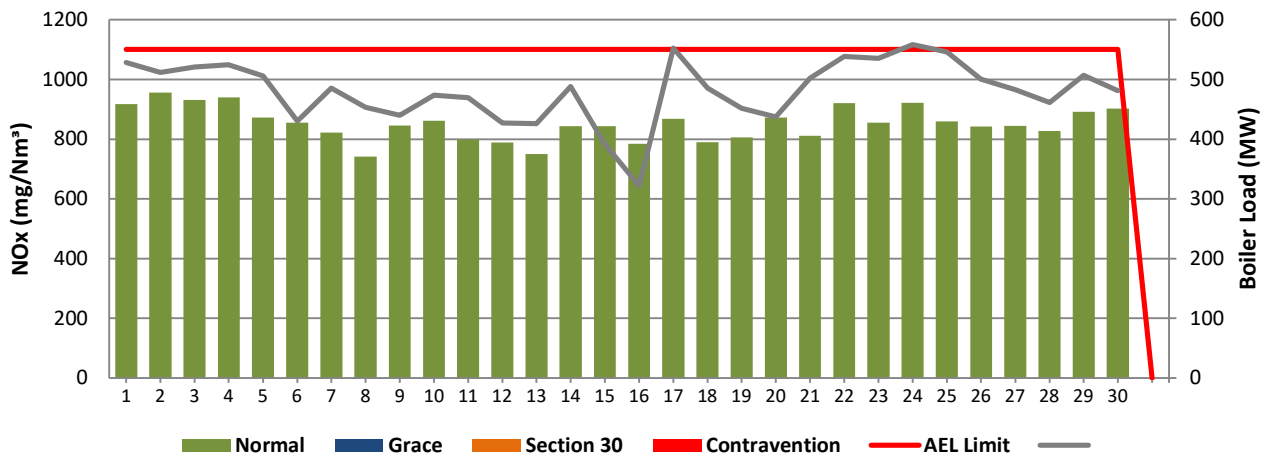


Figure 18: Lethabo Unit 6 NO_x Emissions - April 2025



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

See Events sheet

8. MAINTENANCE

Unit 1				
Beginning of	2025/04/04 23:58:00	2025/04/12 00:24:00	2025/04/26 00:00:00	
Reason for Maintenance	RHI Precip. casing repairs.	RHI casing repairs.	LHI precip casing repairs	
End (Time):	2025/04/05 04:12:00	2025/04/13 00:00:00	2025/04/26 23:42:00	
Duration	4:14:00	23:36:00	23:42:00	

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

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

Unit 4				
Beginning of				
Reason for Maintenance				
End (Time):				
Duration				

Unit 5				
Beginning of	2025/04/26 00:00:00			
Reason for Maintenance	LHI precip casing repairs			
End (Time):	2025/04/28 23:59:00			
Duration	71:59:00			

Unit 6				
Beginning of	2025/04/13 00:00:00	2025/04/13 17:32:00	2025/04/20 00:00:00	
Reason for Maintenance	LHO casing repairs	LHO precip casing repairs	LHI precip casing repairs	
End (Time):	2025/04/13 17:32:00	2025/04/13 20:40:00	2025/04/20 23:05:00	
Duration	17:32:00	3:08:00	23:05:00	

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 4 Monitor Reliability

21/04/2025 - 22/04/2025: PM monitor Reliability low due to monitor max out.

unit 1 Monitor Reliability

15/04/2025 - 30/04/2025: PM monitor Reliability low due to monitor max out.

Unit 5 Monitor Reliability

06/04/2025: PM monitor Reliability low due to electrical board issues.

Unit 5 Monitor Reliability

22/04/2025: PM monitor Reliability low due to monitor max out.

Unit 6 Monitor Reliability

06/04/2025: PM monitor Reliability low due to electrical board issues.

Unit 5 & 6 Gaseous Monitor Reliability

06/04/2025: Gas Monitor Reliability low (Monitor off due to electrical board issues)

Unit 1 Gaseous Monitor Reliability

23/04/2025: Gas Monitor Reliability low (Loss of power to the stack)

Unit 1

On the 24/04/2025 to 30/04/2025, unit 1 registered a non-compliance as the unit exceeded for greater than 72 hrs light up conditions due to poor ESP performance, high hopper levels and DHP issues.

Unit 3

On the 22/04/2025 to 30/04/2025, unit 3 registered a non-compliance as the unit exceeded for greater than 72 hrs light up conditions due to poor ESP performance, high hopper levels, DHP issues.

Unit 4

on the 22/04/2025, unit 4 registered a non-compliance as the unit exceeded for greater than 72 hrs upset conditions due to unit running at low loads (No abatement plants) and unit shut down for BTL.

Unit 5

On 22/04/2025, unit 5 registered a non-compliance as the unit exceeded for greater than 72 hrs upset conditions due to poor ESP casing performance, SO3 plant Air blower repairs, manual rapping performed.

Unit 6

On 27/04/2025, unit 6 registered a non-compliance as the unit exceeded for greater than 72 hrs upset conditions due to poor ESP casing performance.

ADDENDUM TO MONTHLY EMISSIONS REPORT

Final SOx Concentration (mg/Nm ³)							
Date	U1	U2	U3	U4	U5	U6	Limit
01-Apr	1716		1765		1869	2052	2600
02-Apr	1713		1837		1825	1994	2600
03-Apr	1697		1721	2025	1720	1943	2600
04-Apr	1708		1777		1758	1913	2600
05-Apr	1686		1757		1705	1869	2600
06-Apr	1785		1760		1746	1881	2600
07-Apr	1733		1805		1886	2097	2600
08-Apr	1962		1973		1911	2111	2600
09-Apr	1808		1787		1779	2019	2600
10-Apr	1778		1856	1899	1907	2119	2600
11-Apr	1713				1787	2018	2600
12-Apr	1718				1775	1943	2600
13-Apr	1823		1813		1839	2059	2600
14-Apr	1718		1778		1806	1976	2600
15-Apr	1679			1946	1725	1922	2600
16-Apr	1644			1969	1608	1808	2600
17-Apr	1608			1854	1712	1861	2600
18-Apr				1933	1721	1835	2600
19-Apr			1776	1800	1517	1648	2600
20-Apr			1646	1759	1519	1705	2600
21-Apr	1634		1678	1884	1646	1802	2600
22-Apr	1776		1762	1877	1742	1925	2600
23-Apr	1749		1867		1893	2098	2600
24-Apr	1704		1815		1772	1930	2600
25-Apr	1770		1866		1736	1864	2600
26-Apr	1713		1778		1727	1913	2600
27-Apr	1750		1732	2042	1687	1877	2600
28-Apr	1649		1709	1829	1572	1790	2600
29-Apr	1637		1738	1834	1590	1749	2600
30-Apr	1648		1779	1938	1688	1885	2600
00-Jan	0	0	0	0	0	0	2600

ADDENDUM TO MONTHLY EMISSIONS REPORT

Final NOx Concentration (mg/Nm ³)							
Date	U1	U2	U3	U4	U5	U6	Limit
01-Apr	870		685		593	918	1100
02-Apr	860		704		671	956	1100
03-Apr	834		657	581	652	932	1100
04-Apr	876		721		546	940	1100
05-Apr	876		692		582	872	1100
06-Apr	827		693		614	855	1100
07-Apr	827		721		654	822	1100
08-Apr	832		637		686	742	1100
09-Apr	839		671		678	846	1100
10-Apr	872		660	712	668	862	1100
11-Apr	813				670	799	1100
12-Apr	706				611	790	1100
13-Apr	720		574		670	751	1100
14-Apr	795		655		726	844	1100
15-Apr	837			435	709	844	1100
16-Apr	803			794	752	785	1100
17-Apr	796			874	758	869	1100
18-Apr				808	726	790	1100
19-Apr			587	795	695	806	1100
20-Apr			675	689	696	873	1100
21-Apr	714		577	631	682	811	1100
22-Apr	931		595	451	708	920	1100
23-Apr	920		572		569	856	1100
24-Apr	840		566		679	922	1100
25-Apr	805		678		747	860	1100
26-Apr	779		621		600	843	1100
27-Apr	859		623	799	619	845	1100
28-Apr	925		639	874	598	828	1100
29-Apr	825		649	707	578	892	1100
30-Apr	855		698	821	575	902	1100
00-Jan	0	0	0	0	0	0	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
Apr-24	100.00%	0.0	100.00%	0.0	100.00%	0.0	99.89%	0.1	97.43%	3.1	100.00%	0.00%
May-24	100.00%	0.0	97.91%	2.6	100.00%	0.0	97.67%	2.9	99.38%	0.8	100.00%	0.00%
Jun-24	100.00%	0.00	99.17%	1.00	98.09%	2.29	98.32%	2.01	#####	0.00	100.00%	0.00
Jul-24	100.00%	0.0	100.00%	0.0	100.00%	0.0	100.00%	0.0	#####	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%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00
Dec-24	99.39%	0.76	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%	0.0
Feb-25	99.18%	0.9	99.84%	0.2	100.00%	0.0	100.00%	0.0	#####	0.0	98.90%	1.2
Mar-25	98.08%	2.4	99.27%	0.9	98.99%	1.3	100.00%	0.0	95.52%	5.6	100.00%	0.0
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

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
Apr-24	99.46%	0.2	93.92%	1.8	99.58%	0.1	100.00%	0.0	#####	0.0	Off-line	Off-line
May-24	99.45%	0.2	99.87%	0.0	96.37%	1.1	99.87%	0.0	#####	0.0	Off-line	Off-line
Jun-24	97.08%	0.88	69.03%	9.29	100.00%	0.00	99.34%	0.20	99.77%	0.07	Off-line	Off-line
Jul-24	98.30%	0.5	41.43%	18.2	99.73%	0.1	99.58%	0.1	98.39%	0.5	53.66%	14.37
Aug-24	99.46%	0.2	91.70%	2.6	100.00%	0.0	97.98%	0.6	99.59%	0.1	96.68%	1.03
Sept-24	100.00%	0.0	89.45%	3.2	99.33%	0.20	99.84%	0.0	99.58%	0.1	99.92%	0.02
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%	0.0	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%	1.8
Feb-25	91.37%	2.4	95.28%	1.3	67.36%	9.14	95.45%	1.3	91.35%	2.4	97.77%	0.6
Mar-25	98.52%	0.5	96.36%	1.1	85.05%	4.63	98.61%	0.4	99.91%	0.0	88.42%	3.6
Apr-25	95.63%	1.3	Off-line	#VALUE!	89.52%	3.15	85.62%	4.3	88.61%	3.4	99.78%	0.1

ADDENDUM TO MONTHLY EMISSIONS REPORT

Particulate Emission Monitors

Availability						
	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Apr-24	99.68%	92.71%	97.22%	94.03%	98.06%	OFF
May-24	98.93%	93.01%	97.45%	91.88%	95.47%	OFF
Jun-24	98%	87%	97%	97%	99%	OFF
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	99.65%	94.32%	OFF	98.75%	96.51%	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	98.70%	OFF	99.50%	90.90%	96.10%	99.10%

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
Apr-24	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
May-24	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	98.8%	98.8%	98.4%	98.4%	OFF	OFF
Jun-24	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	OFF	OFF
Jul-24	99.7%	99.9%	100.0%	100.0%	100.0%	100.0%	99.5%	99.7%	100.0%	100.0%	73.4%	70.8%
Aug-24	99.9%	100.0%	99.8%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Sept-24	100.0%	100.0%	100.0%	99.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
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%	96.1%	99.2%	99.2%	99.2%

Oxygen Monitor Availability						
	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Apr-24	100.00%	100.00%	99.86%	100.00%	100.00%	OFF
May-24	99.97%	100.00%	99.98%	98.79%	98.31%	OFF
Jun-24	100.00%	100.00%	100.00%	99.55%	36.78%	OFF
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%

ADDENDUM TO MONTHLY EMISSIONS REPORT

14. EFFICIENCY

	ESP Efficiency (%)					
	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Apr-24	100.000%	100.000%	99.861%	100.000%	100.000%	OFF
May-24	99.970%	100.000%	99.979%	98.790%	98.313%	OFF
Jun-24	100.00%	100.00%	100.00%	99.55%	36.78%	OFF
Jul-24	99.885%	100.000%	100.000%	100.000%	99.840%	50.170%
Aug-24	99.866%	99.802%	99.866%	99.866%	100.000%	99.476%
Sept-24	100.000%	99.899%	100.000%	99.856%	99.722%	99.702%
Oct-24	99.228%	99.546%	0.000%	99.866%	94.892%	99.280%
Nov-24	100.000%	100.000%	0.000%	99.861%	84.886%	99.147%
Dec-24	57.500%	37.500%	0.000%	79.710%	66.667%	65.726%
Jan-25	99.554%	99.500%	0.000%	98.397%	99.432%	82.471%
Feb-25	99.702%	99.242%	85.188%	95.833%	94.391%	60.938%
Mar-25	100.000%	100.000%	100.000%	100.000%	99.812%	99.866%
Apr-25	98.818%	OFF	98.484%	98.074%	99.067%	99.877%

15. REMARKS

UNIT	MWLOSS	REASON	ACTUALSTARTDATE	ACTUALENDDATE
1	80	AM: RH Precip. casing repairs.	2025/04/04 23:58:00	2025/04/05 04:12:00
1	77	manual rapping	2025/04/07 21:10:00	2025/04/07 22:39:00
1	80	RH inner casing repairs.	2025/04/12 00:24:00	2025/04/13 00:00:00
1	100	High dust hopper levels	2025/04/15 20:44:00	2025/04/16 03:43:00
1	180	High dust hopper levels	2025/04/16 03:43:00	2025/04/17 09:06:00
1	230	High dust hopper levels	2025/04/17 09:06:00	2025/04/17 22:06:00
1	593	DHP and casing repairs	2025/04/17 22:06:00	2025/04/20 22:05:00
1	180	High dust hopper levels	2025/04/24 00:27:00	2025/04/24 04:36:00
1	80	High dust hopper levels	2025/04/24 04:37:00	2025/04/24 05:21:00
1	180	Dust plant problems	2025/04/24 08:30:00	2025/04/24 16:08:00
1	180	AM: High ash hopper levels.	2025/04/24 20:10:00	2025/04/25 05:20:00
1	80	High hopper levels.	2025/04/25 14:20:00	2025/04/25 17:08:00
1	180	High hopper levels	2025/04/25 20:20:00	2025/04/26 00:00:00
1	100	High dust hopper levels	2025/04/26 00:00:00	2025/04/26 00:49:00
1	80	LH Inner precip casing repairs	2025/04/26 00:00:00	2025/04/26 23:42:00
1	80	High dust hopper levels	2025/04/27 16:53:00	2025/04/28 03:00:00
1	180	High dust hopper levels	2025/04/28 03:00:00	2025/04/30 16:28:00
1	130	High dust hopper levels	2025/04/30 16:28:00	2025/04/30 23:59:59
2	593	MGO ESP & SO3	2025/04/01 00:00:00	2025/04/30 23:59:59
3	140	High stack emissions.	2025/04/03 20:22:00	2025/04/03 20:50:00
3	149	High stack emission	2025/04/03 20:50:00	2025/04/03 21:16:00
3	175	High stack emissions	2025/04/03 21:16:00	2025/04/03 21:33:00
3	182	High stack emissions.	2025/04/03 21:33:00	2025/04/03 23:51:00
3	87	High stack emissions	2025/04/03 23:51:00	2025/04/04 00:04:00
3	74	High stack emissions	2025/04/04 00:04:00	2025/04/04 00:40:00
3	593	Boiler tube leak repairs.	2025/04/10 20:51:00	2025/04/13 20:24:00
3	593	Unit shut down for boiler tube leak repairs.	2025/04/14 12:43:00	2025/04/19 06:43:00
3	296	RH PA fan tripped due to NDE motor bearing temperature high.	2025/04/21 19:02:00	2025/04/21 21:23:00
3	593	Unit tripped on poor condenser vacuum	2025/04/22 08:49:00	2025/04/22 14:27:00
3	73	High dust hopper levels	2025/04/23 22:00:00	2025/04/24 12:04:00
3	164	AM: High ash hopper levels.	2025/04/24 20:47:00	2025/04/25 05:00:00
3	593	Low drum level	2025/04/29 01:01:00	2025/04/29 09:14:00
3	118	High dust hopper levels.	2025/04/30 20:43:00	2025/04/30 23:59:59
4	593	Discharge control valve stroke checking.	2025/04/01 00:00:00	2025/04/03 00:58:00
4	297	System Generated Ramp Event for Event id : 2042782	2025/04/03 00:58:00	2025/04/03 03:58:00
4	385	RH ID fan vane actuator faulty	2025/04/03 03:58:00	2025/04/03 04:50:00
4	296	RH ID fan vane actuator faulty.	2025/04/03 04:50:00	2025/04/03 04:59:00
4	251	RH ID fan vane actuator faulty	2025/04/03 04:59:00	2025/04/03 05:11:00
4	245	RH ID fan vane actuator faulty	2025/04/03 05:11:00	2025/04/03 06:03:00
4	171	RH ID fan vane actuator faulty	2025/04/03 06:03:00	2025/04/03 06:21:00
4	593	Boiler tube leak- Platen super heaters	2025/04/03 16:15:00	2025/04/15 05:12:00
4	320	System Generated Ramp Event for Event id : 2043875 (Recalculated)	2025/04/15 05:12:00	2025/04/15 07:58:00
4	593	Unit tripped on low drum level.	2025/04/15 07:58:00	2025/04/15 10:17:00
4	540	System Generated Ramp Event for Event id : 2048358 (Recalculated)	2025/04/15 10:17:00	2025/04/15 10:32:00
UNIT	MWLOSS	REASON	ACTUALSTARTDATE	ACTUALENDDATE
4	593	Unit tripped the turbine on water carry over.	2025/04/15 10:32:00	2025/04/15 16:46:00
4	297	System Generated Ramp Event for Event id : 2048401	2025/04/15 16:46:00	2025/04/15 18:16:00
4	365	Mills unavailable	2025/04/15 18:16:00	2025/04/15 19:14:00
4	368	Mills unavailable	2025/04/15 19:14:00	2025/04/15 20:06:00
4	351	Mills unavailable	2025/04/15 20:06:00	2025/04/15 20:17:00
4	318	Mills unavailable	2025/04/15 20:17:00	2025/04/15 20:19:00
4	310	Mills unavailable	2025/04/15 20:19:00	2025/04/15 20:46:00
4	301	Mills unavailable	2025/04/15 20:46:00	2025/04/15 20:52:00
4	280	Mills unavailable	2025/04/15 20:52:00	2025/04/15 21:00:00
4	288	Mills unavailable	2025/04/15 21:00:00	2025/04/15 21:39:00
4	268	Mills unavailable	2025/04/15 21:39:00	2025/04/15 22:49:00
4	232	Mills unavailable	2025/04/15 22:49:00	2025/04/16 12:05:00
4	53	High stack emissions.	2025/04/18 20:46:00	2025/04/19 11:05:00
4	17	High stack emissions	2025/04/19 11:05:00	2025/04/19 13:13:00
4	7	High stack emissions	2025/04/19 13:13:00	2025/04/19 15:57:00
4	593	Boiler tube leak repair	2025/04/22 21:23:00	2025/04/27 14:29:00
4	297	System Generated Ramp Event for Event id : 2050595	2025/04/27 14:29:00	2025/04/27 17:29:00
4	150	High hopper levels	2025/04/30 16:07:00	2025/04/30 16:07:00
4	150	High hopper levels	2025/04/30 16:07:00	2025/04/30 16:48:00
4	150	High dust hopper levels.	2025/04/30 21:02:00	2025/04/30 23:59:59
5	80	EF: High stack emissions	2025/04/04 09:32:00	2025/04/04 19:24:00
5	131	EF: High stack emissions	2025/04/04 19:24:00	2025/04/05 04:28:00
5	80	High stack emissions	2025/04/08 19:34:00	2025/04/09 00:24:00
5	97	High stack emissions	2025/04/10 19:32:00	2025/04/10 19:46:00
5	131	High stack emissions.	2025/04/10 19:46:00	2025/04/11 04:53:00
5	177	High stack emissions.	2025/04/11 04:53:00	2025/04/11 21:00:00
5	179	High stack emissions.	2025/04/15 11:32:00	2025/04/16 06:05:00
5	81	High stack emissions due to SO3 plant tripped.	2025/04/20 15:26:00	2025/04/20 23:05:00
5	177	AM: High stack emissions.	2025/04/23 05:48:00	2025/04/23 16:01:00
6	50	High hopper levels	2025/04/02 20:44:00	2025/04/03 05:26:00
6	50	LHO precip casing repairs	2025/04/13 17:32:00	2025/04/13 20:40:00
6	296	System Generated Ramp Event for Event id : 2048522	2025/04/16 08:12:00	2025/04/16 10:42:00
6	70	Correlation test	2025/04/16 23:50:00	2025/04/17 04:02:00
6	72	LHI precip casing repairs	2025/04/20 00:00:00	2025/04/20 23:05:00