



Mr. Mcebo Mkhathshwa
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Date:
24 July 2024

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LRP01PLA000 _0410/20240705

Dear Mr. Mkhathshwa

LETHABO POWER STATION EMISSION MONTHLY REPORT FOR JUNE 2024

Please find attached Lethabo Power Station emission report for the month of June 2024.

Also attached are the Ambient Air Quality Monitoring Report, Complaints Register and the Fugitive Dust Fallout Monitoring Report for June 2024.

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

Yours sincerely

Karabo Rakgolela
pp**GENERAL MANAGER**

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Report

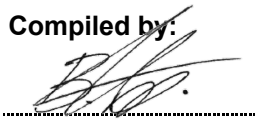
Lethabo Power Station

Report name: **Lethabo Power Station**
June 2024
Emission Report

Reference number: **LRP01PLA000_0410/20240705**
Document Type: **Report**
Area of Applicability: **Environment**
Report Date: **July-2024**
Classification: **Controlled Disclosure**

Signatures:

Compiled by:


B Moletsane
Engineer

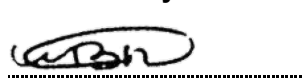
Date: 24 July 2024

Verified by :


W de Klerk
Senior Advisor

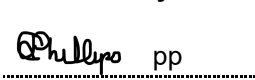
Date: 2024-07-24

Reviewed by:


Nathi Mazibuko
BPE Manager

Date: 2024/07/26

Reviewed by:


C Govinden
PE Manager

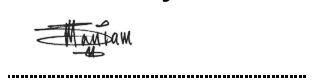
Date: 2024-07-25

Reviewed by:


L Nel
C&I Manager

Date: 2024-07-30

Reviewed by:


M Hariram
Environmental Manager

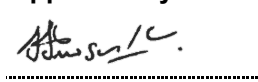
Date: 2024-07-26

Reviewed by:


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Engineering Manager

Date: 30/07/2024

Approved by:


H Sewsunker
Technical Manager

Date: 2024/07/30

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LETHABO POWER STATION MONTHLY EMISSIONS REPORT

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1. RAW MATERIALS AND PRODUCTS

Raw Materials and Products	Raw Material Type	Units	Maximum Permitted Consumption Rate	Consumption Rate Jun-2024
	Coal	Tons	2 000 000	1 015 675
	Fuel Oil	Tons	1 700	1666.340
Production Rates	Product / By-Product Name	Units	Maximum Production Capacity Permitted	Indicative Production Rate Jun-2024
	Energy	GWh	2 743.200	1 296.184
	Ash	Tons	770 000	386 261.020
	RE Ash	kg/MWh	Not Specified	297.999

Note: Maximum energy rate is as per the maximum capacity stated in the AEL: [3 810 MW] x 24 hrs x days in Month/1000 to convert to GWh.

2. ENERGY SOURCE CHARACTERISTICS

Coal Characteristic	Units	Stipulated Range	Monthly Average Content
Sulphur Content	%	0.656 (Standard)	0.670
Ash Content	%	37.37 (Standard)	38.030

Note: The "standard" is not necessary a limit, but merely a optimum indication, it will fluctuate as the coal quality changes. The Stipulated Range are the Station acceptance test values.

3. EMISSION LIMITS (mg/Nm³)

Associated Unit/Stack	PM	SO ₂	NO _x
Unit 1	100	3500	1100
Unit 2	100	3500	1100
Unit 3	100	3500	1100
Unit 4	100	3500	1100
Unit 5	100	3500	1100
Unit 6	100	3500	1100

4. ABATEMENT TECHNOLOGY (%)

Associated Unit/Stack	Technology Type	Efficiency Jun-2024	Technology Type	SO ₃ Utilization Jun-2024
Unit 1	<i>Electrostatic Precipitator (ESP)</i>	99.89%	SO ₃	97.1%
Unit 2	<i>Electrostatic Precipitator (ESP)</i>	99.55%	SO ₃	69.0%
Unit 3	<i>Electrostatic Precipitator (ESP)</i>	99.82%	SO ₃	100.0%
Unit 4	<i>Electrostatic Precipitator (ESP)</i>	99.62%	SO ₃	99.3%
Unit 5	<i>Electrostatic Precipitator (ESP)</i>	99.75%	SO ₃	99.8%
Unit 6	<i>Electrostatic Precipitator (ESP)</i>	<i>Unit Off-line</i>	SO ₃	<i>Off-line</i>

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

5. MONITOR RELIABILITY (%)

Associated Unit/Stack	PM	SO ₂	NO
Unit 1	97.6	100.0	100.0
Unit 2	87.2	100.0	100.0
Unit 3	97.4	100.0	100.0
Unit 4	97.2	100.0	100.0
Unit 5	98.6	100.0	100.0
Unit 6	Off	Off	Off

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

6. EMISSION PERFORMANCE

Table 6.1: Monthly tonnages for the month of June 2024

Associated Unit/Stack	PM (tons)	SO ₂ (tons)	NO _x (tons)
Unit 1	108.0	3 079	1 720
Unit 2	335.5	2 925	1 137
Unit 3	132.2	2 657	1 056
Unit 4	194.9	2 858	1 423
Unit 5	130.0	2460	1075
Unit 6	Off	Off	Off
SUM	900.5	13 978	6 411

Table 6.2: Operating days in compliance to PM AEL Limit - June 2024

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average PM (mg/Nm³)
Unit 1	27	3	0	0	3	62.7
Unit 2	13	11	0	6	17	221.7
Unit 3	21	8	0	0	8	96.3
Unit 4	14	9	0	1	10	152.4
Unit 5	12	8	0	0	8	110.9
Unit 6	Off	Off	Off	Off	Off	Off
SUM	87	39	0	7	46	

Table 6.3: Operating days in compliance to SO₂ AEL Limit - June 2024

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average SO ₂ (mg/Nm³)
Unit 1	30	0	0	0	0	1 716.7
Unit 2	30	0	0	0	0	1 826.0
Unit 3	30	0	0	0	0	1 840.0
Unit 4	26	0	0	0	0	1 713.6
Unit 5	23	0	0	0	0	1 695.6
Unit 6	Off	Off	Off	Off	Off	Off
SUM	139	0	0	0	0	

Table 6.4: Operating days in compliance to NOx AEL Limit - June 2024

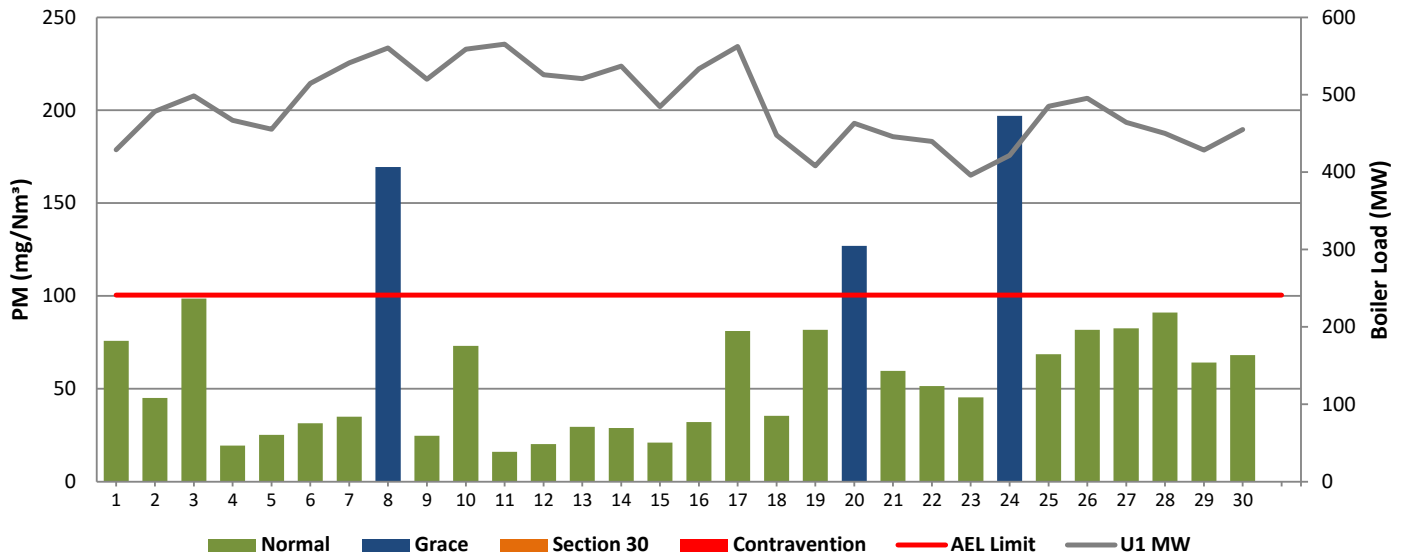
Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average NOx (mg/Nm³)
Unit 1	30	0	0	0	0	955.8
Unit 2	30	0	0	0	0	704.3
Unit 3	30	0	0	0	0	729.6
Unit 4	26	0	0	0	0	835.1
Unit 5	23	0	0	0	0	744.2
Unit 6	Off	Off	Off	Off	Off	Off
SUM	139	0	0	0	0	

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

Table 6.5: Legend Description

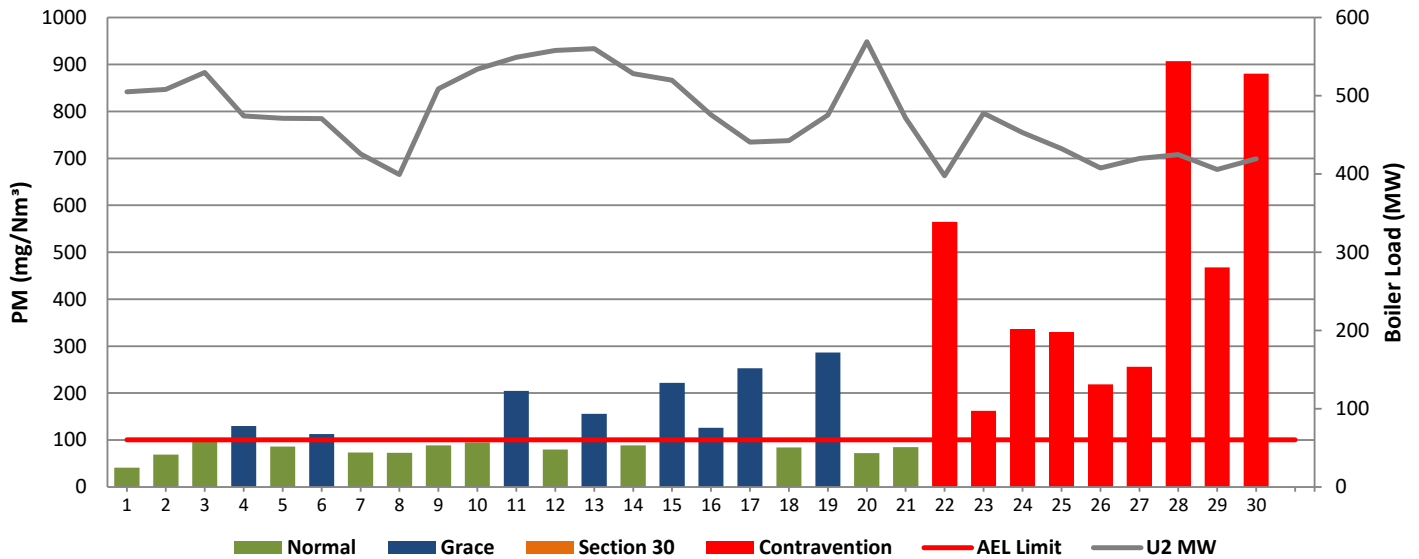
Condition	Colour	Description
Normal	GREEN	Emissions below Emission Limit Value (ELV)
Grace	BLUE	Emissions above the ELV during grace period
Section 30	ORANGE	Emissions above ELV during a NEMA S30 incident
Contravention	RED	Emissions above ELV but outside grace or S30 incident conditions

Figure 1: Lethabo Unit 1 PM Emissions - June 2024



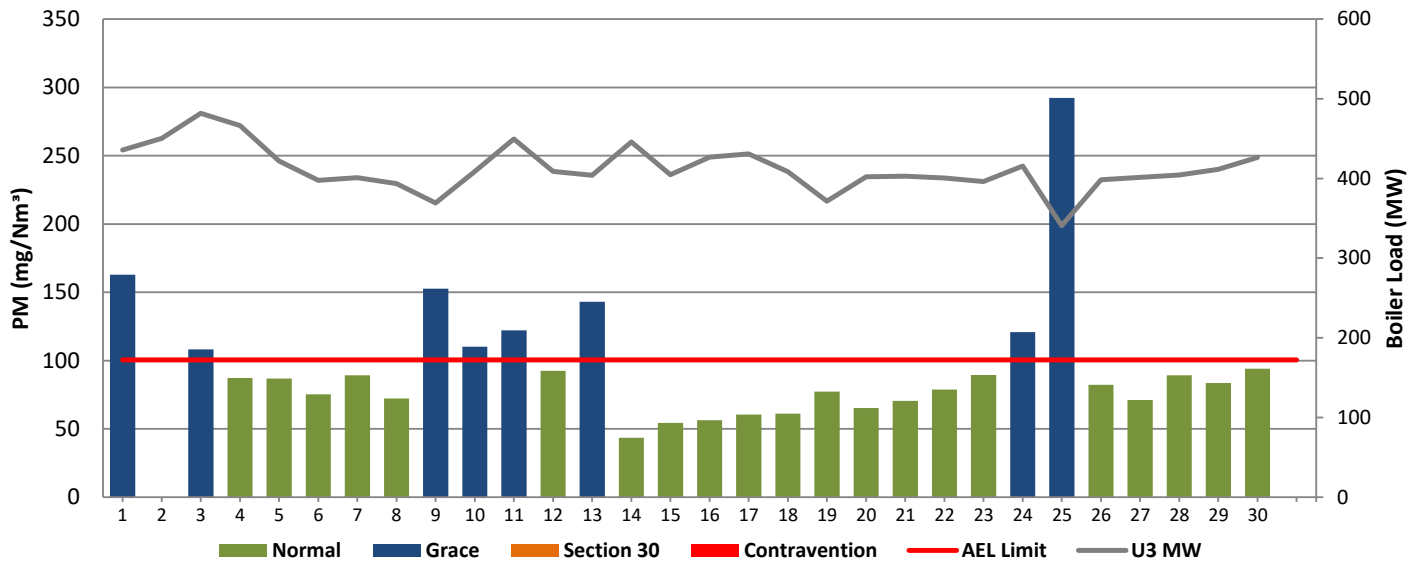
Reasons:	
Date	Description:
09-Jun	Unit 1 tripped due to drum level low, lost EFP B pump
21-Jun	LHO & RHI poor casing performance
25-Jun	Manual rapping carried out

Figure 2: Lethabo Unit 2 PM Emissions - June 2024



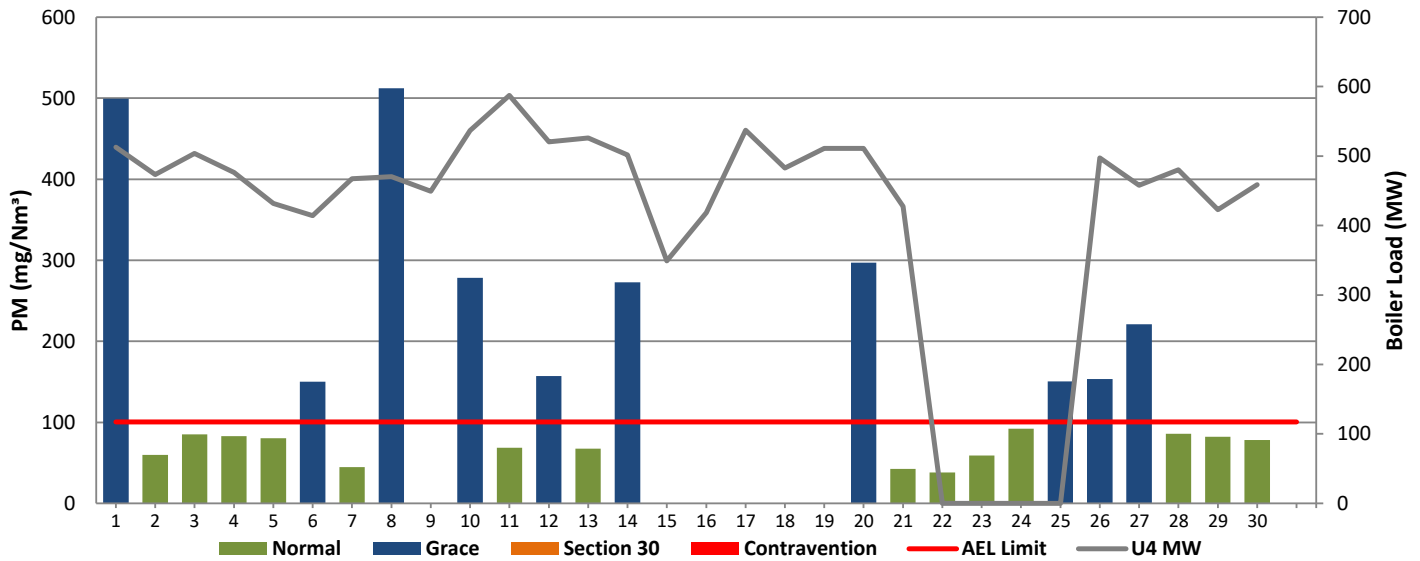
Reasons:	
Date	Description:
05-Jun	Manual rapping carried out
07-Jun	SO3 plant challenges Poor casing performance
12-Jun	Manual rapping carried out
14-Jun	Manual rapping carried out
16-Jun	The unit synchronised on 2024/06/15 @ 18:12, therefore the emissions need to be below the limit by 2024/06/18 @ 18:12 and remain below the limit unit 2024/06/19 @ 23:59.
17-Jun	
18-Jun	
20-Jun	Defective SO3 plant. Manual rapping carried out.
23-Jun	Poor ESP performance (LHI outage) SO3 plant unavailable
24-Jun	Poor ESP performance
25-Jun	SO3 plant unavailable
26-Jun	Manual rapping done
27-Jun	
28-Jun	
29-Jun	
30-Jun	

Figure 3: Lethabo Unit 3 PM Emissions - June 2024



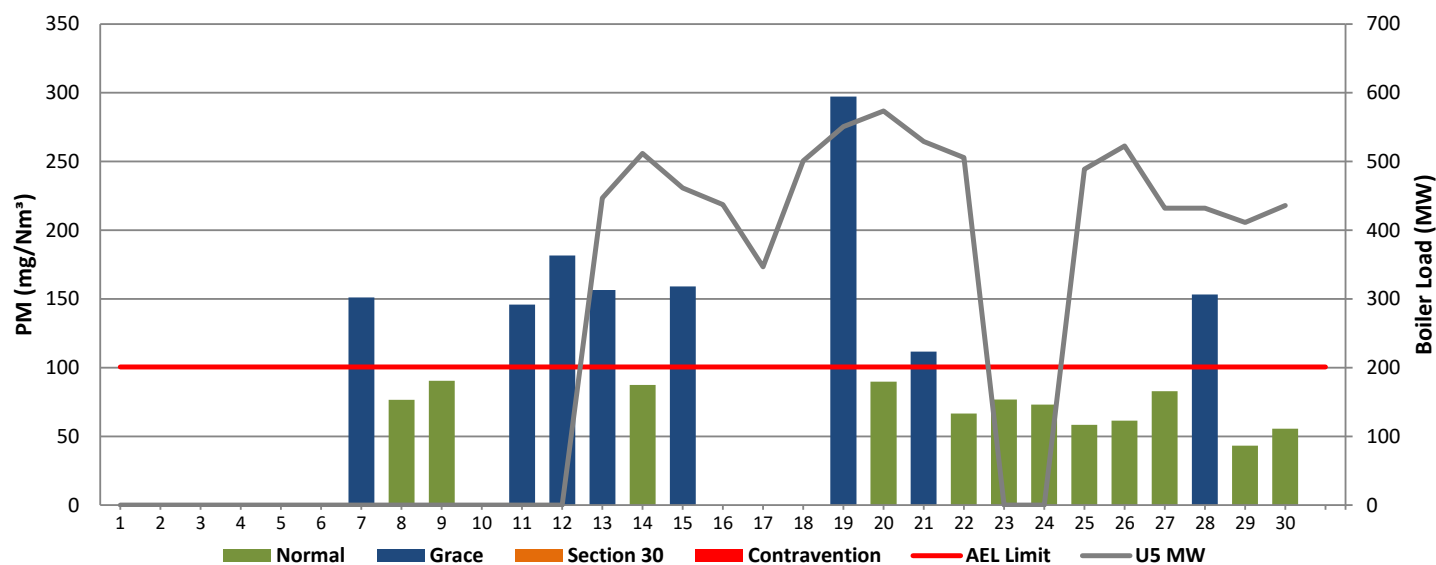
Reasons:	
Date	Description:
02-Jun	RHI casing washing (outage)
04-Jun	RHI Casing outage
10-Jun	LHO casing outage
11-Jun	Poor casing performance High hopper levels
12-Jun	Manual rapping carried
14-Jun	LHI casing outage Clean rapping carried out
25-Jun	Poor casing performance
26-Jun	High hopper levels Manual rapping done Poor ESP casing performance

Figure 4: Lethabo Unit 4 PM Emissions - June 2024



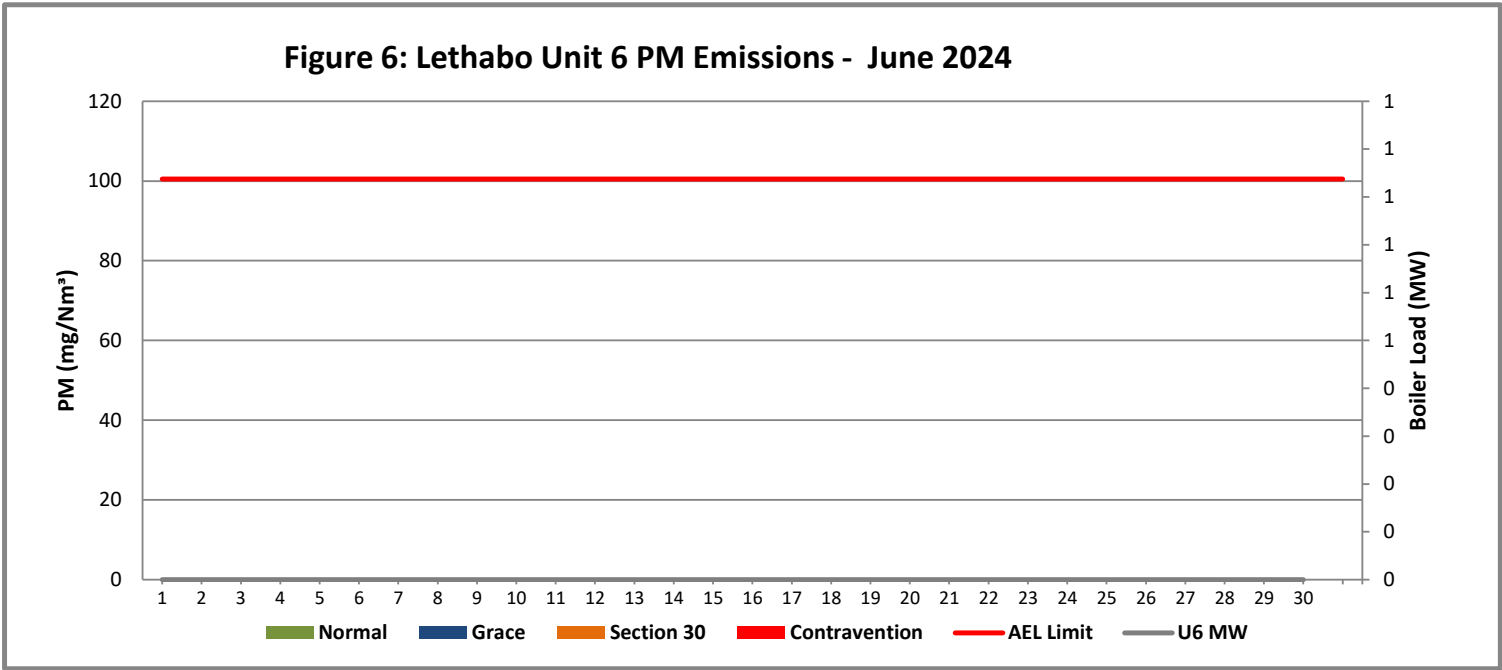
Reasons:	
Date	Description:
02-Jun	LHO casing outage
07-Jun	Manual rapping carried out
09-Jun	Unit off load for minor repairs
11-Jun	The unit synchronised on 2024/06/09 @ 13:00, therefore the emissions need to be below the limit by 2024/06/12 @ 13:00 and remain below the limit until 2024/06/13 @ 23:59
13-Jun	Manual rapping carried out
15-Jun	Unit 4 shut down for Boiler Tube Leak.
21-Jun	The unit synchronised on 2024/06/19 @ 10:34, therefore the emissions need to be below the limit by 2024/06/22 @ 10:34 and remain below the limit unit 2024/06/23 @ 23:59.
26-Jun	Poor ESP casing performance (RHI & RHO)
27-Jun	Poor ESP casing performance High hopper levels
28-Jun	Manual rapping carried out Poor ESP casing performance

Figure 5: Lethabo Unit 5 PM Emissions - June 2024



Reasons:	
Date	Description:
08-Jun	The unit synchronised on 2024/06/06 @ 05:11, therefore the emissions need to be below the limit by 2024/06/09 @ 05:11 and remain below the limit until 2024/06/10 @ 23:59
12-Jun	The unit synchronised on 2024/06/10 @ 18:16, therefore the emissions need to be below the limit by 2024/06/13 @ 18:16 and remain below the limit until 2024/06/13 @ 23:59
13-Jun	The unit synchronised on 2024/06/10 @ 18:16, therefore the emissions need to be below the limit by 2024/06/13 @ 18:16 and remain below the limit until 2024/06/13 @ 23:59
14-Jun	Manual rapping carried out
16-Jun	Unit 5 shut down for SSC issues.
20-Jun	The unit synchronised on 2024/06/18 @ 13:39, therefore the emissions need to be below the limit by 2024/06/21 @ 13:39 and remain below the limit unit 2024/06/22 @ 23:59.
22-Jun	Manual rapping
29-Jun	Manual rapping carried out

Figure 6: Lethabo Unit 6 PM Emissions - June 2024



Reasons:	
Date	Description:

Figure 7: Lethabo Unit 1 SO₂ Emissions - June 2024

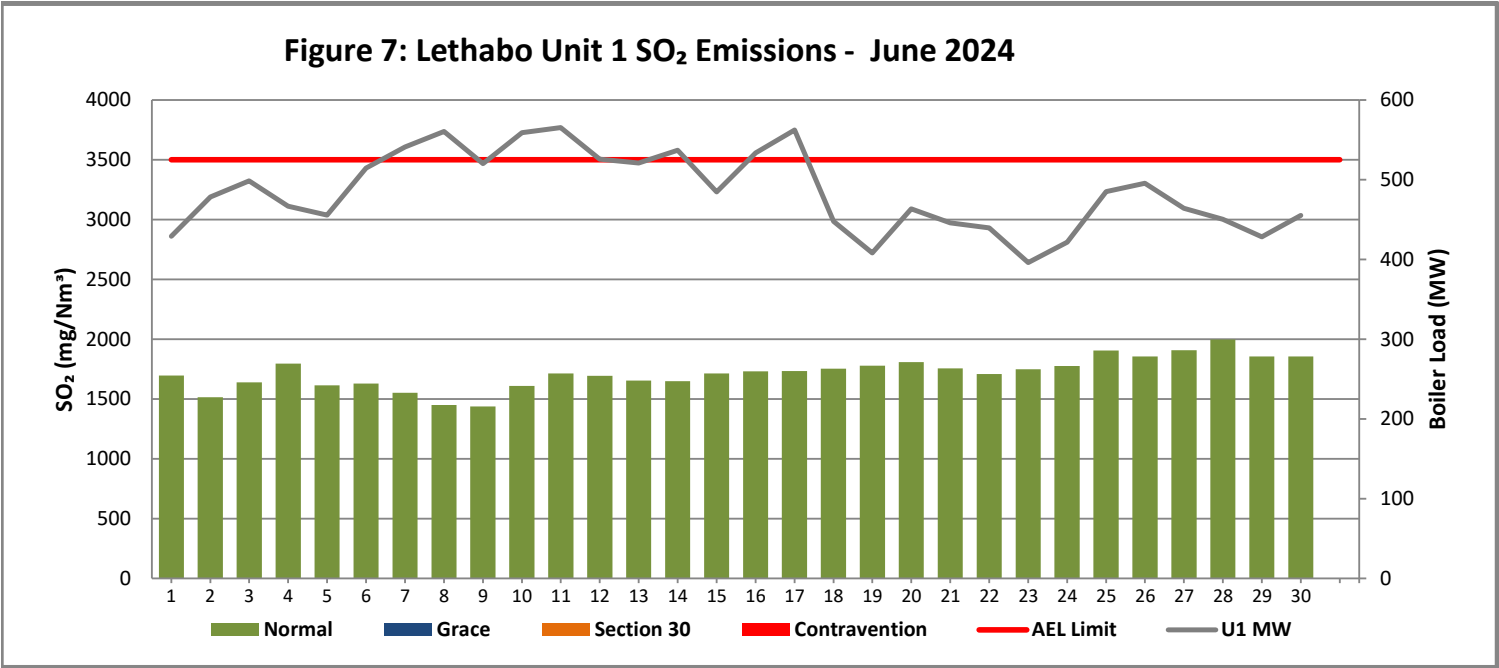


Figure 8: Lethabo Unit 2 SO₂ Emissions - June 2024

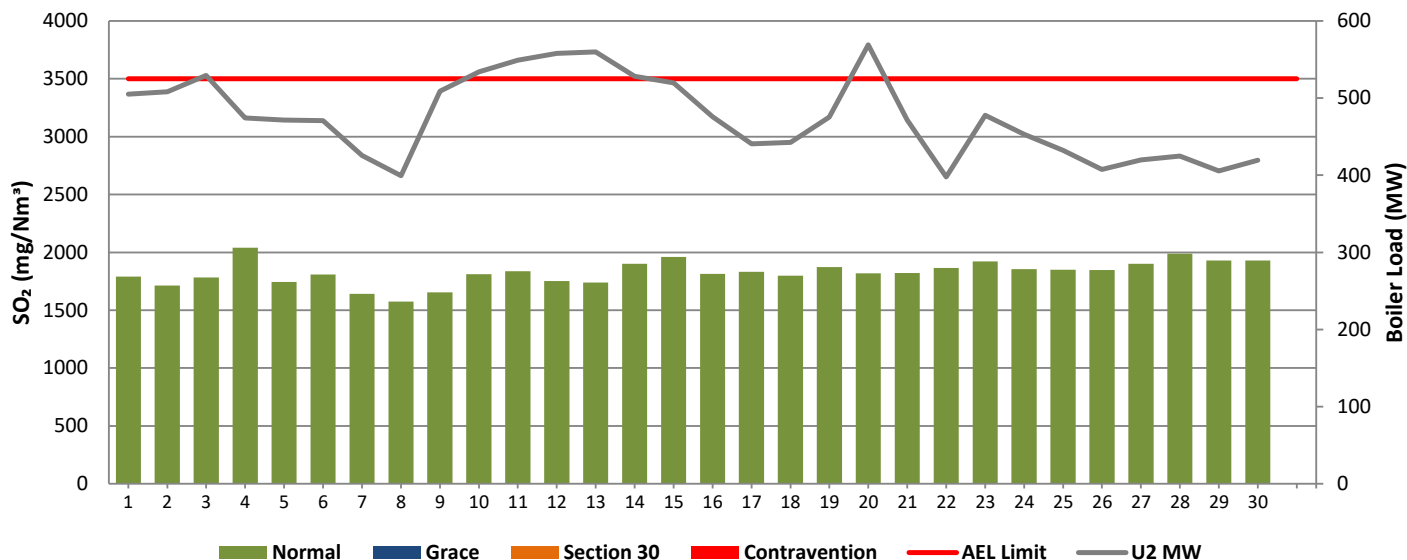


Figure 9: Lethabo Unit 3 SO₂ Emissions - June 2024

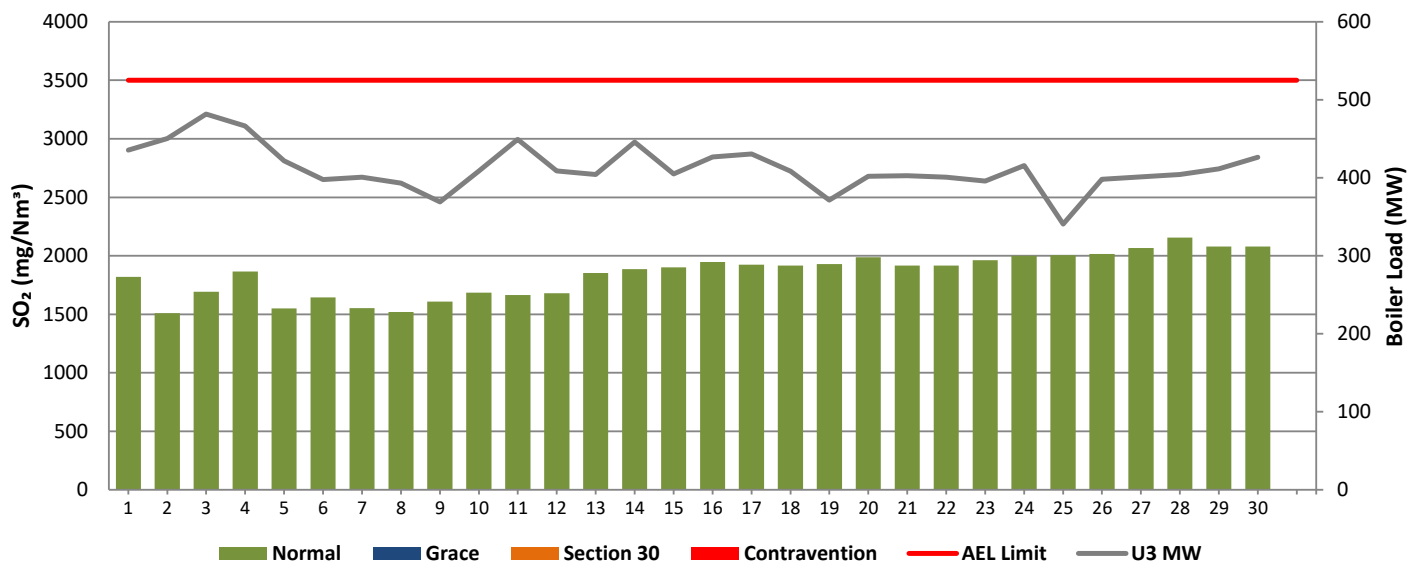


Figure 10: Lethabo Unit 4 SO₂ Emissions - June 2024

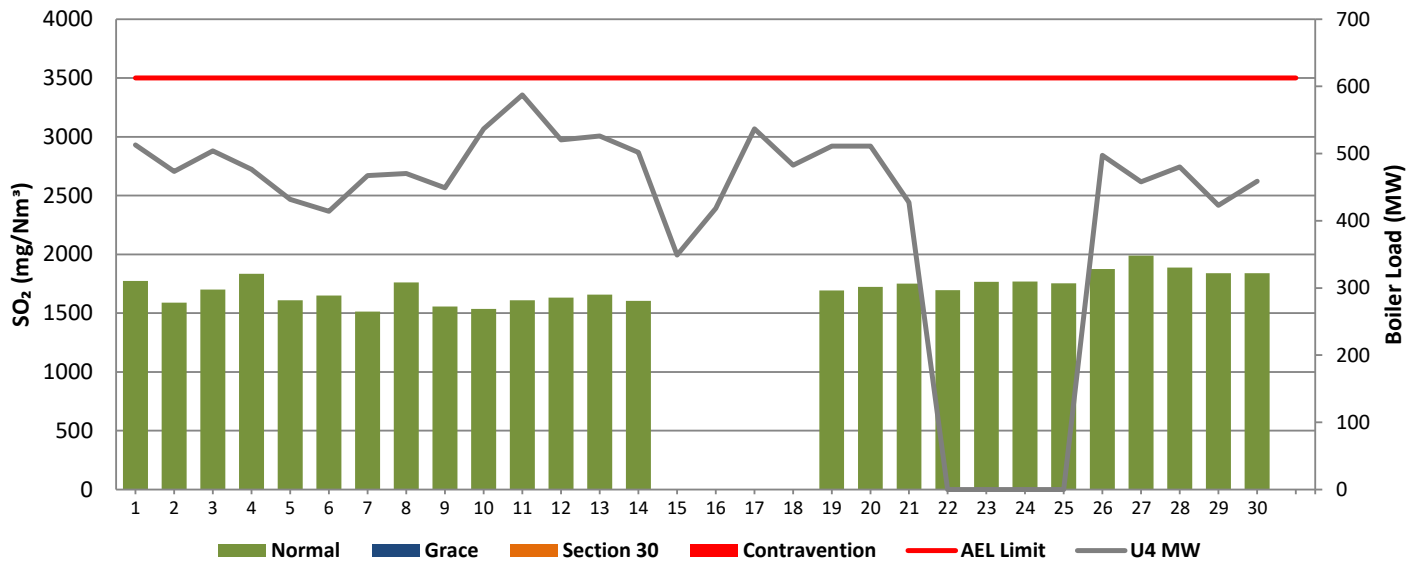


Figure 11: Lethabo Unit 5 SO₂ Emissions - June 2024

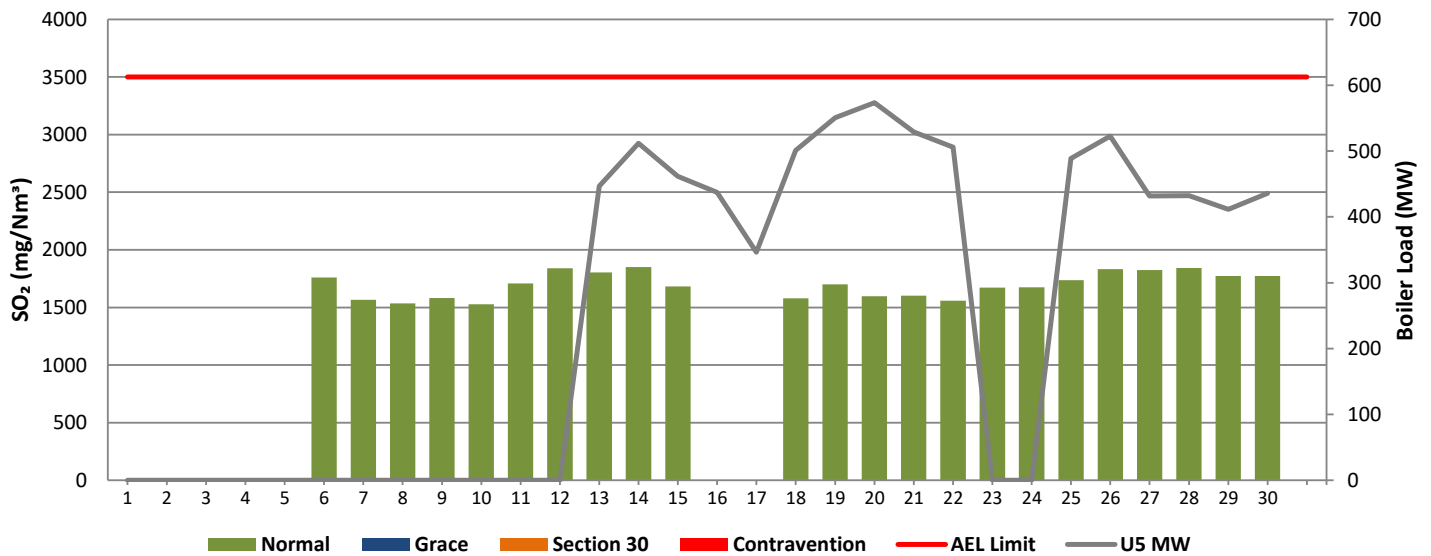


Figure 12: Lethabo Unit 6 SO₂ Emissions - June 2024

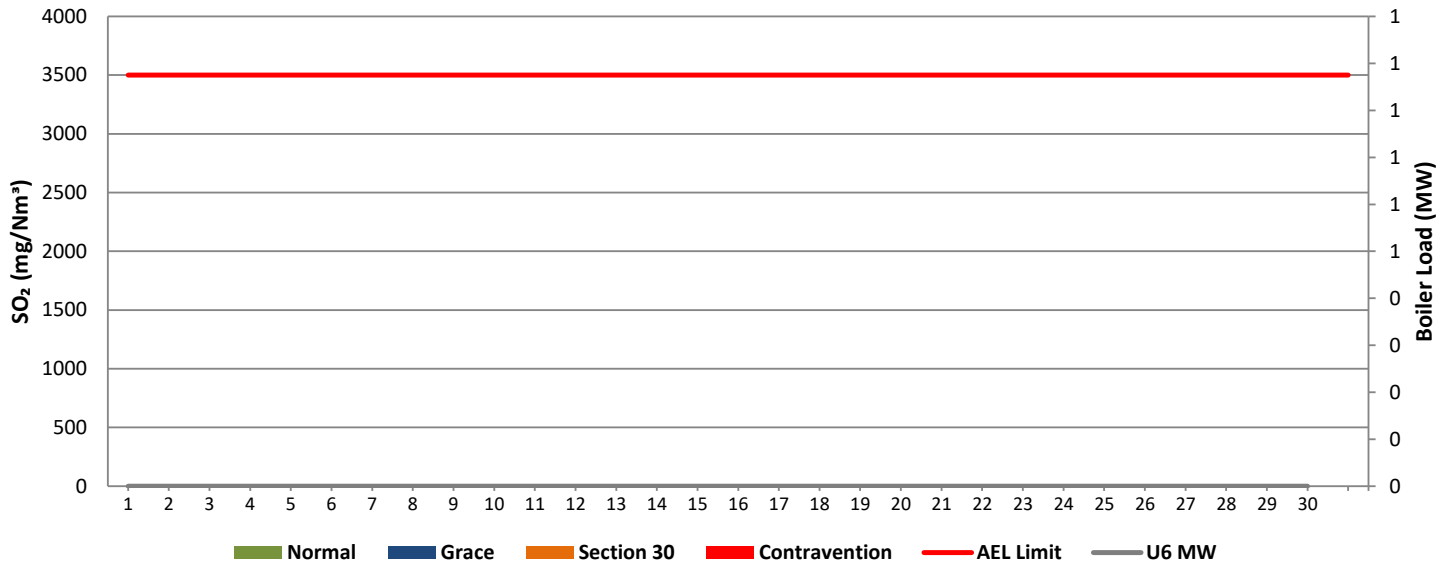


Figure 13: Lethabo Unit 1 NO_x Emissions - June 2024

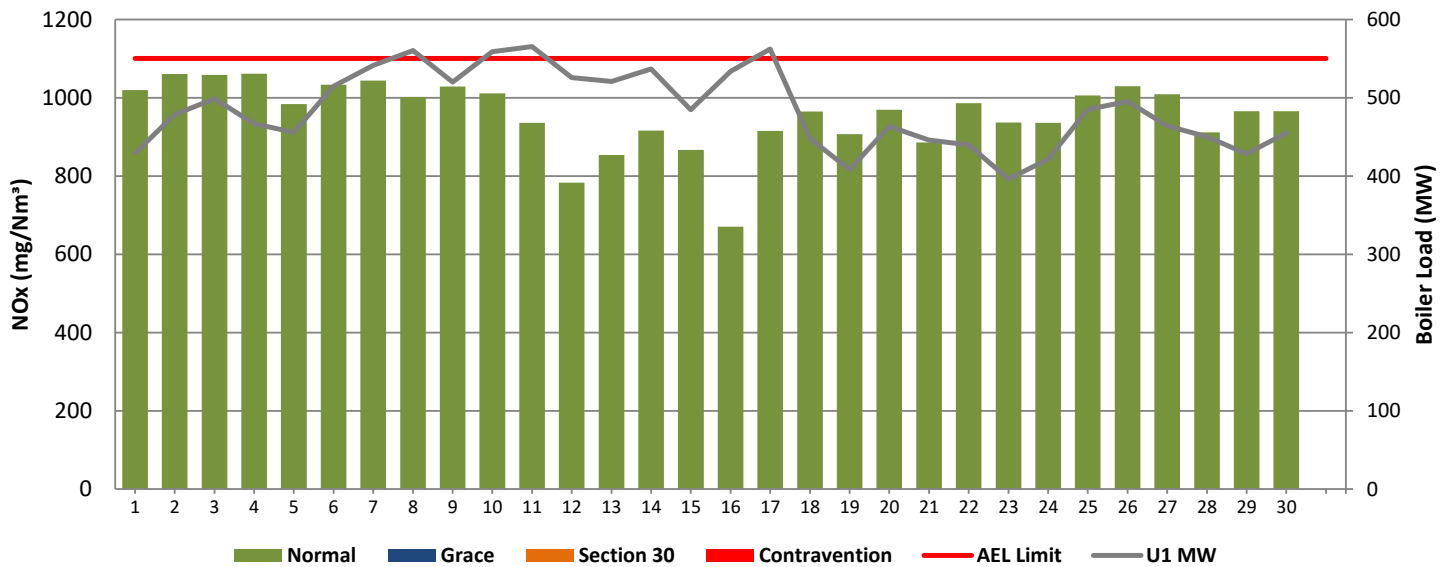


Figure 14: Lethabo Unit 2 NOx Emissions - June 2024

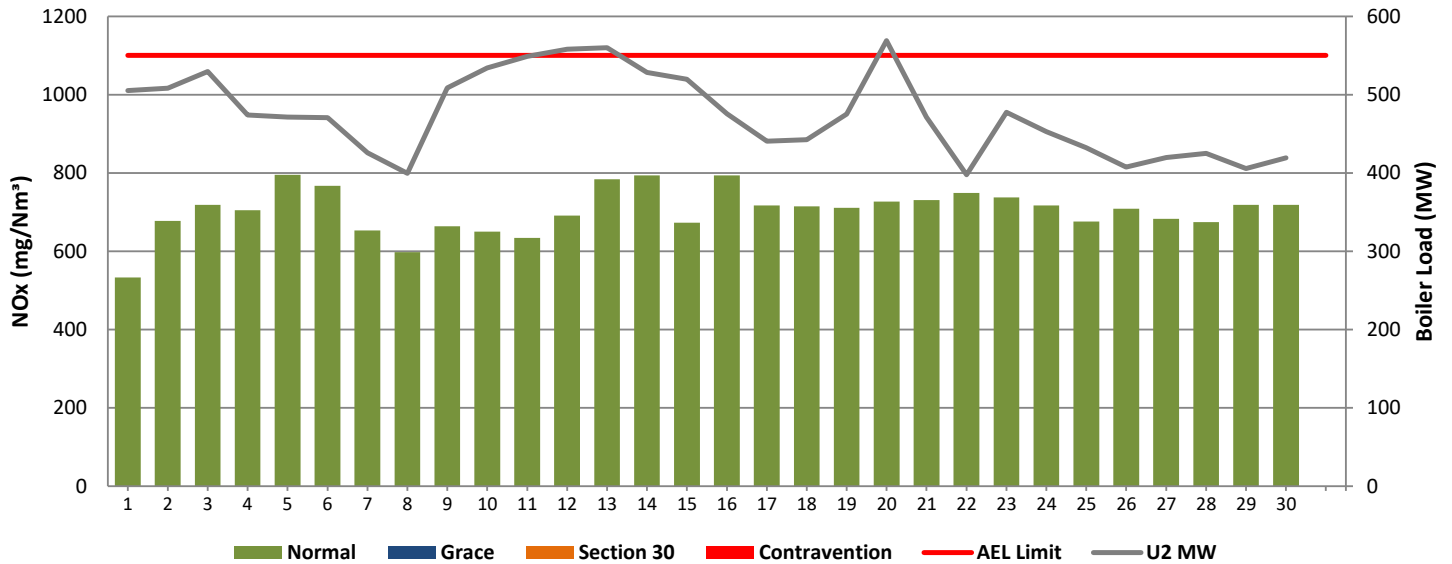


Figure 15: Lethabo Unit 3 NOx Emissions - June 2024

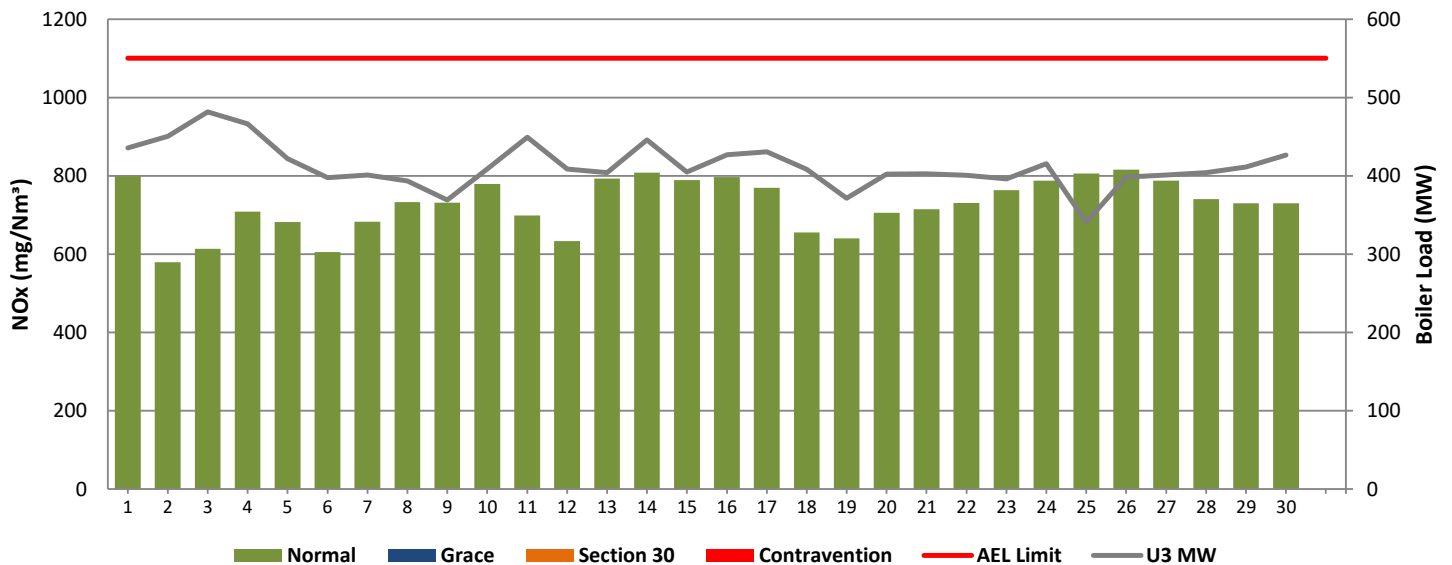


Figure 16: Lethabo Unit 4 NOx Emissions - June 2024

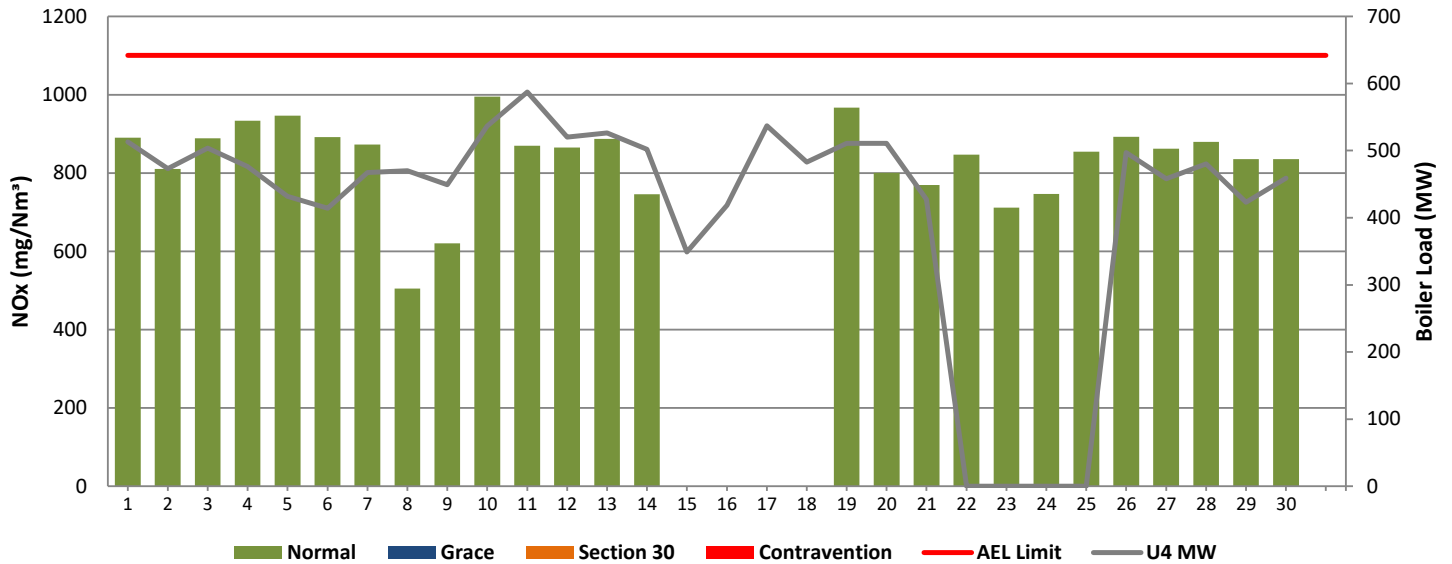


Figure 17: Lethabo Unit 5 NOx Emissions - June 2024

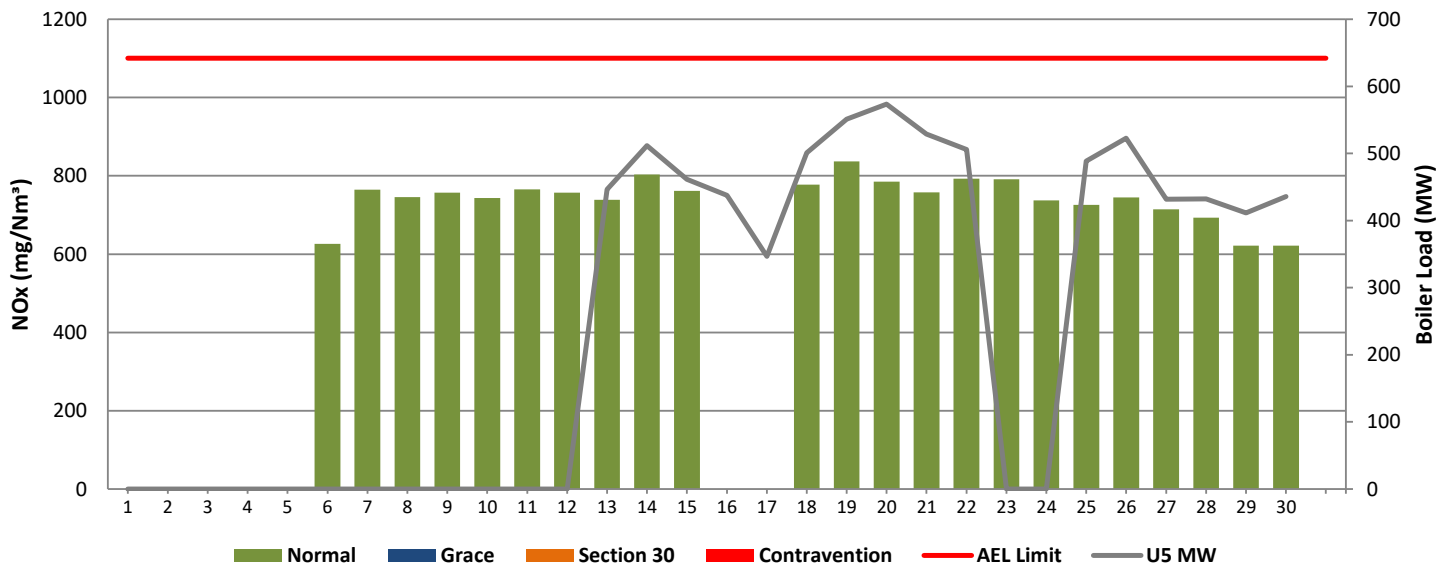
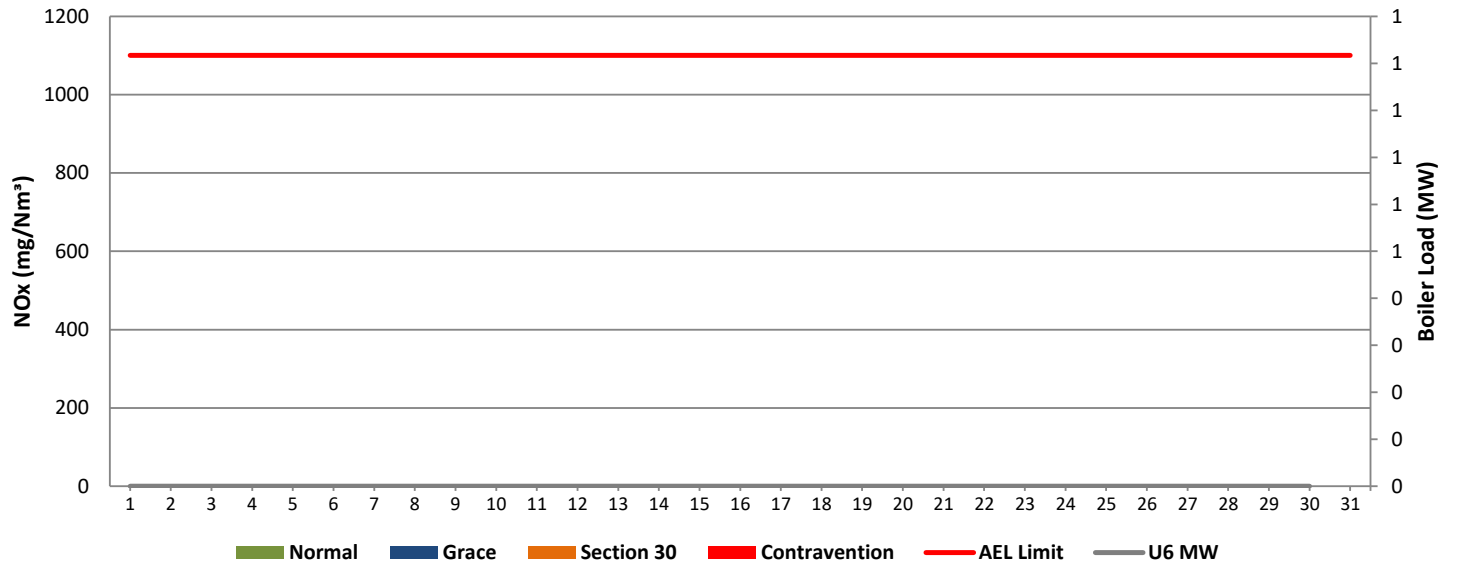


Figure 18: Lethabo Unit 6 NOx Emissions - June 2024



7 SHUT DOWN AND LIGHT UP INFORMATION

Table 7.1: PM Start-up information for the month of June 2024

Unit No.1	Low drum level due to EFP B tripped.							
Breaker Open (BO)	8:55 am	2024/06/08						
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		DD:HH:MM		DD:HH:MM		DD:HH:MM
Fires in time	12:42 pm	2024/06/08						
Synch. to Grid (or BC)	2:13 pm	2024/06/08						
Fires in to BC (duration)	00:01:31	DD:HH:MM		DD:HH:MM		DD:HH:MM		DD:HH:MM
Emissions below limit from BC (end date)	12:00 am	2024/06/09						
Emissions below limit from BC (duration)	00:09:47	DD:HH:MM		DD:HH:MM		DD:HH:MM		DD:HH:MM

Unit No.2	Generator rotor earth fault.							
Breaker Open (BO)	2:49 am	2024/06/15						
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	4:46 pm	2024/06/15						
Synch. to Grid (or BC)	6:12 pm	2024/06/15						
Fires in to BC (duration)	00:01:26	DD:HH:MM						
Emissions below limit from BC (end date)	12:00 am	2024/06/18						
Emissions below limit from BC (duration)	02:05:48	DD:HH:MM						

Unit No.3	AM: Coal bunkers empty. Unit tripped below block		Tripped on high condenser vacuum					
Breaker Open (BO)	9:43 pm	2024/06/01	10:40 am	2024/06/18				
Draught Group (DG) Shut Down (SD)	11:28 pm	2024/06/01	DG did not trip or SD	DG did not trip or SD				
BO to DG SD (duration)	00:01:45	DD:HH:MM	n/a	DD:HH:MM				
Fires in time	7:46 am	2024/06/02	12:51 pm	2024/06/18				
Synch. to Grid (or BC)	10:10 am	2024/06/02	1:48 pm	2024/06/18				
Fires in to BC (duration)	00:02:24	DD:HH:MM	00:00:57	DD:HH:MM				
Emissions below limit from BC (end date)	2:00 am	2024/06/05	10:50 am	2024/06/18				
Emissions below limit from BC (duration)	02:15:50	DD:HH:MM	#####	DD:HH:MM				

Unit No.4	Boiler tube leak repairs							
Breaker Open (BO)	6:07 am	2024/06/14						
Draught Group (DG) Shut Down (SD)	7:01 pm	2024/06/14						
BO to DG SD (duration)	00:12:54	DD:HH:MM						
Fires in time	8:23 am	2024/06/19						
Synch. to Grid (or BC)	10:34 am	2024/06/19						
Fires in to BC (duration)	00:02:11	DD:HH:MM						
Emissions below limit from BC (end date)	2:00 am	2024/06/22						
Emissions below limit from BC (duration)	02:15:26	DD:HH:MM						

Unit No.5	Condenser washing and LP turbine last blade inspection		Coal bunkers low due to shuttle belt torn		SSC sprocket repairs			
Breaker Open (BO)			10:22 pm	2024/06/09	9:25 pm	2024/06/15		
Draught Group (DG) Shut Down (SD)			1:20 pm	2024/06/11	10:48 pm	2024/06/15		
BO to DG SD (duration)		DD:HH:MM	01:14:58	DD:HH:MM	00:01:23	DD:HH:MM		
Fires in time	2:20 am	2024/06/06	4:52 pm	2024/06/10	12:46 pm	2024/06/18		
Synch. to Grid (or BC)	5:10 am	2024/06/06	6:15 pm	2024/06/10	1:39 pm	2024/06/18		
Fires in to BC (duration)	00:02:50	DD:HH:MM	00:01:23	DD:HH:MM	00:00:53	DD:HH:MM		
Emissions below limit from BC (end date)	3:00 am	2024/06/09	12:00 am	2024/06/14	4:00 am	2024/06/21		
Emissions below limit from BC (duration)	02:21:50	DD:HH:MM	03:05:45	DD:HH:MM	02:14:21	DD:HH:MM		

Unit No.6	Outage							
Breaker Open (BO)								
Draught Group (DG) Shut Down (SD)								
BO to DG SD (duration)		DD:HH:MM		DD:HH:MM		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		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

7.2: Point Source emissions released during start-up (fires-in) and Shut-down (SD) for the month of June 2024 in mg/Nm³

8. MAINTENANCE

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

Unit 2				
Beginning of Maintenance	2024/06/22 00:00:00			
Reason for Maintenance	AM: LHI Casing repairs			
End (Time):	2024/06/23 00:00:00			
Duration	24:00:00			

Unit 3				
Beginning of Maintenance	2024/06/01 00:00:00	2024/06/02 12:49		
Reason for Maintenance	AM: RHI Precip casing	RHI precip Casing Washing		
End (Time):	2024/06/01 21:43:00	2024/06/03 22:06		
Duration	21:43:00	33:17:00		

Unit 4				
Beginning of Maintenance	2024/06/01 00:00	2024/06/01 12:25		
Reason for Maintenance	RHO precip casing.	LHO casing repairs		
End (Time):	2024/06/01 12:25	2024/06/03 00:15		
Duration	12:25:00			

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

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

9. GENERAL

Unit 1 Monitor Reliability

15/06/2024: PM monitor Reliability low due to electrical boards off.

Unit 2 Monitor Reliability

15/06/2024: PM Monitor Reliability low due to electrical boards off.
16/06/2024: PM monitor reliability low due to monitor reading maxing out.
17/06/2024: PM monitor reliability low due to monitor reading maxing out.
22/06/2024: PM monitor reliability low due to monitor reading maxing out.
24/06/2024: PM monitor reliability low due to monitor reading maxing out.
28/06/2024: PM monitor reliability low due to monitor reading maxing out.
30/06/2024: PM monitor reliability low due to monitor reading maxing out.

On the 22/06/2024 - 30/06/2024, unit 2 registered a non-compliance as the unit exceeded for greater than 72 hours due to SO3 plant issues; requiring the repairs of the SO3 plant sulphur inlet burner pipe flange and inlet air pipe inlet burner valve. Unit experienced upset conditions on 2024/06/22 @ 23:59 and the emissions needed to be below the limit from 2024/06/22 @ 23:59 until 2024/06/24 @ 23:59.

Unit 3 Monitor Reliability

15/06/2024: PM monitor reliability low due to electrical boards off.

Unit 4 Monitor Reliability

01/06/2024: PM Monitor Reliability low due to monitor reading maxing out.

Unit 5 Gaseous Monitor Reliability

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.
2	25-Jun	30-Jun	Poor ESP performance SO3 plant unavailable	Address ESP defects and do maintenance to return SO3 plant to service.	26-Jun				

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-23	0.21	0.27	0.42	0.27	0.25	0.32	0.30
Aug-23	0.21	0.60	0.63	0.42	0.42	0.50	0.46
Sep-23	0.26	0.28	0.46	0.41	0.33	0.51	0.37
Oct-23	0.26	0.48	0.63	0.43	0.39	0.42	0.43
Nov-23	0.83	1.31	0.94	0.67	0.59	0.75	0.87
Dec-23	0.53	0.87	0.88	1.25	0.93	0.71	0.85
Jan-24	0.53	0.98	0.85	0.87	0.75	0.78	0.79
Feb-24	0.55	0.81	0.89	0.63	0.48	OFF	0.68
Mar-24	0.86	0.58	0.97	0.69	0.84	OFF	0.79
Apr-24	0.27	0.66	0.55	0.69	0.68	OFF	0.58
May-24	0.25	0.91	0.56	1.10	0.81	OFF	0.75
Jun-24	0.30	1.03	0.45	0.68	0.54	OFF	0.60

ADDENDUM TO MONTHLY EMISSIONS REPORT

12. DAILY EMISSIONS FIGURES

Final Dust Concentration (mg/Nm³)

Date	U1	U2	U3	U4	U5	U6	Limit
31-May	78	688	94	990	OFF	OFF	100
01-Jun	76	41	163	499	OFF	OFF	100
02-Jun	45	69	OFF	60	OFF	OFF	100
03-Jun	99	100	108	85	OFF	OFF	100
04-Jun	19	130	87	83	OFF	OFF	100
05-Jun	25	86	87	80	OFF	OFF	100
06-Jun	32	113	75	150	OFF	OFF	100
07-Jun	35	73	89	45	151	OFF	100
08-Jun	169	73	72	512	77	OFF	100
09-Jun	25	89	153	OFF	90	OFF	100
10-Jun	73	95	110	278	OFF	OFF	100
11-Jun	16	205	122	69	146	OFF	100
12-Jun	20	80	92	157	182	OFF	100
13-Jun	30	156	143	68	157	OFF	100
14-Jun	29	89	44	273	87	OFF	100
15-Jun	21	222	54	OFF	159	OFF	100
16-Jun	32	126	56	OFF	OFF	OFF	100
17-Jun	81	253	60	OFF	OFF	OFF	100
18-Jun	35	84	61	OFF	OFF	OFF	100
19-Jun	82	286	77	OFF	297	OFF	100
20-Jun	127	73	65	297	90	OFF	100
21-Jun	60	85	71	42	112	OFF	100
22-Jun	52	565	79	38	67	OFF	100
23-Jun	45	162	89	59	77	OFF	100
24-Jun	197	337	121	92	73	OFF	100
25-Jun	69	330	292	150	58	OFF	100
26-Jun	82	219	82	153	61	OFF	100
27-Jun	83	256	71	221	83	OFF	100
28-Jun	91	907	89	86	153	OFF	100
29-Jun	64	468	84	82	43	OFF	100
30-Jun	68	880	94	78	56	OFF	100

ADDENDUM TO MONTHLY EMISSIONS REPORT

Final SOx Concentration (mg/Nm³)

Date	U1	U2	U3	U4	U5	U6	Limit
31-May	1733	1744	1896	1755	OFF	OFF	3500
01-Jun	1696	1790	1819	1774	OFF	OFF	3500
02-Jun	1515	1713	1510	1590	OFF	OFF	3500
03-Jun	1639	1784	1693	1700	OFF	OFF	3500
04-Jun	1797	2040	1866	1836	OFF	OFF	3500
05-Jun	1614	1745	1549	1610	OFF	OFF	3500
06-Jun	1629	1810	1643	1650	1760	OFF	3500
07-Jun	1553	1640	1554	1515	1567	OFF	3500
08-Jun	1449	1574	1519	1763	1536	OFF	3500
09-Jun	1438	1654	1608	1558	1581	OFF	3500
10-Jun	1610	1810	1686	1536	1528	OFF	3500
11-Jun	1714	1836	1663	1609	1707	OFF	3500
12-Jun	1693	1752	1679	1633	1839	OFF	3500
13-Jun	1653	1740	1852	1659	1803	OFF	3500
14-Jun	1648	1901	1886	1606	1849	OFF	3500
15-Jun	1715	1961	1900	OFF	1682	OFF	3500
16-Jun	1731	1813	1948	OFF	OFF	OFF	3500
17-Jun	1734	1833	1924	OFF	OFF	OFF	3500
18-Jun	1753	1799	1918	OFF	1579	OFF	3500
19-Jun	1777	1874	1929	1694	1701	OFF	3500
20-Jun	1809	1819	1986	1724	1598	OFF	3500
21-Jun	1756	1822	1916	1752	1603	OFF	3500
22-Jun	1709	1866	1917	1695	1559	OFF	3500
23-Jun	1749	1921	1962	1767	1672	OFF	3500
24-Jun	1777	1856	2000	1770	1674	OFF	3500
25-Jun	1905	1851	2005	1754	1737	OFF	3500
26-Jun	1856	1846	2015	1877	1832	OFF	3500
27-Jun	1908	1902	2068	1989	1824	OFF	3500
28-Jun	1997	1988	2155	1889	1843	OFF	3500
29-Jun	1856	1930	2079	1841	1772	OFF	3500
30-Jun	1820	1911	1951	1765	1753	OFF	3500

ADDENDUM TO MONTHLY EMISSIONS REPORT

Final NOx Concentration (mg/Nm³)

Date	U1	U2	U3	U4	U5	U6	Limit
31-May	984	569	736	874	OFF	OFF	1100
01-Jun	1020	533	799	890	OFF	OFF	1100
02-Jun	1060	677	579	811	OFF	OFF	1100
03-Jun	1059	719	613	889	OFF	OFF	1100
04-Jun	1061	705	709	933	OFF	OFF	1100
05-Jun	984	795	682	946	OFF	OFF	1100
06-Jun	1033	767	605	892	626	OFF	1100
07-Jun	1044	653	683	872	765	OFF	1100
08-Jun	1002	598	733	504	745	OFF	1100
09-Jun	1028	664	732	620	757	OFF	1100
10-Jun	1011	650	779	995	743	OFF	1100
11-Jun	936	634	699	870	766	OFF	1100
12-Jun	783	691	634	865	757	OFF	1100
13-Jun	854	784	793	887	739	OFF	1100
14-Jun	916	794	808	746	804	OFF	1100
15-Jun	867	673	789	OFF	762	OFF	1100
16-Jun	670	794	797	OFF	OFF	OFF	1100
17-Jun	915	717	769	OFF	OFF	OFF	1100
18-Jun	965	715	656	OFF	777	OFF	1100
19-Jun	907	711	640	967	837	OFF	1100
20-Jun	969	727	706	801	786	OFF	1100
21-Jun	886	731	714	769	758	OFF	1100
22-Jun	986	749	731	847	793	OFF	1100
23-Jun	937	737	763	711	792	OFF	1100
24-Jun	936	717	788	746	737	OFF	1100
25-Jun	1006	676	806	854	726	OFF	1100
26-Jun	1029	708	816	892	745	OFF	1100
27-Jun	1009	683	788	862	714	OFF	1100
28-Jun	912	675	741	880	693	OFF	1100
29-Jun	965	719	730	835	622	OFF	1100
30-Jun	925	731	806	826	674	OFF	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-23	100.00%	0.0	100.00%	0.0	99.19%	1.0	100.00%	0.0	100.00%	0.0	99.22%	1.0
Aug-23	100.00%	0.0	100.00%	0.0	98.46%	1.9	100.00%	0.0	99.23%	1.0	99.12%	1.1
Sep-23	99.17%	1.0	100.00%	0.0	98.51%	1.8	100.00%	0.0	98.34%	2.0	99.17%	1.0
Oct-23	99.98%	0.0	96.81%	4.0	98.31%	2.1	100.00%	0.0	99.34%	0.8	99.30%	0.9
Nov-23	97.53%	2.96	97.57%	2.92	99.17%	1.00	100.00%	0.00	100.00%	0.00	99.71%	0.35
Dec-23	100.00%	0.0	97.95%	2.5	100.00%	0.0	98.62%	1.7	98.03%	2.4	97.91%	2.6
Jan-24	97.90%	2.6	98.73%	1.6	100.00%	0.0	100.00%	0.0	99.32%	0.8	100.00%	0.0
Feb-24	100.00%	0.0	99.34%	0.8	98.42%	1.8	99.89%	0.1	100.00%	0.0	Off-line	Off-line
Mar-24	100.00%	0.0	99.19%	1.0	100.00%	0.0	97.53%	3.1	99.19%	1.0	100.00%	0.00%
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	100.00%	0.00	100.00%	0.00

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-23	97.98%	0.6	97.83%	0.7	100.00%	0.0	97.85%	0.7	99.67%	0.1	100.00%	0.0
Aug-23	99.33%	0.2	95.61%	1.4	100.00%	0.0	97.47%	0.8	100.00%	0.0	100.00%	0.0
Sep-23	100.00%	0.0	98.19%	0.5	98.75%	0.4	99.72%	0.1	99.58%	0.1	95.83%	1.3
Oct-23	99.73%	0.1	100.00%	0.0	96.91%	1.0	100.00%	0.0	100.00%	0.0	97.27%	0.8
Nov-23	95.14%	1.5	94.17%	1.8	83.89%	4.8	86.14%	4.2	89.17%	3.3	94.62%	1.6
Dec-23	92.47%	2.3	97.67%	0.7	81.25%	5.8	84.48%	4.8	93.82%	1.9	85.62%	4.5
Jan-24	95.73%	1.3	90.43%	3.0	69.76%	9.4	91.80%	2.5	89.78%	3.2	95.24%	1.5
Feb-24	99.92%	0.0	87.56%	3.6	98.85%	0.3	95.65%	1.3	88.10%	3.5	Off-line	Off-line
Mar-24	99.33%	0.21	93.76%	1.94	84.86%	4.69	100.00%	0.00	100.00%	0.00	Off-line	Off-line
Apr-24	99.46%	0.2	93.92%	1.8	99.58%	0.1	100.00%	0.0	100.00%	0.0	Off-line	Off-line
May-24	99.45%	0.2	99.87%	0.0	96.37%	1.1	99.87%	0.0	100.00%	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

ADDENDUM TO MONTHLY EMISSIONS REPORT

Particulate Emission Monitors

Availability						
	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Jul-23	98.92%	100.00%	99.60%	99.73%	98.33%	99.87%
Aug-23	99.73%	92.28%	99.22%	98.85%	97.85%	98.79%
Sep-23	99.44%	98.61%	98.89%	99.03%	97.99%	97.98%
Oct-23	100.00%	96.51%	99.33%	99.73%	98.66%	99.69%
Nov-23	92.92%	86.39%	94.86%	98.60%	97.64%	96.16%
Dec-23	98.12%	92.68%	95.74%	90.32%	95.03%	97.85%
Jan-24	98.28%	85.65%	94.35%	90.76%	92.88%	97.82%
Feb-24	96.67%	93.82%	93.39%	96.10%	98.81%	OFF
Mar-24	94.09%	97.49%	96.46%	97.18%	95.83%	OFF
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

Gaseous Emission Monitors

Availability												
	Unit 1		Unit 2		Unit 3		Unit 4		Unit 5		Unit 6	
Month	SO _x	NO _x	SO _x	NO _x	SO _x	NO _x	SO _x	NO _x	SO _x	NO _x	SO _x	NO _x
Jul-23	98.39%	98.39%	98.08%	97.95%	98.12%	98.39%	98.39%	98.25%	97.92%	97.92%	98.25%	98.39%
Aug-23	100.00%	100.00%	99.83%	99.83%	100.00%	100.00%	99.86%	100.00%	100.00%	100.00%	100.00%	100.00%
Sep-23	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	99.85%	99.85%
Oct-23	99.46%	99.46%	99.33%	99.46%	99.19%	99.19%	99.46%	99.46%	99.33%	99.46%	99.40%	99.40%
Nov-23	100.00%	100.00%	99.72%	99.86%	99.86%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	99.73%
Dec-23	100.00%	100.00%	100.00%	100.00%	100.00%	98.95%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Jan-24	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	99.87%	100.00%	100.00%	100.00%
Feb-24	98.08%	98.08%	99.78%	98.95%	98.28%	98.28%	97.83%	97.83%	97.73%	97.73%	OFF	OFF
Mar-24	99.73%	99.73%	100.00%	100.00%	99.62%	99.43%	99.73%	99.60%	99.73%	99.87%	OFF	OFF
Apr-24	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	OFF	OFF
May-24	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	98.79%	98.79%	98.37%	98.37%	OFF	OFF
Jun-24	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	OFF	OFF

Oxygen Monitor Availability						
	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Jul-23	98.12%	97.76%	98.12%	98.25%	100.00%	97.72%
Aug-23	100.00%	99.83%	99.87%	99.72%	100.00%	99.60%
Sep-23	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Oct-23	99.33%	99.06%	99.19%	99.33%	100.00%	99.40%
Nov-23	99.86%	99.72%	99.86%	100.00%	100.00%	99.58%
Dec-23	100.00%	99.83%	99.81%	99.72%	100.00%	99.46%
Jan-24	99.87%	99.86%	100.00%	100.00%	100.00%	98.10%
Feb-24	97.92%	99.78%	97.84%	97.67%	97.54%	OFF
Mar-24	99.73%	100.00%	99.24%	99.87%	99.87%	OFF
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%	#VALUE!

ADDENDUM TO MONTHLY EMISSIONS REPORT

14. EFFICIENCY

ESP Efficiency (%)						
	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Jul-23	99.904%	99.864%	99.793%	99.869%	99.880%	99.837%
Aug-23	99.912%	99.715%	99.715%	99.816%	99.818%	99.770%
Sep-23	99.895%	99.867%	99.793%	99.825%	99.860%	99.766%
Oct-23	99.908%	99.804%	99.749%	99.830%	99.849%	99.829%
Nov-23	99.715%	99.499%	99.652%	99.764%	99.775%	99.705%
Dec-23	99.776%	99.585%	99.592%	99.414%	99.576%	99.667%
Jan-24	99.833%	99.641%	99.694%	99.692%	99.737%	99.721%
Feb-24	99.834%	99.719%	99.697%	99.788%	99.835%	Unit Off-line
Mar-24	99.519%	99.614%	99.393%	99.559%	99.474%	Unit Off-line
Apr-24	99.901%	99.698%	99.774%	99.704%	99.714%	Unit Off-line
May-24	99.906%	99.582%	99.771%	99.525%	99.654%	Unit Off-line
Jun-24	99.89%	99.55%	99.82%	99.62%	99.75%	Unit Off-line

15. REMARKS

UNIT	MWLOSS	REASON	ACTUALSTARTDATE	ACTUALENDDATE
1	122	C Mill grease system defective	2024/06/04 16:26:00	2024/06/04 20:16:00
1	118	A Mill seal air fan bearing defective	2024/06/05 16:12:00	2024/06/05 18:20:00
1	593	Low drum level due to EFP B tripped.	2024/06/08 08:55:00	2024/06/08 14:13:00
1	297	System Generated Ramp Event for Event id : 1941535	2024/06/08 14:13:00	2024/06/08 15:43:00
1	166	AM: Mills & feeders o/c.	2024/06/08 15:43:00	2024/06/08 19:41:00
1	178	Mills & feeders out of comission.	2024/06/08 19:41:00	2024/06/09 00:38:00
1	215	Mills & feeders out of comission.	2024/06/09 00:38:00	2024/06/09 02:40:00
1	202	Spinning Reserve	2024/06/09 01:36:00	2024/06/09 04:58:00
1	183	Spinning Reserve	2024/06/09 04:58:00	2024/06/09 06:25:00
1	118	F Mill 4000hrs service	2024/06/11 00:00:00	2024/06/17 21:57:00
1	55	Mill B DE pinion vibrations.	2024/06/11 17:10:00	2024/06/11 22:02:00
1	50	A Mill short feeder defective	2024/06/12 01:44:00	2024/06/12 04:20:00
1	48	Spinning Reserve	2024/06/12 02:57:00	2024/06/12 04:20:00
1	51	A Mill short feeder defective	2024/06/12 04:20:00	2024/06/12 09:32:00
1	150	AM: A mill blocked.	2024/06/12 09:32:00	2024/06/12 18:12:00
1	35	AM: D mill long feeder blocked.	2024/06/12 18:12:00	2024/06/13 07:52:00
1	35	Boiler unstable due to poor coal quality	2024/06/13 07:52:00	2024/06/17 15:32:00
1	64	Spinning Reserve	2024/06/14 09:06:00	2024/06/14 16:02:00
1	65	Spinning Reserve	2024/06/15 10:30:00	2024/06/15 15:50:00
1	115	Spinning Reserve	2024/06/15 22:22:00	2024/06/16 04:20:00
1	133	Mill A choked	2024/06/16 04:20:00	2024/06/16 13:19:00
1	65	Spinning Reserve	2024/06/16 23:31:00	2024/06/17 05:06:00
1	65	D&E mill feeder problems due to poor coal quality.	2024/06/17 07:23:00	2024/06/17 15:34:00
1	30	EF: Boiler unstable due to poor coal quality	2024/06/17 15:32:00	2024/06/17 21:57:00
1	70	A,C,D,E mill feeder hang ups due to poor coal quality	2024/06/17 17:34:00	2024/06/17 20:19:00
1	38	EF: High PA flows	2024/06/17 20:19:00	2024/06/17 21:57:00
1	117	Spinning Reserve	2024/06/17 21:57:00	2024/06/17 23:54:00
1	215	Spinning Reserve	2024/06/17 23:54:00	2024/06/18 04:14:00
1	143	Spinning Reserve	2024/06/18 04:14:00	2024/06/18 05:06:00
1	118	Spinning Reserve	2024/06/18 05:06:00	2024/06/18 12:46:00
1	118	A,C,D,E mill feeder hang ups due to poor coal quality	2024/06/18 12:46:00	2024/06/19 00:05:00
1	118	AM: D mill DE Jacking Oil pump replacement	2024/06/19 00:05:00	2024/06/19 05:39:00
1	100	Spinning Reserve	2024/06/19 00:05:00	2024/06/19 00:54:00
1	82	Spinning Reserve	2024/06/19 01:08:00	2024/06/19 01:33:00
1	75	Spinning Reserve	2024/06/19 01:33:00	2024/06/19 04:05:00
1	75	EF: High PA flows dueto coal quality	2024/06/19 04:05:00	2024/06/19 05:39:00
1	88	EF: A, D & F mill feeder coal hang-ups	2024/06/19 05:39:00	2024/06/19 06:51:00
1	118	A, D & F mill feeder coal hang-ups	2024/06/19 06:51:00	2024/06/19 16:25:00
1	100	E-mill no feeders not available	2024/06/19 14:39:00	2024/06/19 16:24:00
1	68	A-mill in service with one feeder.	2024/06/19 16:25:00	2024/06/20 07:58:00
1	52	Spinning Reserve	2024/06/19 23:34:00	2024/06/20 04:09:00
1	147	Coal constraints	2024/06/20 05:53:00	2024/06/20 07:58:00
1	217	Coal constraints	2024/06/20 07:58:00	2024/06/20 16:56:00
1	88	Boiler pressure unstable due poor coal quality	2024/06/20 16:56:00	2024/06/21 16:43:00
1	124	Spinning Reserve	2024/06/20 22:53:00	2024/06/21 03:20:00
1	122	EF: Coal constraints.	2024/06/21 03:20:00	2024/06/21 06:48:00
1	71	Coal constraints	2024/06/21 06:48:00	2024/06/21 16:43:00
1	59	Spinning Reserve	2024/06/21 11:59:00	2024/06/21 16:20:00
1	58	Boiler pressure unstable due poor coal quality	2024/06/21 16:43:00	2024/06/24 11:04:00
1	157	EF: Coal constraints.	2024/06/21 22:09:00	2024/06/22 16:32:00

UNIT	MWLOSS	REASON	ACTUALSTARTDATE	ACTUALENDDATE
1	164	Spinning Reserve	2024/06/22 20:06:00	2024/06/23 00:01:00
1	182	Spinning Reserve	2024/06/23 00:01:00	2024/06/23 07:26:00
1	162	Spinning Reserve	2024/06/24 00:58:00	2024/06/24 04:27:00
1	58	A,C;D;E mill feeder hang ups due to poor coal quality.	2024/06/24 11:04:00	2024/06/25 09:52:00
1	148	EF: A;C;D;E mill feeder hang ups due to poor coal quality.	2024/06/25 09:52:00	2024/06/25 10:01:00
1	96	EF: A;C;D;E mill feeder hang ups due to poor coal quality.	2024/06/25 10:01:00	2024/06/25 12:22:00
1	58	EF:A;C;D;E mill feeder hang ups - poor coal quality.	2024/06/25 12:22:00	2024/06/26 08:32:00
1	18	AM: D mill long feeder on PTW	2024/06/26 08:32:00	2024/06/26 16:27:00
1	15	AM: Mill E Short feeder o/c.	2024/06/26 16:27:00	2024/06/28 05:08:00
1	18	AM: F-Mill long feeder on PTW.	2024/06/28 05:08:00	2024/06/30 04:45:00
1	110	Spinning Reserve	2024/06/29 08:11:00	2024/06/29 09:53:00
1	100	F Mill trunnion lube oil pump defective	2024/06/29 12:00:00	2024/06/29 18:01:00
2	237	AM:High dust hopper levels	2024/06/01 00:00:00	2024/06/01 01:30:00
2	218	AM: High hoppers levels.	2024/06/01 01:30:00	2024/06/02 05:03:00
2	218	Spinning Reserve	2024/06/02 05:03:00	2024/06/02 05:06:00
2	118	Spinning Reserve	2024/06/03 03:32:00	2024/06/03 04:20:00
2	185	High stack emissions.	2024/06/03 20:08:00	2024/06/04 05:40:00
2	109	High stack emissions	2024/06/05 12:33:00	2024/06/05 17:29:00
2	38	Spinning Reserve	2024/06/07 06:12:00	2024/06/07 09:19:00
2	29	Spinning Reserve	2024/06/07 09:19:00	2024/06/07 10:15:00
2	118	AM: F mill feeders problems.	2024/06/07 14:51:00	2024/06/08 07:59:00
2	111	Spinning Reserve	2024/06/08 13:15:00	2024/06/08 14:38:00
2	103	AM: A+D Mills & running mill feeders o/c.	2024/06/08 14:38:00	2024/06/08 15:12:00
2	131	AM: A+D Mills & running mill feeders o/c.	2024/06/08 15:12:00	2024/06/08 21:34:00
2	156	A+D Mills & running mill feeders o/c.	2024/06/08 21:34:00	2024/06/09 00:39:00
2	174	A+D Mills & running mill feeders o/c.	2024/06/09 00:39:00	2024/06/09 07:18:00
2	118	A mill long feeder blocked, D mill on PTW.	2024/06/09 07:18:00	2024/06/10 07:00:00
2	188	AM: A+B Mills & F+C feeders o/c.	2024/06/10 07:00:00	2024/06/10 16:28:00
2	116	AM: A,C&F mills problems-each mill in service with one feeder.	2024/06/10 16:28:00	2024/06/10 19:44:00
2	193	A Mill blocked & D mills trunnion seal repairs	2024/06/10 19:44:00	2024/06/11 12:07:00
2	164	A Mill blocked,C Mill FDR pulley faulty & D mills trunnion seal repairs	2024/06/11 12:07:00	2024/06/12 12:29:00
2	12	Spinning Reserve	2024/06/12 10:34:00	2024/06/12 12:28:00
2	115	C Mill FDR pulley faulty & D mills trunnion seal repairs	2024/06/12 12:29:00	2024/06/13 00:10:00
2	68	C Mill FDR pulley faulty & D mills trunnion seal repairs	2024/06/13 00:10:00	2024/06/13 00:27:00
2	38	F-mill running with one feeder blocked	2024/06/13 17:58:00	2024/06/13 18:36:00
2	18	Unstable combustion due to poor coal quality	2024/06/13 19:03:00	2024/06/15 02:49:00
2	100	D&E mill not available	2024/06/14 04:20:00	2024/06/15 02:49:00
2	70	Spinning Reserve	2024/06/14 09:09:00	2024/06/14 11:10:00
2	593	Generator rotor earth fault.	2024/06/15 02:49:00	2024/06/15 18:12:00
2	296	System Generated Ramp Event for Event id : 1944019	2024/06/15 18:12:00	2024/06/15 20:42:00
2	118	E Mill grease system	2024/06/15 21:12:00	2024/06/17 00:01:00
2	53	F-mill running with one feeder due to coal quality	2024/06/15 21:12:00	2024/06/15 21:35:00
2	37	F-mill running with one feeder due to coal quality	2024/06/15 21:35:00	2024/06/15 21:44:00
2	18	F-mill running with one feeder due to coal quality	2024/06/15 21:44:00	2024/06/16 04:52:00
2	117	A,B&C mills coal hang ups	2024/06/16 21:07:00	2024/06/16 21:22:00
2	51	A,B&C mills coal hang ups due to poor coal quality.	2024/06/16 21:22:00	2024/06/18 08:12:00
2	18	Spinning Reserve	2024/06/16 23:18:00	2024/06/17 00:24:00
2	118	E-mill grease system	2024/06/17 00:01:00	2024/06/22 00:00:00
2	18	Spinning Reserve	2024/06/17 23:57:00	2024/06/18 04:04:00
2	18	B-mill in service with one feeder due coal quality	2024/06/18 08:12:00	2024/06/20 08:03:00
2	80	High stack emissions.	2024/06/18 17:01:00	2024/06/20 08:03:00
2	98	High stack emissions.	2024/06/20 08:03:00	2024/06/20 09:01:00
2	98	Coal constraints	2024/06/20 09:01:00	2024/06/20 16:21:00
2	30	PA flow high	2024/06/20 16:21:00	2024/06/21 06:42:00
2	64	Spinning Reserve	2024/06/20 22:41:00	2024/06/21 03:20:00
2	66	EF: Coal constraints.	2024/06/21 03:20:00	2024/06/21 06:42:00

UNIT	MWLOSS	REASON	ACTUALSTARTDATE	ACTUALENDDATE
2	40	PA flow high	2024/06/21 06:42:00	2024/06/21 16:35:00
2	53	High stack emissions.	2024/06/21 11:39:00	2024/06/21 16:35:00
2	50	PA flow high	2024/06/21 16:35:00	2024/06/22 18:18:00
2	48	EF: Coal constraints.	2024/06/21 21:02:00	2024/06/22 07:00:00
2	118	AM: LHI Casing repairs	2024/06/22 00:00:00	2024/06/23 00:00:00
2	43	EF: Coal constraints	2024/06/22 07:00:00	2024/06/22 18:18:00
2	93	Boiler pressure unstable	2024/06/22 18:18:00	2024/06/24 11:51:00
2	118	Spinning Reserve	2024/06/23 00:00:00	2024/06/23 16:49:00
2	74	SO3 plant repairs	2024/06/23 16:49:00	2024/06/23 19:35:00
2	63	AM: SO3 plant repairs	2024/06/23 19:35:00	2024/06/24 09:59:00
2	31	Spinning Reserve	2024/06/23 22:00:00	2024/06/24 04:12:00
2	115	SO3 plant repairs.	2024/06/24 09:59:00	2024/06/24 11:51:00
2	118	D Mill &E mills on ptw for girth gear turning	2024/06/24 11:51:00	2024/06/30 23:59:59
2	96	SO3 plant repairs.	2024/06/24 11:51:00	2024/06/26 13:53:00
2	40	SO3 plant repairs	2024/06/26 13:53:00	2024/06/26 14:00:00
2	30	AM: SO3 plant repairs	2024/06/26 14:00:00	2024/06/30 23:59:59
2	68	PA flow high	2024/06/26 22:17:00	2024/06/27 16:25:00
2	28	EF: High PA flows.	2024/06/27 16:25:00	2024/06/28 06:50:00
2	36	Spinning Reserve	2024/06/27 23:30:00	2024/06/28 02:47:00
2	38	EF: High PA flow	2024/06/28 06:50:00	2024/06/28 07:41:00
2	45	EF: High PA flows	2024/06/28 07:41:00	2024/06/30 23:59:59
3	58	AM: ID Fans not coping.	2024/06/01 00:00:00	2024/06/01 21:43:00
3	60	AM: RHI Precip casing washing & repairs	2024/06/01 00:00:00	2024/06/01 21:43:00
3	100	Spinning Reserve	2024/06/01 00:00:00	2024/06/01 16:14:00
3	100	AM: T14C on PTW	2024/06/01 16:14:00	2024/06/01 20:18:00
3	140	AM: T14C coal conveyor fail to start	2024/06/01 20:18:00	2024/06/01 21:02:00
3	150	AM: T14C - Coal conveyor fails to start	2024/06/01 21:02:00	2024/06/01 21:43:00
3	593	AM: Coal bunkers empty.	2024/06/01 21:43:00	2024/06/02 09:47:00
3	585	System Generated Ramp Event for Event id : 1938958 (Recalculated)	2024/06/02 09:47:00	2024/06/02 09:51:00
3	593	Unit tripped below block load on HP exhaust temp high	2024/06/02 09:51:00	2024/06/02 10:10:00
3	297	System Generated Ramp Event for Event id : 1939118	2024/06/02 10:10:00	2024/06/02 11:40:00
3	260	Mill A PA PF isolating damper fails to open. Mill F short feeder belt misaligne	2024/06/02 12:40:00	2024/06/02 12:49:00
3	101	Mill A PA PF isolating damper fails to open. Mill F short feeder belt misaligne	2024/06/02 12:49:00	2024/06/03 03:06:00
3	118	RHI precip Casing Washing	2024/06/02 12:49:00	2024/06/03 22:06:00
3	50	AM: D mill short feeder conveyor belt misaligned.	2024/06/03 03:06:00	2024/06/03 04:48:00
3	50	Spinning Reserve	2024/06/03 03:06:00	2024/06/03 04:23:00
3	100	AM:D mill short feeder conveyor belt misaligned, A&C mill unavailable.	2024/06/03 04:48:00	2024/06/04 17:30:00
3	53	Boiler pressure unstable	2024/06/03 22:06:00	2024/06/04 17:30:00
3	61	EF:High stack emissions	2024/06/04 15:07:00	2024/06/04 16:32:00
3	168	EF:High stack emissions	2024/06/04 17:30:00	2024/06/04 20:15:00
3	218	EF:High stack emissions	2024/06/04 20:15:00	2024/06/05 07:37:00
3	168	EF:High stack emissions	2024/06/05 07:37:00	2024/06/05 19:26:00
3	48	Spinning Reserve	2024/06/05 07:37:00	2024/06/05 16:22:00
3	216	High stack emissions.	2024/06/05 19:26:00	2024/06/07 13:41:00
3	118	EF: High stack emissions	2024/06/07 13:41:00	2024/06/08 01:01:00
3	218	EF: High stack emissions	2024/06/08 01:01:00	2024/06/09 00:00:00
3	217	T12 C Splice repairs	2024/06/09 00:00:00	2024/06/09 19:08:00
3	118	High stack emissions.	2024/06/09 19:08:00	2024/06/10 01:34:00
3	217	High stack emissions.	2024/06/10 01:34:00	2024/06/10 12:32:00
3	175	AM: High stack emissions.	2024/06/10 12:32:00	2024/06/11 09:44:00
3	47	Spinning Reserve	2024/06/11 00:30:00	2024/06/11 09:43:00
3	247	High stack emissions.	2024/06/11 09:44:00	2024/06/11 17:02:00
3	115	High stack emissions	2024/06/11 17:02:00	2024/06/11 20:23:00
3	218	EF:High stack emissions	2024/06/11 20:23:00	2024/06/11 23:33:00
3	238	EF:High stack emissions	2024/06/11 23:33:00	2024/06/13 01:13:00
3	218	AM: High stack emissions.	2024/06/13 01:13:00	2024/06/13 07:27:00

UNIT	MWLOSS	REASON	ACTUALSTARTDATE	ACTUALENDDATE
3	45	E Mill blocked	2024/06/13 04:56:00	2024/06/13 05:36:00
3	140	E Mill blocked	2024/06/13 05:36:00	2024/06/13 10:38:00
3	149	High stack emissions.	2024/06/13 07:27:00	2024/06/13 08:14:00
3	126	High stack emissions	2024/06/13 08:14:00	2024/06/13 10:38:00
3	138	E Mill blocked due to poor coal quality	2024/06/13 10:38:00	2024/06/17 17:09:00
3	30	PA flow high	2024/06/13 14:08:00	2024/06/16 14:53:00
3	50	Unstable boiler combustion	2024/06/13 21:19:00	2024/06/16 14:53:00
3	40	B,C&D mills running with one feeder each.	2024/06/16 06:00:00	2024/06/16 14:29:00
3	76	B-mill lost both feeders.	2024/06/16 16:17:00	2024/06/17 00:27:00
3	34	A-mill feeders blocked.	2024/06/16 21:33:00	2024/06/17 00:28:00
3	78	A-mill feeders blocked due to poor coal quality	2024/06/17 00:28:00	2024/06/18 04:14:00
3	69	E-mill running with one feeder due to poor coal quality	2024/06/17 17:09:00	2024/06/18 04:14:00
3	21	Spinning Reserve	2024/06/17 21:57:00	2024/06/17 23:29:00
3	70	Spinning Reserve	2024/06/17 23:29:00	2024/06/18 04:14:00
3	138	AM: B, D & E mills in service with one feeder each.	2024/06/18 04:14:00	2024/06/18 10:40:00
3	144	E-mill severe PF leak.	2024/06/18 09:23:00	2024/06/18 10:40:00
3	593	Tripped on high condenser vacuum	2024/06/18 10:40:00	2024/06/18 13:48:00
3	297	System Generated Ramp Event for Event id : 1945317	2024/06/18 13:48:00	2024/06/18 15:18:00
3	441	A,D,E,&F Mills not available	2024/06/18 15:18:00	2024/06/18 16:48:00
3	444	A,D,E,&F Mills not available	2024/06/18 16:48:00	2024/06/18 18:27:00
3	352	AM:F & D mill not available	2024/06/18 18:27:00	2024/06/18 19:24:00
3	338	AM: D & F mill not available	2024/06/18 19:24:00	2024/06/18 20:47:00
3	288	AM: B&F mill feeders problems and A&D on PTW	2024/06/18 20:47:00	2024/06/18 22:03:00
3	218	AM: B&F mill feeder problems and A&D on PTW	2024/06/18 22:03:00	2024/06/21 17:07:00
3	167	AM: B&F mill feeder problems and A&D on PTW	2024/06/21 17:07:00	2024/06/21 18:43:00
3	224	AM: B&F mill feeder problems and A on PTW	2024/06/21 18:43:00	2024/06/22 16:36:00
3	138	AM: B mill in service with one feeder and A-mill on PTW	2024/06/22 16:36:00	2024/06/23 11:52:00
3	78	Spinning Reserve	2024/06/22 19:52:00	2024/06/23 11:40:00
3	118	AM: B mill in service with one feeder and A-mill on PTW	2024/06/23 11:52:00	2024/06/24 07:42:00
3	98	Spinning Reserve	2024/06/23 13:39:00	2024/06/23 17:15:00
3	37	Spinning Reserve	2024/06/23 17:15:00	2024/06/23 17:21:00
3	100	EF: High stack emissions	2024/06/23 21:02:00	2024/06/23 21:55:00
3	97	Spinning Reserve	2024/06/23 21:55:00	2024/06/24 04:59:00
3	84	EF: Poor coal quality	2024/06/24 04:59:00	2024/06/24 07:42:00
3	58	ID Fans not coping	2024/06/24 07:42:00	2024/06/30 23:59:59
3	60	Boiler unstable due to Poor coal quality	2024/06/24 07:42:00	2024/06/25 05:54:00
3	98	High stack emissions	2024/06/24 13:27:00	2024/06/24 15:59:00
3	94	Spinning Reserve	2024/06/25 02:06:00	2024/06/25 05:11:00
3	37	Spinning Reserve	2024/06/25 05:11:00	2024/06/25 05:54:00
3	61	Boiler unstable due to Poor coal quality	2024/06/25 05:54:00	2024/06/30 23:59:59
3	95	Manual rapping	2024/06/25 20:37:00	2024/06/25 23:30:00
3	95	EF: High stack emissions	2024/06/25 23:30:00	2024/06/26 16:29:00
3	95	High stack emissions	2024/06/26 19:06:00	2024/06/27 16:14:00
3	15	AM: High stack emissions.	2024/06/27 16:14:00	2024/06/27 19:23:00
3	92	High stack emissions	2024/06/27 19:23:00	2024/06/28 06:28:00
3	19	High stack emissions.	2024/06/28 06:28:00	2024/06/28 06:47:00
3	95	EF:High stack emissions	2024/06/28 12:54:00	2024/06/29 07:41:00
3	96	Spinning Reserve	2024/06/29 07:41:00	2024/06/29 09:26:00
3	96	Spinning Reserve	2024/06/29 10:08:00	2024/06/29 16:23:00
3	96	AM: High stack emissions.	2024/06/29 19:20:00	2024/06/30 04:40:00
3	94	Spinning Reserve	2024/06/30 04:40:00	2024/06/30 16:26:00
3	97	EF: High Nox	2024/06/30 21:20:00	2024/06/30 23:59:59
4	118	RHO precip casing.	2024/06/01 00:00:00	2024/06/01 12:25:00
4	20	EF: Boiler critical pressure in negative	2024/06/01 00:00:00	2024/06/01 16:24:00
4	30	Spinning Reserve	2024/06/01 10:02:00	2024/06/01 16:24:00
4	118	LHO casing repairs	2024/06/01 12:25:00	2024/06/03 00:15:00

UNIT	MWLOSS	REASON	ACTUALSTARTDATE	ACTUALENDDATE
4	23	EF: Boiler critical pressure in negative	2024/06/01 16:24:00	2024/06/02 05:12:00
4	30	EF: Boiler chemical dosing.	2024/06/01 22:49:00	2024/06/02 04:46:00
4	98	High stack emission	2024/06/02 14:00:00	2024/06/03 00:15:00
4	216	Spinning Reserve	2024/06/03 00:15:00	2024/06/03 01:02:00
4	119	Spinning Reserve	2024/06/03 01:02:00	2024/06/03 02:23:00
4	217	Spinning Reserve	2024/06/03 02:23:00	2024/06/03 03:36:00
4	119	Spinning Reserve	2024/06/03 03:36:00	2024/06/03 04:18:00
4	117	AM: F mill D.E. lub oil pump failure.	2024/06/03 04:18:00	2024/06/03 05:22:00
4	18	ID Fans not coping	2024/06/03 17:45:00	2024/06/03 17:55:00
4	119	Spinning Reserve	2024/06/05 23:55:00	2024/06/06 03:26:00
4	114	Spinning Reserve	2024/06/06 09:16:00	2024/06/06 13:43:00
4	218	Spinning Reserve	2024/06/06 13:43:00	2024/06/06 15:51:00
4	192	Spinning Reserve	2024/06/06 15:51:00	2024/06/06 16:33:00
4	119	AM: A mill feeders problems	2024/06/06 16:34:00	2024/06/06 18:14:00
4	20	EF: Main turbine and BFPF condenser high	2024/06/06 18:14:00	2024/06/08 02:02:00
4	98	Spinning Reserve	2024/06/06 22:42:00	2024/06/07 08:06:00
4	98	EF: A mill short feeder burned and bottom coal gate passing.	2024/06/07 16:17:00	2024/06/08 02:02:00
4	0	Cold Reserve	2024/06/08 02:02:00	2024/06/09 13:09:00
4	296	System Generated Ramp Event for Event id : 1941444	2024/06/09 13:09:00	2024/06/09 15:39:00
4	148	AM: A&D mill not available and B mill-one feeder in service	2024/06/09 16:09:00	2024/06/10 01:28:00
4	49	Spinning Reserve	2024/06/10 00:06:00	2024/06/10 01:16:00
4	20	Spinning Reserve	2024/06/10 01:16:00	2024/06/10 01:27:00
4	140	AM: A&D mill not available and B mill-one feeder in service	2024/06/10 01:28:00	2024/06/10 01:46:00
4	120	AM: A&D mill not available and B mill-one feeder in service	2024/06/10 01:46:00	2024/06/10 01:56:00
4	68	AM: A&D mill not available and B mill-one feeder in service	2024/06/10 01:56:00	2024/06/10 03:09:00
4	53	AM: A&D mill not available and B mill-one feeder in service	2024/06/10 03:09:00	2024/06/10 04:06:00
4	11	AM: A&D mill not available and B mill-one feeder in service	2024/06/10 04:06:00	2024/06/10 04:30:00
4	20	AM: Mill B short feeder burned.	2024/06/10 05:48:00	2024/06/10 07:35:00
4	111	AM: Mill B short feeder burned.	2024/06/10 07:35:00	2024/06/10 08:11:00
4	35	AM: Mill B short feeder burned.	2024/06/10 08:11:00	2024/06/14 02:14:00
4	84	Spinning Reserve	2024/06/10 10:55:00	2024/06/10 13:36:00
4	106	F-mill inlet chute burned	2024/06/11 09:04:00	2024/06/11 21:18:00
4	17	AM: HP turbine control v/v's sliding pressure	2024/06/11 17:06:00	2024/06/11 21:18:00
4	43	AM: HP turbine control v/v's sliding pressure	2024/06/11 21:18:00	2024/06/14 02:30:00
4	38	Spinning Reserve	2024/06/11 23:56:00	2024/06/12 03:56:00
4	116	E Mill long feeder blocked	2024/06/12 03:56:00	2024/06/12 05:38:00
4	37	AM: PA flows high	2024/06/12 17:27:00	2024/06/13 09:35:00
4	21	AM: PA flows high	2024/06/13 09:35:00	2024/06/14 02:14:00
4	218	Boiler tube leak	2024/06/14 02:14:00	2024/06/14 06:07:00
4	593	Boiler tube leak repairs	2024/06/14 06:07:00	2024/06/19 10:34:00
4	297	System Generated Ramp Event for Event id : 1943691	2024/06/19 10:34:00	2024/06/19 13:34:00
4	143	A-mill blocked and B-mill in service with one feeder	2024/06/19 13:34:00	2024/06/19 13:38:00
4	168	A-mill blocked and B-mill in service with one feeder.	2024/06/19 13:38:00	2024/06/19 16:02:00
4	68	B-mill in service with one feeder	2024/06/19 16:02:00	2024/06/19 16:20:00
4	50	B-mill in service with one feeder	2024/06/19 16:20:00	2024/06/20 18:32:00
4	70	Spinning Reserve	2024/06/19 23:35:00	2024/06/20 04:12:00
4	168	Coal constraints	2024/06/20 05:45:00	2024/06/20 18:32:00
4	83	EF: Couple of mills in service with one feeder each.	2024/06/20 18:32:00	2024/06/21 06:41:00
4	134	Spinning Reserve	2024/06/20 22:37:00	2024/06/21 02:31:00
4	112	EF: Coal constraints.	2024/06/21 02:31:00	2024/06/21 06:39:00
4	119	Coal constraints	2024/06/21 06:41:00	2024/06/21 17:06:00
4	38	Boiler temp high due to spraywater v/v faulty.	2024/06/21 17:44:00	2024/06/22 17:22:00
4	179	EF: Coal constraints.	2024/06/21 21:20:00	2024/06/22 17:11:00
4	68	Boiler temp high due to spraywater v/v faulty.	2024/06/22 17:22:00	2024/06/22 17:51:00
4	78	AM: Boiler temp high due to spraywater v/v faulty.	2024/06/22 17:51:00	2024/06/23 16:14:00
4	134	Spinning Reserve	2024/06/22 20:06:00	2024/06/23 07:28:00

UNIT	MWLOSS	REASON	ACTUALSTARTDATE	ACTUALENDDATE
4	39	Spinning Reserve	2024/06/23 12:29:00	2024/06/23 13:41:00
4	118	AM: Boiler temp high due to spraywater v/v faulty.	2024/06/23 16:14:00	2024/06/24 04:30:00
4	93	Spinning Reserve	2024/06/23 22:09:00	2024/06/24 04:30:00
4	98	AM: Boiler temp high due to spraywater v/v faulty	2024/06/24 04:30:00	2024/06/24 17:08:00
4	46	AM: Boiler temp high due to spraywater v/v faulty	2024/06/24 17:08:00	2024/06/25 10:58:00
4	18	EF: Boiler critical pressure in negative.	2024/06/25 10:58:00	2024/06/25 13:14:00
4	32	EF: Coal Quality	2024/06/25 16:17:00	2024/06/26 08:54:00
4	18	High PA flow	2024/06/26 08:54:00	2024/06/27 17:07:00
4	84	EF: PA Flow max.	2024/06/27 17:07:00	2024/06/28 07:51:00
4	134	A bucket elevator tripped on bottom alignment	2024/06/27 22:30:00	2024/06/28 02:32:00
4	124	High hopper levels	2024/06/28 02:32:00	2024/06/28 06:13:00
4	36	High hopper levels	2024/06/28 06:13:00	2024/06/28 07:50:00
4	28	ID Fans not coping	2024/06/28 07:51:00	2024/06/30 23:59:59
4	90	Spinning Reserve	2024/06/29 00:20:00	2024/06/29 02:54:00
4	192	Spinning Reserve	2024/06/29 02:54:00	2024/06/29 07:38:00
4	89	Spinning Reserve	2024/06/29 07:38:00	2024/06/29 13:47:00
4	184	Spinning Reserve	2024/06/29 13:47:00	2024/06/29 15:51:00
4	90	Spinning Reserve	2024/06/29 15:51:00	2024/06/29 16:18:00
4	90	Spinning Reserve	2024/06/29 20:25:00	2024/06/29 21:39:00
4	191	Spinning Reserve	2024/06/29 21:39:00	2024/06/29 22:26:00
4	90	Spinning Reserve	2024/06/29 22:26:00	2024/06/29 23:08:00
4	192	Spinning Reserve	2024/06/29 23:08:00	2024/06/30 14:10:00
4	91	Spinning Reserve	2024/06/30 14:10:00	2024/06/30 15:59:00
5	593	Condenser washing and LP turbine last blade inspection	2024/06/01 00:00:00	2024/06/06 05:10:00
5	296	System Generated Ramp Event for Event id : 1936158 First Outage	2024/06/06 05:10:00	2024/06/06 07:40:00
5	298	System Generated Ramp Event for Event id : 1936343	2024/06/06 07:40:00	2024/06/06 08:10:00
5	235	AM: A Mill NDE jacking oil p/p,E Mill grease sytem & F mills both feeders faul	2024/06/06 08:10:00	2024/06/06 08:16:00
5	248	AM: A Mill NDE jacking oil p/p,E Mill grease sytem & F mills both feeders faul	2024/06/06 08:16:00	2024/06/06 08:57:00
5	225	AM: A Mill NDE jacking oil p/p,E Mill grease sytem & F mills both feeders faul	2024/06/06 08:57:00	2024/06/06 13:30:00
5	109	AM: E Mill grease system & F mill both failed to start	2024/06/06 13:30:00	2024/06/06 13:40:00
5	118	AM: E Mill grease system & F mill both failed to start	2024/06/06 13:40:00	2024/06/06 14:25:00
5	68	AM: HP Turbine control v/v's faulty.	2024/06/06 16:33:00	2024/06/07 16:19:00
5	146	Spinning Reserve	2024/06/06 23:24:00	2024/06/07 03:40:00
5	42	Spinning Reserve	2024/06/07 03:40:00	2024/06/07 16:19:00
5	38	AM: HP Turbine control v/v's faulty.	2024/06/07 16:19:00	2024/06/09 22:22:00
5	179	AM High stack emissions.	2024/06/08 10:53:00	2024/06/09 05:06:00
5	130	AM: High stack emissions.	2024/06/09 11:37:00	2024/06/09 16:12:00
5	200	AM: Coal bunkers low-T7E & shuttle conveyor problems	2024/06/09 16:12:00	2024/06/09 22:22:00
5	593	Coal bunkers low due to shuttle belt torn .	2024/06/09 22:22:00	2024/06/10 18:15:00
5	296	System Generated Ramp Event for Event id : 1942021	2024/06/10 18:15:00	2024/06/10 20:45:00
5	238	SSC standing	2024/06/10 20:45:00	2024/06/11 00:30:00
5	238	Spinning Reserve	2024/06/11 00:30:00	2024/06/11 04:55:00
5	117	Spinning Reserve	2024/06/11 04:55:00	2024/06/11 05:53:00
5	110	Spinning Reserve	2024/06/11 05:53:00	2024/06/11 15:43:00
5	38	HP 1; 2 Turbine control v/v's faulty	2024/06/11 15:43:00	2024/06/13 07:21:00
5	130	EF:High stack emissions	2024/06/11 21:01:00	2024/06/11 22:23:00
5	30	EF:High stack emissions	2024/06/11 22:23:00	2024/06/11 23:04:00
5	74	Spinning Reserve	2024/06/12 00:04:00	2024/06/12 04:18:00
5	77	Spinning Reserve	2024/06/12 10:30:00	2024/06/12 15:16:00
5	114	Spinning Reserve	2024/06/13 23:58:00	2024/06/14 00:27:00
5	188	Spinning Reserve	2024/06/14 00:27:00	2024/06/14 04:46:00
5	186	High stack emissions.	2024/06/14 09:19:00	2024/06/14 09:41:00
5	29	Spinning Reserve	2024/06/14 09:28:00	2024/06/14 16:16:00
5	168	High stack emissions.	2024/06/14 09:41:00	2024/06/14 09:58:00
5	139	High stack emissions.	2024/06/14 09:58:00	2024/06/14 10:58:00
5	106	EF: High stack emissions	2024/06/14 10:58:00	2024/06/14 15:58:00

UNIT	MWLOSS	REASON	ACTUALSTARTDATE	ACTUALENDDATE
5	88	EF: High stack emissions	2024/06/14 15:58:00	2024/06/14 18:39:00
5	38	High stack emissions.	2024/06/14 18:39:00	2024/06/14 19:02:00
5	218	SSC standing due to broken sprocket.	2024/06/15 10:55:00	2024/06/15 21:25:00
5	593	SSC sprocket repairs	2024/06/15 21:25:00	2024/06/17 09:25:00
5	593	SSC sprocket repairs	2024/06/17 09:25:00	2024/06/18 13:39:00
5	297	System Generated Ramp Event for Event id : 1945121	2024/06/18 13:39:00	2024/06/18 16:39:00
5	112	ID fans not coping.	2024/06/18 16:39:00	2024/06/18 16:57:00
5	98	ID fans not coping	2024/06/18 16:57:00	2024/06/19 04:41:00
5	118	Spinning Reserve	2024/06/18 23:57:00	2024/06/19 04:18:00
5	50	Spinning Reserve	2024/06/19 04:18:00	2024/06/19 04:38:00
5	78	ID fans not coping	2024/06/19 04:41:00	2024/06/19 05:03:00
5	38	EF: ID fans not coping	2024/06/19 05:03:00	2024/06/30 23:59:59
5	56	IP front bearing temp high	2024/06/19 13:54:00	2024/06/20 16:21:00
5	22	Spinning Reserve	2024/06/19 23:52:00	2024/06/20 04:04:00
5	121	Coal constrains	2024/06/20 06:03:00	2024/06/20 16:21:00
5	78	IP front bearing temp high	2024/06/20 16:21:00	2024/06/20 17:05:00
5	177	IP front bearing temp high	2024/06/20 17:05:00	2024/06/21 07:15:00
5	127	IP front bearing temp high	2024/06/21 07:15:00	2024/06/22 16:38:00
5	51	EF: Coal constraints.	2024/06/21 21:11:00	2024/06/22 16:25:00
5	77	IP front bearing temp high	2024/06/22 16:38:00	2024/06/22 17:24:00
5	130	IP turbine front bearing temp high	2024/06/22 17:24:00	2024/06/23 12:25:00
5	47	Spinning Reserve	2024/06/22 19:44:00	2024/06/23 11:23:00
5	97	IP turbine front bearing temp high	2024/06/23 12:25:00	2024/06/23 18:08:00
5	69	IP turbine front bearing temp high	2024/06/23 18:08:00	2024/06/23 19:46:00
5	130	AM: IP turbine front bearing temp high	2024/06/23 19:46:00	2024/06/30 23:59:59
5	49	Spinning Reserve	2024/06/23 22:06:00	2024/06/24 04:18:00
5	45	Spinning Reserve	2024/06/27 02:00:00	2024/06/27 07:55:00
5	45	Spinning Reserve	2024/06/27 23:32:00	2024/06/28 00:10:00
5	48	Spinning Reserve	2024/06/29 01:53:00	2024/06/29 09:16:00
5	48	Spinning Reserve	2024/06/29 10:02:00	2024/06/29 16:11:00
5	50	Spinning Reserve	2024/06/29 20:38:00	2024/06/29 20:39:00
5	47	Spinning Reserve	2024/06/29 20:39:00	2024/06/29 22:28:00
5	49	Spinning Reserve	2024/06/29 23:16:00	2024/06/30 14:14:00
6	593	Outage	2024/06/01 00:00:00	2024/06/30 23:59:59

PM Exceedances		
U1.	Unit 1 tripped due to drum level low, lost EFP B pump	09-Jun
U1.	LHO & RHI poor casing performance	21-Jun
U1.	Manual rapping carried out	25-Jun
U2.	Manual rapping carried out	05-Jun
U2.	SO3 plant challenges Poor casing performance	07-Jun
U2.	Manual rapping carried out	12-Jun
U2.	Manual rapping carried out	14-Jun
U2.	The unit synchronised on 2024/06/15 @ 18:12, therefore the emissions need to be below the limit by 2024/06/18 @ 18:12 and remain below the limit unit 2024/06/19 @ 23:59.	16-Jun
U2.	The unit synchronised on 2024/06/15 @ 18:12, therefore the emissions need to be below the limit by 2024/06/18 @ 18:12 and remain below the limit unit 2024/06/19 @ 23:59.	17-Jun
U2.	The unit synchronised on 2024/06/15 @ 18:12, therefore the emissions need to be below the limit by 2024/06/18 @ 18:12 and remain below the limit unit 2024/06/19 @ 23:59.	18-Jun
U2.	Defective SO3 plant. Manual rapping carried out.	20-Jun
U2.	Poor ESP performance (LHI outage) SO3 plant unavailable	23-Jun
U2.	Poor ESP performance SO3 plant unavailable Manual rapping done	24-Jun
U2.	Poor ESP performance SO3 plant unavailable Manual rapping done	25-Jun
U2.	Poor ESP performance SO3 plant unavailable Manual rapping done	26-Jun
U2.	Poor ESP performance SO3 plant unavailable	27-Jun
U2.	Poor ESP performance SO3 plant unavailable	28-Jun
U2.	Poor ESP performance SO3 plant unavailable	29-Jun
U2.	Poor ESP performance SO3 plant unavailable	30-Jun
U2.	Poor ESP performance SO3 plant unavailable	01-Jul

PM Exceedances		
U3.	RHI casing washing (outage)	02-Jun
U3.	RHI Casing outage	04-Jun
U3.	LHO casing outage	10-Jun
U3.	Poor casing performance High hopper levels	11-Jun
U3.	Manual rapping carried	12-Jun
U3.	LHI casing outage Clean rapping carried out	14-Jun
U3.	Poor casing performance	25-Jun
U3.	High hopper levels Manual rapping done Poor ESP casing performance	26-Jun
U4.	LHO casing outage	02-Jun
U4.	Manual rapping carried out	07-Jun
U4.	Unit off load for minor repairs	09-Jun
U4.	The unit synchronised on 2024/06/09 @ 13:00, therefore the emissions need to be below the limit by 2024/06/12 @ 13:00 and remain below the limit until 2024/06/13 @ 23:59 Manual rapping carried out	11-Jun
U4.	The unit synchronised on 2024/06/09 @ 13:00, therefore the emissions need to be below the limit by 2024/06/12 @ 13:00 and remain below the limit until 2024/06/13 @ 23:59 Manual rapping carried out.	13-Jun
U4.	Unit 4 shut down for Boiler Tube Leak.	15-Jun
U4.	The unit synchronised on 2024/06/19 @ 10:34, therefore the emissions need to be below the limit by 2024/06/22 @ 10:34 and remain below the limit unit 2024/06/23 @ 23:59.	21-Jun
U4.	Poor ESP casing performance (RHI & RHO)	26-Jun
U4.	Poor ESP casing performance High hopper levels	27-Jun
U4.	Manual rapping carried out Poor ESP casing performance	28-Jun
U5.	The unit synchronised on 2024/06/06 @ 05:11, therefore the emissions need to be below the limit by 2024/06/09 @ 05:11 and remain below the limit until 2024/06/10 @ 23:59	08-Jun
U5.	The unit synchronised on 2024/06/10 @ 18:16, therefore the emissions need to be below the limit by 2024/06/13 @ 18:16 and remain below the limit until 2024/06/13 @ 23:59	12-Jun
U5.	The unit synchronised on 2024/06/10 @ 18:16, therefore the emissions need to be below the limit by 2024/06/13 @ 18:16 and remain below the limit until 2024/06/13 @ 23:59 Manual rapping carried out	13-Jun

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