

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

19 June 2025

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LRP01PLA000 _0464/20250609

Dear Mr. Mkhatshwa

LETHABO POWER STATION EMISSION MONTHLY REPORT FOR MAY 2025

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

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

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

Yours sincerely

Kakabo 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

Lethabo Power Station

Report Lethabo Power Station

name: May 2025

Emission Report

Reference number:

LRP01PLA000 _0464/20250609

Document Type: Report

Area of Applicability: **Environment** Report Date: June-2025

Classification: **Controlled Disclosure**

Signatures:

Compiled by:

Verified by :

Reviewed by:

Boiler Engineer

Senior Advisor

N. Mazibuko

BPE Manager

19/06/2025

Date: 2025 06 19

Date: 2025/06/19

Reviewed by:

C Govinden **PE Manager** Reviewed by:

L Nel

C&I Manager

Reviewed by:

L Moreoane

Acting Environmental Manager

Date: 25/06/2025

Date: 2025-06-26

Date:2025-06-26

Approved by:

H Sewsunker

Techincal Manager

Reviewed by:

T. Njapha

Engineering Manager

pp

Date: 2025/06/30

Date: 2025/06/27



LETHABO POWER STATION MONTHLY EMISSIONS REPORT

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



1. RAW MATERIALS AND PRODUCTS

Raw Materials and	Raw Material Type	Units	Maximum Permitted Consumption Rate	Consumption Rate May- 2025
Products	Coal	Tons	2 000 000	1 093 956
	Fuel Oil	Tons	1 700	841.840
	Product / By-Product Name	Units	Maximum Production Capacity Permitted	Indicative Production Rate May-2025
Production Rates	Energy	GWh	2 834.640	1 555.944
	Ash	Tons	770 000	403 013.239

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)	0.720
Ash Content	%	37.37 (Standard)	36.840

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	NOx
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	Efficiency May-2025	Technology Type	SO₃ Utlization May-2025
Unit 1	Electrostatic Precipitator (ESP)	93.94%	SO₃	96.6%
Unit 2	Electrostatic Precipitator (ESP)	Unit Off-line	SO₃	Unit Off-line
Unit 3	Electrostatic Precipitator (ESP)	99.44%	SO ₃	98.1%
Unit 4	Electrostatic Precipitator (ESP)	99.67%	SO₃	99.0%
Unit 5	Electrostatic Precipitator (ESP)	99.74%	SO₃	100.0%
Unit 6	Electrostatic Precipitator (ESP)	99.86%	SO₃	99.0%

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	67.3	97.6	97.6
Unit 2	OFF	OFF	OFF
Unit 3	98.7	98.1	98.1
Unit 4	99.2	97.5	97.5
Unit 5	98.4	97.8	97.8
Unit 6	99.9	98.1	98.1

Note: NOx emissions is measured as NO in PPM. Final NOx value is expressed as total NO $_{\rm 2}$

6. EMISSION PERFORMANCE

Table 6.1: Monthly tonnages for the month of May 2025

Associated Unit/Stack	PM (tons)	SO ₂ (tons)	NO _x (tons)
Unit 1	4 339.8	2 344	1 115
Unit 2	0.0	0	0
Unit 3	470.7	4 106	1 599
Unit 4	258.5	3 779	1 763
Unit 5	159.6	2976	1172
Unit 6	90.5	3 776	1 676
SUM	5 319.2	16 981	7 325

Table 6.2: Operating days in compliance to PM AEL Limit - May 2025

Associated Unit/Stack	Normal	Grace	Section 30	Contraven tion	Total Exceedance	Average PM (mg/Nm³)
Unit 1	3	1	0	18	19	3 285.7
Unit 2	OFF	OFF	OFF	OFF	OFF	OFF
Unit 3	3	6	0	22	28	213.4
Unit 4	21	5	0	0	5	141.0
Unit 5	22	4	0	0	4	334.7
Unit 6	22	8	0	0	8	47.7
SUM	71	24	0	40	64	

Table 6.3: Operating days in compliance to SO₂ AEL Limit - May 2025

Associated Unit/Stack	Normal	Grace	Section 30	Contraven tion	Total Exceedance	Average SO ₂ (mg/Nm³)
Unit 1	23	0	0	0	0	1 730.8
Unit 2	OFF	OFF	OFF	OFF	OFF	OFF
Unit 3	31	0	0	0	0	1 776.4
Unit 4	27	0	0	0	0	1 964.1
Unit 5	27	0	0	0	0	1 728.4
Unit 6	31	0	0	0	0	1 932.9
SUM	139	0	0	0	0	

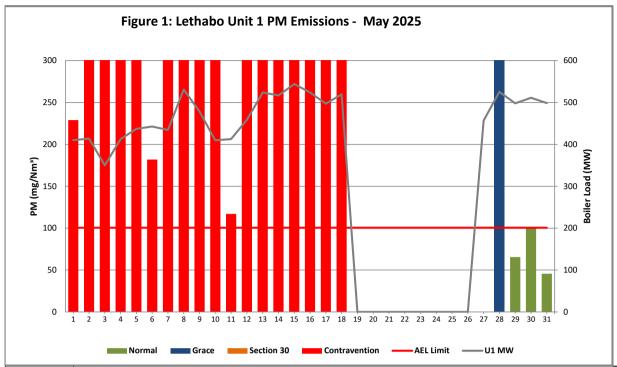
Table 6.4: Operating days in compliance to NOx AEL Limit - May 2025

Associated Unit/Stack	Normal	Grace	Section 30	Contraven tion	Total Exceedance	Average NOx (mg/Nm³)
Unit 1	23	0	0	0	0	812.0
Unit 2	OFF	OFF	OFF	OFF	OFF	OFF
Unit 3	31	0	0	0	0	687.4
Unit 4	27	0	0	0	0	913.5
Unit 5	27	0	0	0	0	680.3
Unit 6	31	0	0	0	0	856.0
SUM	139	0	0	0	0	

Note: NOx emissions is measured as NO in PPM. Final NOx value is expressed as total NO 2

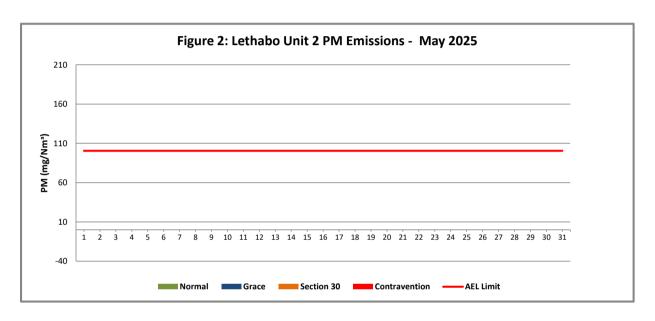
Table 6.5: Legend Description

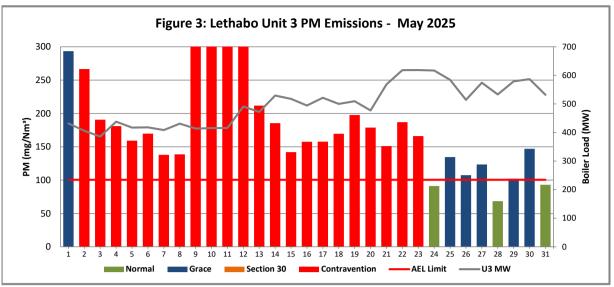
Condition	Colour	Description
Normal	GREEN	Emissions below Emission Limit Value (ELV)
Grace	BLUE	Emissions above the ELV during grace period
Section 30	ORANGE	Emissions above ELV during a NEMA S30 incident
Contravention	RED	Emissions above ELV but outside grace or S30 incident conditions



D	
Reasons: Date	Description
01-May	Poor ESP casing performance. High hopper levels. DHP issues.
02-May	Poor ESP casing performance. High hopper levels. DHP issues.
03-May	Poor ESP casing performance. High hopper levels. DHP issues.
04-May	Poor ESP casing performance. High hopper levels.
05-May	Poor ESP casing performance. High hopper levels. Manual rapping done.
06-May	Poor ESP casing performance. High hopper levels.
07-May	Poor ESP casing performance. High hopper levels.
08-May	Poor ESP casing performance.High hopper levels.LHI ESP casing outage.
09-May	Poor ESP casing performance.
10-May	Poor ESP casing performance. High hopper levels.
11-May	Poor ESP casing performance. High hopper levels.
12-May	Poor ESP casing performance. High hopper levels.

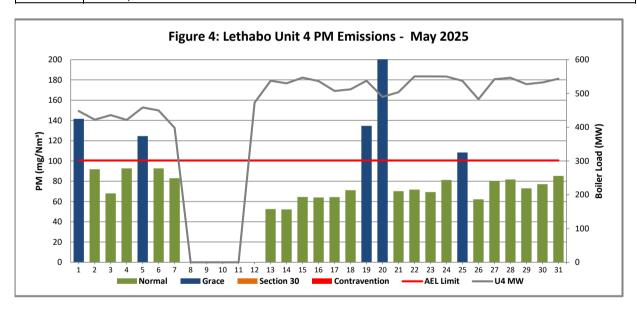
13-May	Poor ESP casing performance. High hopper levels. LHI Precip casing inlet & outlet dampers closed.
14-May	Poor ESP casing performance. High hopper levels.
15-May	Poor ESP casing performance. High hopper levels.
16-May	Poor ESP casing performance. High hopper levels.
17-May	Poor ESP casing performance. High hopper levels. Chain conveyor tripping. Unit 1 shut down.
18-May	Poor ESP casing performance. High hopper levels.
28-May	The unit synchronised on 2025/05/26 @ 06:15, therefore the emissions need to be below the limit 2025/05/29 @ 06:15 and remain below the limit until 2025/05/30.



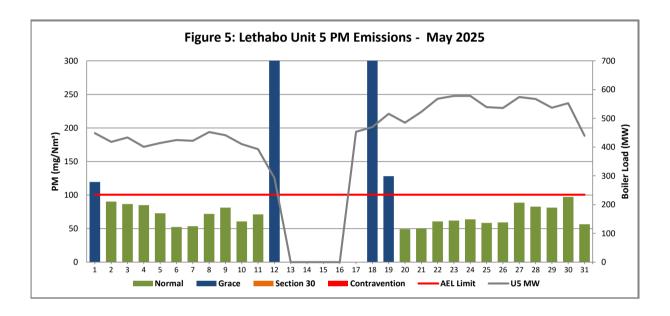


Reasons:	
Date	Description
01-May	Unit synchronized on load on the 29/04/2025 @09:14 and is expected to be below on the 02/05/2025 @09:14 and continue to be below the next day 03/5/2025. Poor ESP casing performance.
02-May	Unit synchronized on load on the 29/04/2025 @09:14 and is expected to be below on the 02/05/2025 @09:14 and continue to be below the next day 03/5/2025. Poor ESP casing performance.
03-May	Poor ESP casing performance.
04-May	Poor ESP casing performance.
05-May	Poor ESP casing performance.
06-May	Poor ESP casing performance.
07-May	Poor ESP casing performance.
08-May	Poor ESP casing performance. RHO ESP isolated for cooling.
09-May	Poor ESP casing performance. RHO ESP isolated for cooling.
10-May	Poor ESP casing performance. RHO ESP isolated for cooling. 15 x high hopper levels.
11-May	Poor ESP casing performance. RHO ESP isolated for cooling. 15 x high hopper levels.
12-May	Poor ESP casing performance. RHO ESP isolated for cooling. 15 x high hopper levels.

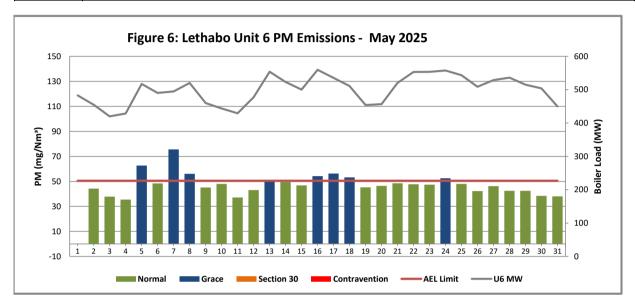
	_							
13-May	Poor ESP casing performance. RHO ESP isolated for cooling.							
14-May	por ESP casing performance.							
15-May	Poor ESP casing performance.							
16-May	Poor ESP casing performance.							
17-May	Poor ESP casing performance.Lost so3 sulphur.							
18-May	Poor ESP casing performance.							
19-May	Poor ESP casing performance.							
20-May	Poor ESP casing performance. High hopper levels.							
21-May	Poor ESP casing performance.1 x high hopper level.							
22-May	Poor ESP casing performance.Clean rapping brought forward.							
23-May	Poor ESP casing performance. Sulphur plant issues. 1 X High hopper level.							
25-May	Poor ESP casings(external issues).							
26-May	Poor ESP casings. No SO3 plant due to low duct pressure.							
27-May	Poor ESP casing performance.							
29-May	Clean rapping brought forward. Poor ESP casings.							
30-May	Poor ESP performance							



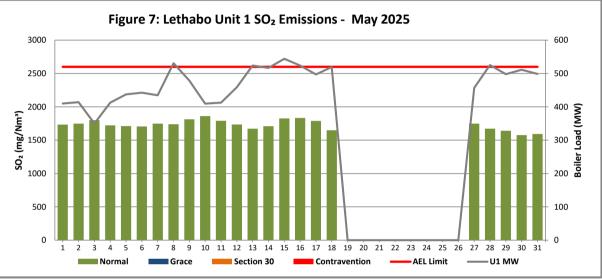
Reasons:	
Date	Description
01-May	Poor ESP casing performance. High hopper levels.
05-May	Poor ESP casing performance. Clean rapping brought forward.
19-May	Correlation test, so3 plant off.
20-May	Correlation test, ESP plant Field 1, 2 3 were switched off.
25-May	Poor ESP casing performance.

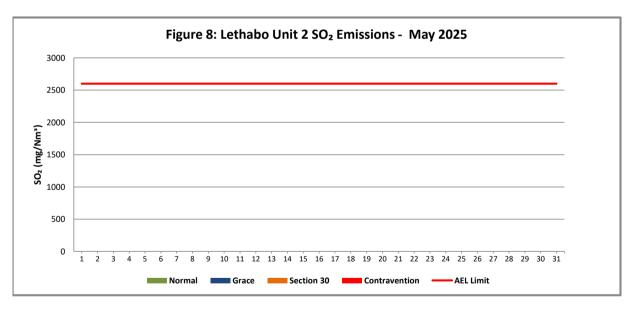


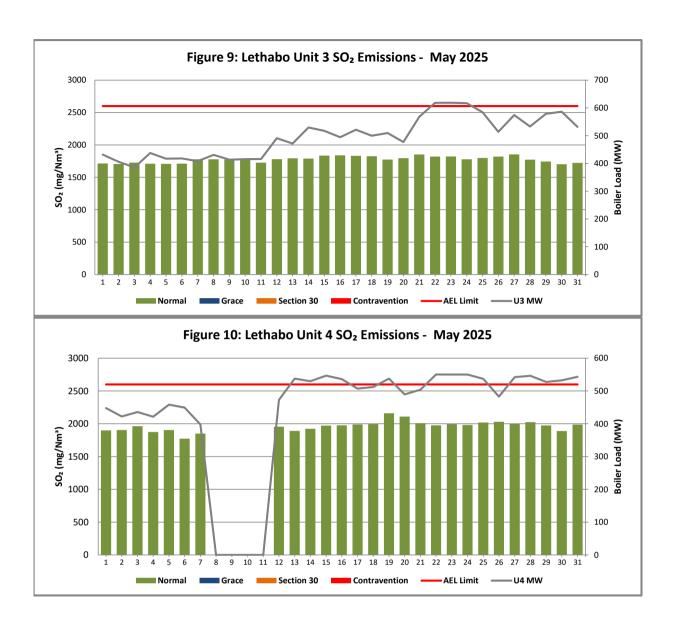
Reasons:	
Date	Description
01-May	Poor ESP casing performance. High hopper lvels.
12-May	Unit 5 shut down.
18-May	The unit synchronised on 2025/05/17 @ 15:55, therefore the emissions need to be below the limit 2025/05/20 @ 15:55 and remain below the limit until 2025/05/21
19-May	The unit synchronised on 2025/05/17 @ 15:55, therefore the emissions need to be below the limit 2025/05/20 @ 15:55 and remain below the limit until 2025/05/21

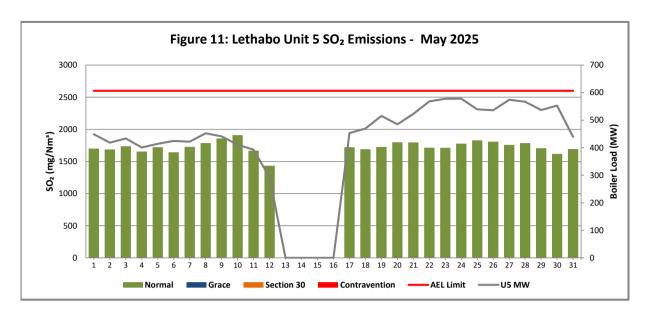


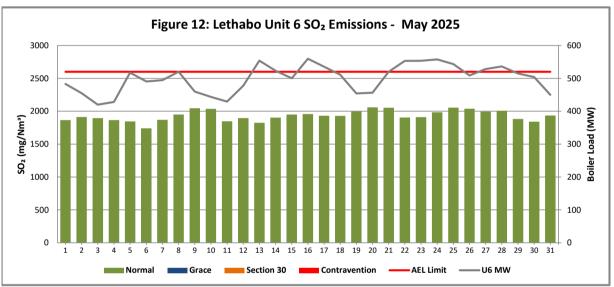
Reasons:	
Date	Description
05-May	
	Correlation Test - High Emissions Test
07-May	Higher hopper levels and repairs of HFT radiators
08-May	Poor Casing performance , number of fields tripping and sparking
13-May	Poor Casing performance , number of fields tripping and sparking
16-May	Poor Casing performance , number of fields tripping and sparking
17-May	Poor Casing performance, number of fields tripping and sparking
18-May	Poor Casing performance due to high hopper levels which occurred
24-May	Poor Casing performance due to high hopper levels which occurred

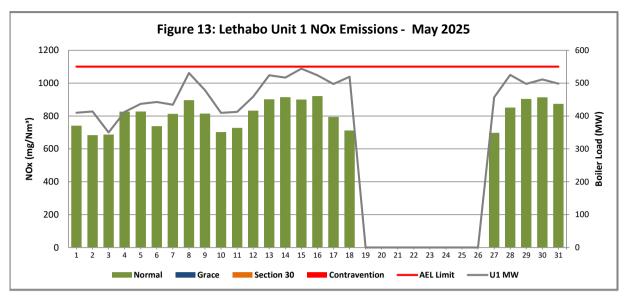


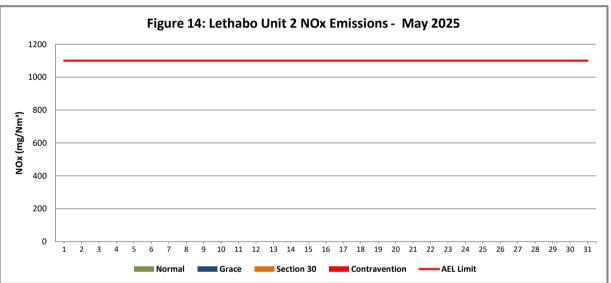


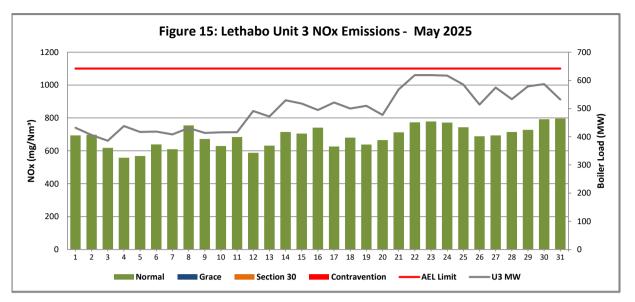


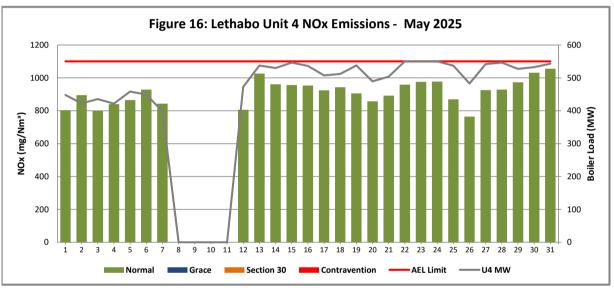


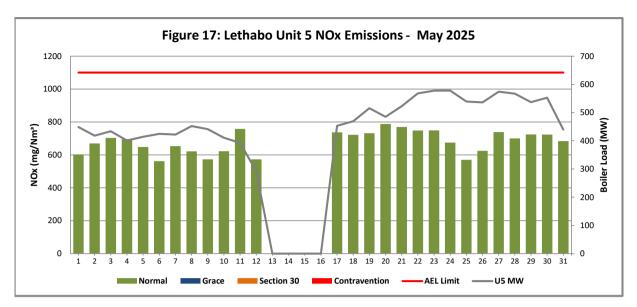


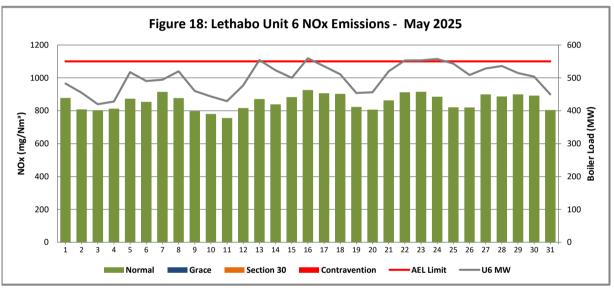












7 SHUT DOWN AND LIGHT UP INFORMATION

Table 7.1: PM Start-up information for the month of May 2025

Table 7.1. FW Start-up III	TOTTI GUILLOTT TO				1
Unit No.1	IN Outage				
Breaker Open (BO)	11:01 pm	2025/05/18			
Draught Group (DG) Shut Down (SD)	12:00 pm	2025/05/19			
BO to DG SD (duration)	00:12:59	DD:HH:MM			
Fires in time	2:00 am	2025/05/26			
Synch. to Grid (or BC)	6:15 am	2025/05/26			
Fires in to BC (duration)	00:04:15	DD:HH:MM			
Emissions below limit from BC (end date)	not > limit	not > limit			
Emissions below limit from BC (duration)	n/a	DD:HH:MM			

Unit No.2	MGO (ESP	& SO3 Plant)						
Breaker Open (BO)	12:01 am	2025/05/01						
Draught Group (DG) Shut Down (SD)	1:00 am	2025/05/01						
BO to DG SD (duration)	00:00:59	DD:HH:MM						
Fires in time								
Synch. to Grid (or BC)								
Fires in to BC (duration)		DD:HH:MM						
Emissions below limit from BC (end date)								
Emissions below limit from BC (duration)		DD:HH:MM						

Unit No.3								
Breaker Open (BO)								
Draught Group (DG) Shut Down (SD)								
BO to DG SD (duration)								
Fires in time								
Synch. to Grid (or BC)								
Fires in to BC (duration)								
Emissions below limit from BC (end date)								
Emissions below limit from BC (duration)								

Unit No.4	BTL Repairs		BTL Repairs					
Breaker Open (BO)	11:35 am	2025/05/07						
Draught Group (DG) Shut Down (SD)	11:00 pm	2025/05/07						
BO to DG SD (duration)	00:11:25	DD:HH:MM						
Fires in time	4:00 pm	2025/05/11						
Synch. to Grid (or BC)	11:57 pm	2025/05/11						
Fires in to BC (duration)	00:07:57	DD:HH:MM						
Emissions below limit from BC (end date)	not > limit	not > limit						
Emissions below limit from BC (duration)	n/a	DD:HH:MM						

Unit No.5	Repair Main Turbine overpeed rings		T8F Coal coveyor Out of Service			
Breaker Open (BO)	2:05 am	2025/05/12	12:58 am	2025/05/31		
Draught Group (DG) Shut Down (SD)	2:05 pm	2025/05/12	1:30 am	2025/05/31		
BO to DG SD (duration)	00:12:00	DD:HH:MM	00:00:32	DD:HH:MM		
Fires in time	3:00 am	2025/05/17	7:00 pm	2025/05/31		
Synch. to Grid (or BC)	3:55 pm	2025/05/17	11:59 pm	2025/05/31		
Fires in to BC (duration)	00:12:55	DD:HH:MM	00:04:59	DD:HH:MM		
Emissions below limit from BC (end date)	not > limit	not > limit	not > limit	not > limit		
Emissions below limit from BC (duration)	n/a	DD:HH:MM	n/a	DD:HH:MM		

Unit No.6	nit No.6 FRF Flexible Replacen		,			
Breaker Open (BO)	12:10 am	2025/05/01	2:27 am	2025/05/31		
Draught Group (DG) Shut Down (SD)	1:00 am	2025/05/01	3:00 am	2025/05/31		
BO to DG SD (duration)	00:00:50	DD:HH:MM	00:00:33	DD:HH:MM		
Fires in time	3:00 am	2025/05/01	2:00 pm	2025/05/31		
Synch. to Grid (or BC)	7:09 am	2025/05/01	11:59 pm	2025/05/31		
Fires in to BC (duration)	00:04:09	DD:HH:MM	00:09:59	DD:HH:MM		
Emissions below limit from BC (end date)	not > limit	not > limit	not > limit	not > limit		
Emissions below limit from BC (duration)	n/a	DD:HH:MM	n/a	DD:HH:MM		

^{7.2:} Point Source emissions released during start-up (fires-in) and Shut-down (SD) for the month of May 2025 in mg/Nm³

8. MAINTENANCE

8. MAIN I ENANCE			
Unit 1			
Beginning of Maintenance	2025/05/10 00:00:00		
Reason for Maintenance	RHO Casing repairs		
End (Time):	2025/05/10 20:05:00		
Duration	20:05:00		
Unit 2			
Beginning of Maintenance			
Reason for Maintenance			
End (Time):			
Duration			
Unit 3			
Beginning of Maintenance	2025/05/09 07:00:00		
Reason for Maintenance	RHO Casing Repairs		
End (Time):	2025/05/12 16:27:00		
Duration	81:27:00		
Unit 4			
Beginning of Maintenance			
Reason for Maintenance			
End (Time):			
Duration			
			 -
Unit 5			
Beginning of Maintenance			
Reason for Maintenance			
End (Time):			
Duration			
Unit 6			
Beginning of Maintenance			
Reason for Maintenance			
End (Time):			
Duration			
		•	

9. GENERAL

CO2 and Velocity Monitors Low Reliability Units 1-6:

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

Unit 1 Monitor Reliability

01/05/2025 -03/05/2025: PM monitor Reliability low due to monitor max out.

Unit 1 Monitor Reliability

07/05/2025 - 08/05/2025: PM monitor Reliability low due to monitor max out.

Unit 1 Monitor Reliability

10/05/2025: PM monitor Reliability low due to monitor max out.

Unit 1 Monitor Reliability

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

Unit 1 Monitor Reliability

12/05/2025 - 17/05/2025: PM monitor Reliabilty low due to monitor max out.

Unit 5 Monitor Reliability

18/05/2025: PM monitor REliability low due to mnitor max out.

Unit 1, 3,4, 5 & 6 Gaseous Monitor Reliability

29/05/2025: Gas Monitor Reliability low (CIE outside plant was busy with foxboro server replacement, our CEMS data is linked there, hence the monitor unreliability)

Unit 1

On the 24/04/2025 to 18/05/2025, 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 23/05/2025, 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.

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 Acknowledg- ment	Date DEA Acceptable	Comments / Reference No.
3	02-May-25	23-May-25	HFT faults	HFT Repairs	06-May-25				Investigation in progress

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
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
Jul-24	0.43	2.04	0.55	0.75	0.68	1.28	0.87
Aug-24	0.48	0.91	0.69	0.47	0.53	0.18	0.54
Sep-24	0.61	0.70	0.69	0.67	0.76	0.24	0.60
Oct-24	0.34	0.62	OFF	0.61	0.78	0.33	0.57
Nov-24	0.42	0.50	OFF	0.90	0.75	0.26	0.56
Dec-24	0.56	0.57	OFF	0.88	0.63	0.24	0.54
Jan-25	1.08	0.51	OFF	0.82	1.47	0.71	0.90
Feb-25	1.50	0.56	7.43	0.49	1.94	0.50	1.47
Mar-25	1.38	0.67	1.83	0.58	2.33	0.46	1.25
Apr-25	16.13	OFF	1.50	6.27	2.31	0.40	5.12
May-25	16.16	OFF	1.28	0.81	0.57	0.25	3.33

12. DAILY EMISSIONS FIGURES

Final Dust Concentration (mg/Nm³)

	Final Dust Concentration (mg/Nm³)										
Date	U1	U2	U3	U4	U5	U6	Limit (U1-5)	Limit (U6)			
01-May	11941	OFF	293	142	120	OFF	100	50			
02-May	5404	OFF	267	92	90	44	100	50			
03-May	8638	OFF	191	68	87	38	100	50			
04-May	1129	OFF	181	93	85	36	100	50			
05-May	890	OFF	159	125	73	63	100	50			
06-May	182	OFF	170	93	52	48	100	50			
07-May	3243	OFF	138	83	53	76	100	50			
08-May	3139	OFF	139	OFF	72	56	100	50			
09-May	1319	OFF	577	OFF	81	45	100	50			
10-May	8316	OFF	658	OFF	61	48	100	50			
11-May	117	OFF	520	OFF	71	37	100	50			
12-May	2280	OFF	550	OFF	6244	43	100	50			
13-May	4676	OFF	212	53	OFF	51	100	50			
14-May	2729	OFF	185	52	OFF	49	100	50			
15-May	2150	OFF	142	65	OFF	47	100	50			
16-May	4162	OFF	158	64	OFF	54	100	50			
17-May	3554	OFF	158	64	OFF	56	100	50			
18-May	7889	OFF	170	71	676	53	100	50			
19-May	OFF	OFF	198	135	128	45	100	50			
20-May	OFF	OFF	179	1608	49	46	100	50			
21-May	OFF	OFF	151	70	50	49	100	50			
22-May	OFF	OFF	187	72	61	48	100	50			
23-May	OFF	OFF	166	69	62	47	100	50			
24-May	OFF	OFF	91	81	64	52	100	50			
25-May	OFF	OFF	135	108	59	48	100	50			
26-May	OFF	OFF	107	62	59	42	100	50			
27-May	OFF	OFF	124	80	89	46	100	50			
28-May	318	OFF	68	82	83	43	100	50			
29-May	65	OFF	102	73	81	42	100	50			
30-May	99	OFF	147	77	97	38	100	50			
31-May	46	OFF	93	85	56	38	100	50			

Final SOx Concentration (mg/Nm³)

Date	U1	U2	U3	U4	U5	U6	Limit
01-May	1733	OFF	1713	1899	1700	1866	2600
02-May	1747	OFF	1706	1905	1687	1912	2600
03-May	1800	OFF	1727	1963	1738	1896	2600
04-May	1721	OFF	1710	1874	1655	1866	2600
05-May	1711	OFF	1708	1904	1722	1844	2600
06-May	1705	OFF	1712	1773	1644	1739	2600
07-May	1747	OFF	1779	1850	1727	1869	2600
08-May	1738	OFF	1778	OFF	1787	1949	2600
09-May	1813	OFF	1774	OFF	1857	2045	2600
10-May	1860	OFF	1775	OFF	1911	2036	2600
11-May	1791	OFF	1727	OFF	1667	1846	2600
12-May	1734	OFF	1780	1956	1434	1896	2600
13-May	1672	OFF	1794	1891	OFF	1823	2600
14-May	1709	OFF	1791	1923	OFF	1903	2600
15-May	1826	OFF	1835	1972	OFF	1949	2600
16-May	1832	OFF	1839	1977	OFF	1957	2600
17-May	1789	OFF	1832	1990	1722	1931	2600
18-May	1649	OFF	1826	1992	1691	1929	2600
19-May	OFF	OFF	1775	2161	1726	1996	2600
20-May	OFF	OFF	1795	2109	1798	2058	2600
21-May	OFF	OFF	1853	2009	1797	2054	2600
22-May	OFF	OFF	1821	1977	1714	1904	2600
23-May	OFF	OFF	1822	1993	1712	1910	2600
24-May	OFF	OFF	1779	1981	1778	1984	2600
25-May	OFF	OFF	1799	2020	1830	2055	2600
26-May	OFF	OFF	1821	2031	1809	2038	2600
27-May	1748	OFF	1854	2001	1758	1994	2600
28-May	1673	OFF	1773	2025	1787	2008	2600
29-May	1642	OFF	1745	1975	1706	1882	2600
30-May	1577	OFF	1702	1890	1618	1841	2600
31-May	1592	OFF	1723	1988	1694	1935	2600

Final NOx Concentration (mg/Nm³)

Data	Date U1 U2 U3 U4 U5 U6 Limit											
		U2		_	U5							
01-May	741	OFF	694	804	603	878	1100					
02-May	684	OFF	697	895	670	808	1100					
03-May	687	OFF	618	800	703	803	1100					
04-May	827	OFF	558	841	696	813	1100					
05-May	828	OFF	569	865	648	874	1100					
06-May	738	OFF	639	929	562	854	1100					
07-May	813	OFF	610	844	653	915	1100					
08-May	896	OFF	755	OFF	622	877	1100					
09-May	815	OFF	672	OFF	573	797	1100					
10-May	702	OFF	629	OFF	622	781	1100					
11-May	728	OFF	684	OFF	758	756	1100					
12-May	833	OFF	588	806	573	817	1100					
13-May	902	OFF	632	1026	OFF	872	1100					
14-May	914	OFF	714	961	OFF	839	1100					
15-May	900	OFF	705	957	OFF	883	1100					
16-May	922	OFF	741	953	OFF	926	1100					
17-May	795	OFF	626	924	737	907	1100					
18-May	712	OFF	680	943	722	903	1100					
19-May	OFF	OFF	638	905	732	824	1100					
20-May	OFF	OFF	666	858	788	807	1100					
21-May	OFF	OFF	712	892	770	863	1100					
22-May	OFF	OFF	773	959	748	913	1100					
23-May	OFF	OFF	778	976	749	916	1100					
24-May	OFF	OFF	772	977	675	886	1100					
25-May	OFF	OFF	743	870	570	821	1100					
26-May	OFF	OFF	689	765	624	820	1100					
27-May	697	OFF	694	926	738	900	1100					
28-May	851	OFF	715	929	700	887	1100					
29-May	904	OFF	728	973	724	900	1100					
30-May	914	OFF	792	1032	724	893	1100					
31-May	874	OFF	797	1055	684	804	1100					

13. AVAILABILITY

ESP utilisation

						Avai	lability					
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
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
Jul-24	100.00%	0.0	100.00%	0.0	100.00%	0.0	100.00%	0.0	100.00%	0.0	100.00%	0.00%
Aug-24	98.59%	1.8	100.00%	0.0	99.21%	1.0	100.00%	0.0	99.84%	0.2	100.00%	0.00%
Sep-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	100.00%	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%	2.15	100.00%	0.00	100.00%	0.00	100.00%	0.00	97.50%	3.00	98.48%	1.82
May-25	99.33%	0.84	100.00%	0.00	97.26%	3.39	100.00%	0.00	100.00%	0.00	100.00%	0.00

SO₃ plant utilisation

						Avai	lability					
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
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
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
Sep-24	100.00%	0.0	89.45%	3.2	99.33%	0.2	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%	913.89%	95.45%	1.3	91.35%	2.4	97.77%	0.6
Mar-25	98.52%	0.5	96.36%	1.1	85.05%	463.48%	98.61%	0.4	99.91%	0.0	88.42%	3.6
Apr-25	95.63%	1.3	Off-line	Offline	91.27%	261.90%	85.62%	4.3	88.61%	3.4	99.78%	0.1
May-25	96.57%	1.1	0.00%	31.0	98.12%	58.33%	99.01%	0.3	100.00%	0.0	99.03%	0.3

ADDENDUM TO MONTHLY EMISSIONS REPORT

Particulate Emission Monitors

Availability						
	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
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%
Sep-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	71.99%	OFF	99.17%	87.49%	94.03%	99.11%
May-25	67.27%	OFF	98.66%	99.17%	98.40%	99.86%

Gaseous Emission Monitors

						Avail	ability					
	Un	it 1	Uni	it 2	Unit 3		Uı	nit 4	Unit 5		Unit 6	
Month	SO _x	NO _x										
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
Jul-24	99.75%	99.89%	100.00%	100.00%	100.00%	100.00%	99.46%	99.73%	100.00%	100.00%	73.40%	70.78%
Aug-24	99.87%	100.00%	99.80%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Sep-24	100.00%	100.00%	100.00%	99.68%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Oct-24	99.85%	100.00%	99.58%	99.72%	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	99.65%	99.65%
Nov-24	100.00%	100.00%	100.00%	100.00%	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	99.86%	100.00%
Dec-24	57.50%	57.50%	37.50%	37.50%	0.00%	0.00%	79.71%	79.71%	66.67%	66.67%	65.65%	65.73%
Jan-25	99.26%	99.09%	99.33%	99.33%	0.00%	0.00%	100.00%	96.43%	100.00%	100.00%	100.00%	100.00%
Feb-25	98.21%	100.00%	100.00%	99.60%	86.08%	85.19%	96.01%	96.01%	94.55%	94.55%	96.18%	96.18%
Mar-25	93.82%	99.87%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Apr-25	98.61%	98.61%	OFF	OFF	98.61%	98.61%	92.56%	91.94%	99.17%	99.17%	99.17%	99.17%
May-25	97.64%	97.64%	OFF	OFF	98.12%	98.12%	97.53%	97.53%	97.82%	97.82%	98.12%	98.12%

Oxygen Mo	nitor Avail	ability				
	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%
Sep-24	100.00%	99.90%	100.00%	99.86%	99.72%	99.70%
Oct-24	99.23%	99.55%	0.00%	99.87%	94.89%	99.28%
Nov-24	100.00%	100.00%	0.00%	99.86%	84.89%	99.15%
Dec-24	57.50%	37.50%	0.00%	79.71%	66.67%	65.73%
Jan-25	99.55%	99.50%	0.00%	98.40%	99.43%	82.47%
Feb-25	99.70%	99.24%	85.19%	95.83%	94.39%	60.94%
Mar-25	100.00%	100.00%	100.00%	100.00%	99.81%	99.87%
Apr-25	98.74%	OFF	98.44%	92.56%	99.03%	99.00%
May-25	97.27%	OFF	97.98%	97.53%	97.52%	97.98%

ADDENDUM TO MONTHLY EMISSIONS REPORT

14. EFFICIENCY

		ESP E	fficiency (%)		
	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Apr-24	99.901%	99.698%	99.774%	99.704%	99.714%	Unit Off
May-24	99.906%	99.582%	99.771%	99.525%	99.654%	Unit Off
Jun-24	99.89%	99.55%	99.82%	99.62%	99.75%	Unit Off
Jul-24	99.848%	99.125%	99.796%	99.588%	99.735%	99.450%
Aug-24	99.845%	99.625%	99.749%	99.755%	99.769%	99.907%
Sep-24	99.789%	99.660%	99.775%	99.644%	99.675%	99.896%
Oct-24	99.866%	99.716%	Unit Off	99.669%	99.637%	99.856%
Nov-24	99.838%	99.782%	Unit Off	99.515%	99.662%	99.888%
Dec-24	99.773%	99.722%	Unit Off	99.513%	99.695%	99.891%
Jan-25	99.573%	99.764%	Unit Off	99.650%	99.408%	99.613%
Feb-25	99.455%	99.758%	97.777%	99.804%	99.266%	99.787%
Mar-25	99.510%	99.690%	97.280%	99.770%	99.010%	99.780%
Apr-25	94.94%	Unit Off-line	99.46%	97.85%	99.12%	99.83%
May-25	93.94%	Unit Off-line	99.44%	99.67%	99.74%	99.86%

15. REMARKS

UNIT	MWLOSS	REASON	ACTUALSTARTDATE	ACTUALENDDATE
1	130	High dust hopper levels	2025/05/01 00:00:00	2025/05/05 07:28:00
1		RHO casing repairs	2025/05/10 00:00:00	2025/05/10 20:05:00
1	178	High stack emissions.	2025/05/11 18:19:00	2025/05/12 14:35:00
1	81	High stack emissions.	2025/05/12 14:36:00	2025/05/12 17:02:00
1	80	High dust hopper levels	2025/05/13 00:04:00	2025/05/13 04:36:00
1	169	High stack emissions.	2025/05/13 10:23:00	2025/05/13 14:49:00
1	70	High dust hopper levels	2025/05/13 23:59:00	2025/05/14 05:17:00
1	593	AM: IN	2025/05/18 23:01:00	2025/05/26 06:15:00
1	80	Clean rapping.	2025/05/27 19:59:00	2025/05/27 22:30:00
1	80	High stack emissions.	2025/05/27 22:30:00	2025/05/28 17:04:00
1	28	High stack emissions	2025/05/28 17:04:00	2025/05/29 04:03:00
1	180	High stack emissions	2025/05/29 20:04:00	2025/05/29 22:07:00
1	200	High stack emissions	2025/05/29 22:07:00	2025/05/30 02:35:00
2	593	MGO ESP & SO3	2025/05/01 00:00:00	2025/05/31 23:59:59
3	94	High dust hopper levels.	2025/05/01 00:00:00	2025/05/01 04:19:00
3	194	High dust hopper levels.	2025/05/01 04:19:00	2025/05/01 17:28:00
3	100	High hopper levels	2025/05/01 17:28:00	2025/05/02 19:32:00
3	49	EF:High stack emissions	2025/05/05 16:48:00	2025/05/06 10:57:00
3	118	RH Outer precip casing repairs	2025/05/09 07:00:00	2025/05/12 16:27:00
3	200	Emissions test.	2025/05/27 00:15:00	2025/05/27 01:16:00
3	186	Emission test	2025/05/27 01:16:00	2025/05/27 04:58:00
3	187	emissions test.	2025/05/28 00:02:00	2025/05/28 05:00:00
4		High dust hopper levels.	2025/05/01 00:00:00	2025/05/01 05:41:00
4	140	EF:High stack emissions	2025/05/02 15:22:00	2025/05/03 03:29:00
4	107	EF:High stack emissions	2025/05/03 03:29:00	2025/05/03 03:48:00
4	56	EF:High stack emissions	2025/05/03 03:48:00	2025/05/03 04:07:00
4	128	EF:High stack emissions	2025/05/03 04:07:00	2025/05/03 04:29:00
4	119	EF:High stack emissions	2025/05/03 04:29:00	2025/05/03 04:55:00
4	593	Boiler tube leak.	2025/05/07 11:35:00	2025/05/11 23:57:00
5		Repair Main Turbine overspeed rings	2025/05/12 02:05:00	2025/05/17 15:55:00
5	593	T8F coal conveyor O/C	2025/05/31 00:58:00	2025/05/31 23:59:59
6	593	FRF flexible pipe replacement.	2025/05/01 00:00:00	2025/05/01 07:09:00
6		High stack emissions	2025/05/18 13:36:00	2025/05/20 05:26:00
6	67	EF:High stack emissions	2025/05/23 22:55:00	2025/05/24 00:33:00

	PM Exceedances	
	Poor ESP casing performance.	
	High hopper levels.	01-May
U1.	DHP issues.	
01.		
	Poor ESP casing performance.	
	High hopper levels.	02-May
	DHP issues.	
U1.	LHI Casing isolated.	
	Poor ESP casing performance.	
	High hopper levels.	
	DHP issues.	03-May
	Boiler load 280MW for LH Draught group.	
U1.	SO3 plant off due to low load.	
	Dear FCD coping norformance	
	Poor ESP casing performance.	04-May
U1.	High hopper levels.	
	Poor ESP casing performance.	05-May
	High hopper levels.	OSTIA
U1.	Manual rapping done.	
	Poor ESP casing performance.	
	High hopper levels.	06-May
U1.		
	Poor ESP casing performance.	
	High hopper levels.	07-May
	LHI ESP casing outage.	
U1.	Manual rapping done on LHI casing.	
	Poor ESP casing performance.	
	High hopper levels.	08-May
	LHI ESP casing outage.	
U1.		
U1.	Poor ESP casing performance.	09-May
02.		
	Poor ESP casing performance.	
	High hopper levels.	10-May
	RHO ESP casing outage.	Torray
	Manual rapping done for 40 minutes on RHO casing.	
U1.		
	Poor ESP casing performance.	11-May
U1.	High hopper levels.	
	Dear FCD cosing norformance	
	Poor ESP casing performance.	12-May
1.14	High hopper levels.	
U1.	LHI Precip casing inlet & outlet dampers closed.	

	PM Exceedances	
U1.	Poor ESP casing performance. High hopper levels. LHI Precip casing inlet & outlet dampers closed.	13-May
01.	Poor ESP casing performance.	1.4 May
U1.	High hopper levels.	14-May
U1.	Poor ESP casing performance. High hopper levels. LHI Precip casing inlet & outlet dampers closed.	15-May
U1.	Poor ESP casing performance. High hopper levels.	16-May
U1.	Poor ESP casing performance. High hopper levels. Chain conveyor tripping. Unit 1 shut down.	17-May
U1.	Poor ESP casing performance. High hopper levels.	18-May
U1.	The unit synchronised on 2025/05/26 @ 06:15, therefore the emissions need to be below the limit 2025/05/29 @ 06:15 and remain below the limit until 2025/05/30.	28-May
U3.	Unit synchronized on load on the 29/04/2025 @09:14 and is expected to be below on the 02/05/2025 @09:14 and continue to be below the next day 03/5/2025. Poor ESP casing performance. High hopper levels.	01-May
U3.	Unit synchronized on load on the 29/04/2025 @09:14 and is expected to be below on the 02/05/2025 @09:14 and continue to be below the next day 03/5/2025. Poor ESP casing performance. High hopper levels. RHO ESP casing isolated.	02-May
U3.	Poor ESP casing performance.	03-May
U3.	Poor ESP casing performance.	04-May
U3.	Poor ESP casing performance.	05-May
U3.	Poor ESP casing performance.	06-May
U3.	Poor ESP casing performance.	07-May
U3.	Poor ESP casing performance. RHO ESP isolated for cooling.	08-May

		T
	D 500 :	
	Poor ESP casing performance.	00.14
	RHO ESP isolated for cooling.	09-May
U3.	15 x high hopper levels. Dust plant conveyor belts standing.	
03.	Dust plant conveyor beits standing.	
	Poor ESP casing performance.	
	RHO ESP isolated for cooling.	10-May
	15 x high hopper levels.	
U3.	Dust plant conveyor belts standing.	
	Poor ESP casing performance.	
	RHO ESP isolated for cooling.	11-May
	15 x high hopper levels.	12,
U3.	Dust plant conveyor belts standing.	
	Poor ESP casing performance.	
	RHO ESP isolated for cooling.	12-May
	15 x high hopper levels.	
U3.	Dust plant conveyor belts standing.	
	Description of the second seco	
	Poor ESP casing performance.	
	RHO ESP isolated for cooling.	40 M
	2 x high hopper levels.	13-May
	SO3 Plant off due to 2nd air heater gas temps low.	
U3.	Clean rapping brought forward.	
03.		
	Poor ESP casing performance.	
		14-May
U3.		
	Poor ESP casing performance.	15-May
U3.		
U3.	Poor ESP casing performance.	16-May
	Poor ESP casing performance.	
	Lost so3 sulphur.	17-May
U3.		
	D 500 :	18-May
U3.	Poor ESP casing performance.	
U3.	Poor ESP casing performance.	19-May
	Poor ESP casing performance.	20-May
U3.	High hopper levels.	
	Description of the second of t	0
	Poor ESP casing performance.	21-May
U3.	1 x high hopper level.	İ

	PM Exceedances	
	Poor ESP casing performance.	22-May
U3.	Clean rapping brought forward.	
	Poor ESP casing performance.	
	Sulphur plant issues.	23-May
	1 X High hopper level.	
U3.	Proces parameters not balanced.	
U3.	Poor ESP casings(external issues).	25-May
	Poor ESP casings.	26-May
U3.	No SO3 plant due to low duct pressure.	20-May
00.	110 000 paint due to tow dust pressure.	
	Poor ESP casing performance.	27-May
U3.		
	Clean rapping brought forward.	29-May
U3.	Poor ESP casings.	
U3.	Poor ESP performance	30-May
00.	1 our Eur performance	
	Poor ESP casing performance.	
	High hopper levels.	01-May
U4.	DHP issues.	
	Description of the second seco	0=14
114	Poor ESP casing performance. Clean rapping brought forward.	05-May
U4.	Ctean rapping brought forward.	
U4.	Correlation test, so3 plant off.	19-May
		00 Maria
U4.	Correlation test, ESP plant Field 1, 2 3 were switched off.	20-May
U4.	Poor ESP casing performance.	25-May
	Poor ESP casing performance.	
	High hopper lvels.	01-May
	LHI ESP casing put on test rapping.	
U5.	Clean rapping brought forward.	
	Unit 5 shut down.	12-May
U5.	onico succuowii.	12-i*iay
	The unit synchronised on 2025/05/17 @ 15:55, therefore the emissions need to be below the limit 2025/05/20 @	18-May
U5.	15:55 and remain below the limit until 2025/05/21	
		
l	The unit synchronised on 2025/05/17 @ 15:55, therefore the emissions need to be below the limit 2025/05/20 @	19-May
U5.	15:55 and remain below the limit until 2025/05/21	

PM Exceedances			
U6	Correlation Test - High Emissions Test	05-May	
U6	Higher hopper levels and repairs of HFT radiators	07-May	
U6	Poor Casing performance, number of fields tripping and sparking	08-May	
U6	Poor Casing performance, number of fields tripping and sparking	13-May	
U6	Poor Casing performance, number of fields tripping and sparking	16-May	
U6	Poor Casing performance, number of fields tripping and sparking	17-May	
U6	Poor Casing performance due to high hopper levels which occurred	18-May	
U6	Poor Casing performance due to high hopper levels which occurred	24-May	