Eskom	Technical and Generic Report	Matimba Power Station

Title: **Matimba Power Station January 2024 emissions report**

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1. Report Summary

Matimba Power Station was issued with an Atmospheric Emission License (H16/1/13-WDM05) in September 2022. The License requires the license holder to submit monthly reports to the Department. This report contains the required information as specified in the license for January 2024.The information recorded in the report is obtained from Matimba Emission Reporting tool V02.2024VF.

During the period under review, Matimba experienced eighty-five (85) exceedances of the daily particulate matter emission limit (50mg/Nm3), seventy-four (74) of these exceedances occurred outside of the 48-hour grace period and were recorded on the Eskom incident management process as non-compliance to the Atmospheric Emissions Licence and eleven (11) exceedances occurred within the 48-hour grace period.

There were no exceedances of the monthly SOx limit (3500mg/Nm3) and the daily NOx emission limit (750mg/Nm3) occurred.

Flue gas conditioning plant availability was below the required 100% for Unit 1,3,5 and 6 due to unplanned breakdowns and defects. Defects were addressed and plants returned to service. Unit 2 and 4 were on outage during the month of January 2024.

More information regarding above mentioned issues is provided in the relevant sections within the report.

2. Emission information

2.1 Raw materials and products

Table 1: Quantity of Raw Materials and Products used/produced for the month.

Raw Materials and Products used	Raw Material Type	Unit	Maximum Permitted Consumption Rate (Quantity)	Consumption Rate
	Coal	Tons/month	1 500 000	625 092
	Fuel Oil	Tons/month	1 200	1817.724
Production Rates	**Product/ By-Product Name**	**Unit**	**Maximum Production Capacity Permitted (Quantity)**	**Production Rate**
	Energy	MW	4000	1495.908

The consumption rates for fuel oil for the month of January 2024 exceeded the permitted maximum limits due to unit 1, 3 and 6 combustions requiring oil support due to mills issues and also due to multiple units start-ups.

2.2 Abatement technology

Table 2: Abatement Equipment Control Technology Utilised

Associated Unit	Technology Type	Minimum utilisation (%)	Efficiency (%)
Unit 1	Electrostatic Precipitator	100%	99.998%
Unit 2	Electrostatic Precipitator	100%	Off
Unit 3	Electrostatic Precipitator	100%	99.997%
Unit 4	Electrostatic Precipitator	100%	99.963%
Unit 5	Electrostatic Precipitator	100%	99.998%
Unit 6	Electrostatic Precipitator	100%	99.998%
Associated Unit	**Technology Type**	**Minimum utilisation (%)**	**Actual Utilisation (%)**
Unit 1	SO_3 Plant	100%	82%
Unit 2	SO_3 Plant	100%	Off
Unit 3	SO_3 Plant	100%	92%
Unit 4	SO_3 Plant	100%	Off
Unit 5	SO_3 Plant	100%	96%
Unit 6	SO_3 Plant	100%	89%

Flue gas conditioning plant availability was below the required 100% for Unit 1,3,5 and 6 due to unplanned breakdowns and defects. Defects were addressed and plants returned to service. Unit 2 and 4 were on outage during the month of January 2024.

Table 3: Energy Source Material Characteristics.

	Characteristic	Stipulated Range (Unit)	Monthly Average Content
Coal burned	**Sulphur Content**	1.6%	1.42%
	Ash Content	40%	34.39%

Energy source characteristics remained within the ranges stipulated in the license.

2.3 Emissions reporting

2.3.1 Particulate Matter Emissions

Parallel spot tests results were applied for all the units. Correlation spot tests curves were applied for calculations on unit 1,2,3 and 5. The spot test correlation for PM emissions on Unit 4 and 6 have failed the minimum requirements outlined in the Eskom emission calculation Methodology and were not applied.

Unit 1 Particulate Emissions

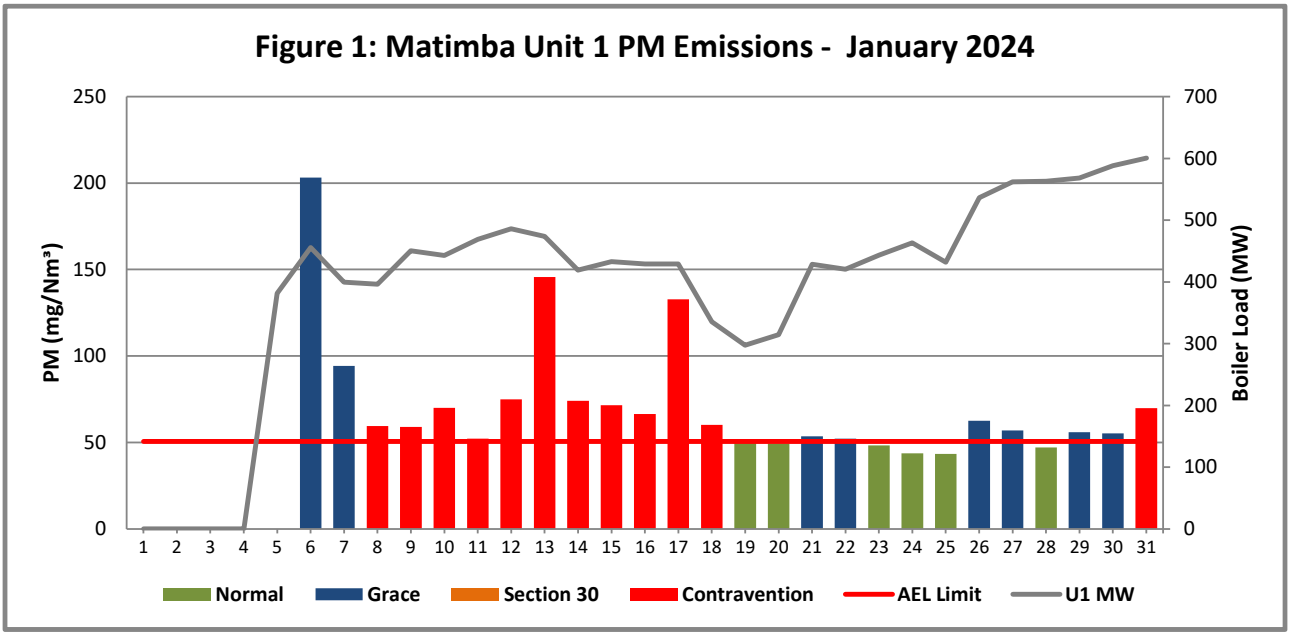

Figure 1: Particulate matter daily average emissions against emission limit for unit 1 for the month of January 2024

Interpretation:

Unit 1 exceeded the daily particulate emission limit of 50mg/Nm3 on 6 to 18,21,22,26,27 and 29 to 31 January 2024. The exceedances from 8 to 18 and 31 January 2024 occurred outside of the 48-hour grace period and were recorded on the Eskom incident management process as non-compliance to the Atmospheric Emissions Licence. The exceedances were due to unavailability of the ash conveyance system that led to ash accumulation on the dust handling plants leading to high hopper levels within the flue gas cleaning system and reducing the efficiency of the abatement technology (electrostatic precipitator fields).

Unit 2 Particulate Emissions

Unit 2 Particulate Matter

Matimba unit 2 was off for general overall during the reporting period.

Unit 3 Particulate Emissions

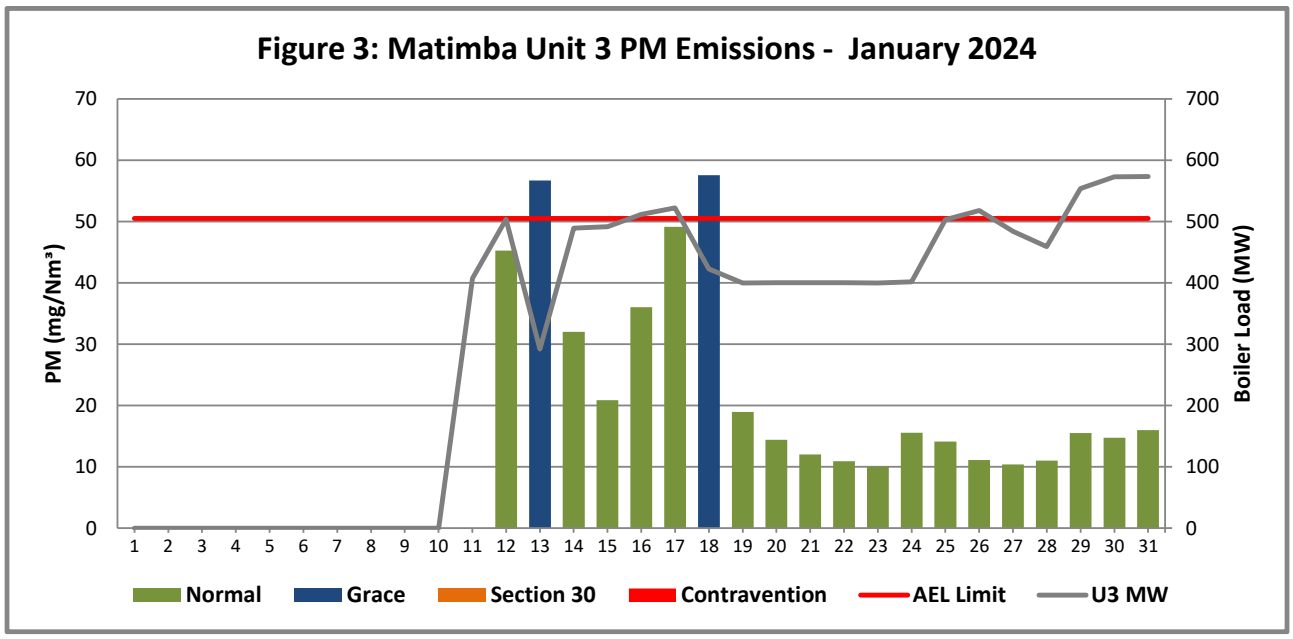

Figure 2: Particulate matter daily average emissions against emission limit for unit 3 for the month of January 2024

Interpretation:

Unit 3 exceeded the daily particulate emission limit of 50mg/Nm3 on 13 and 18 January 2024. All exceedances remained within the 48-hour grace period. The exceedances were due to unavailability of the ash conveyance system that led to ash accumulation on the dust handling plants leading to high hopper levels within the flue gas cleaning system and reducing the efficiency of the abatement technology (electrostatic precipitator fields).

Unit 4 Particulate Emissions

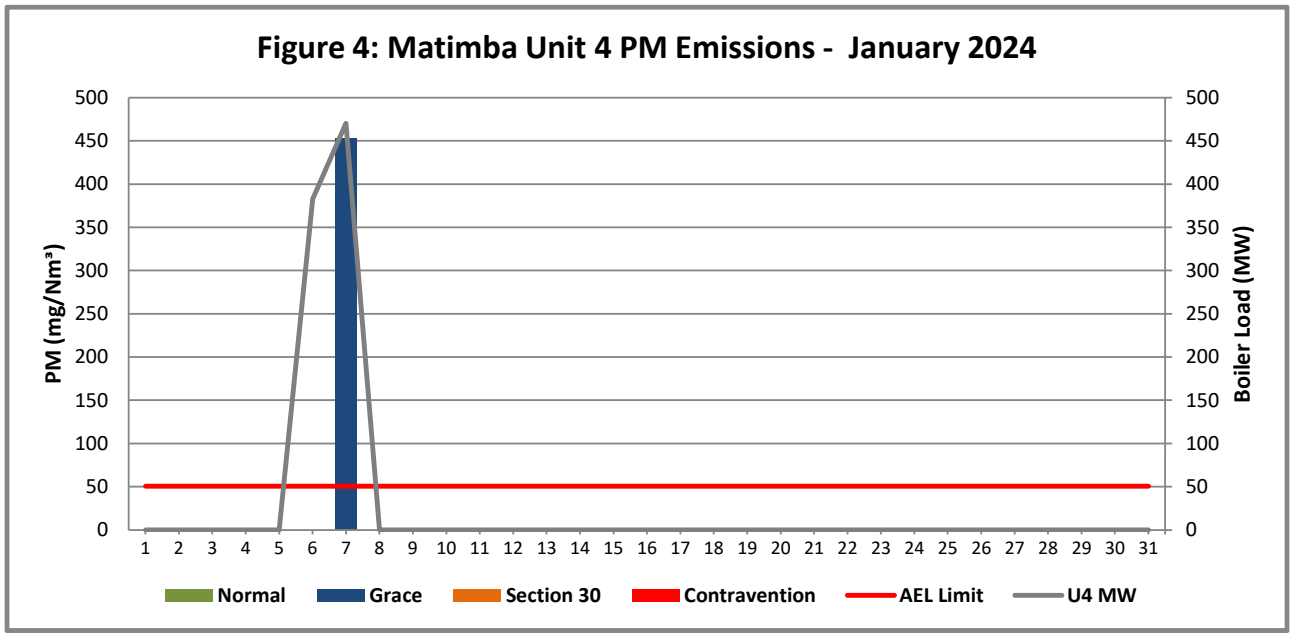

Figure 3: Particulate matter daily average emissions against emission limit for unit 4 for the month of January 2024

Interpretation:

Unit 4 Particulate matter exceeded the daily limit of 50 mg/Nm^3 on 7 January 2024. Exceedances remained within the 48-hour grace period. The unit was started on the 5th January 2024, run up until the 8 January 2024 and tripped .

Unit 5 Particulate Emissions

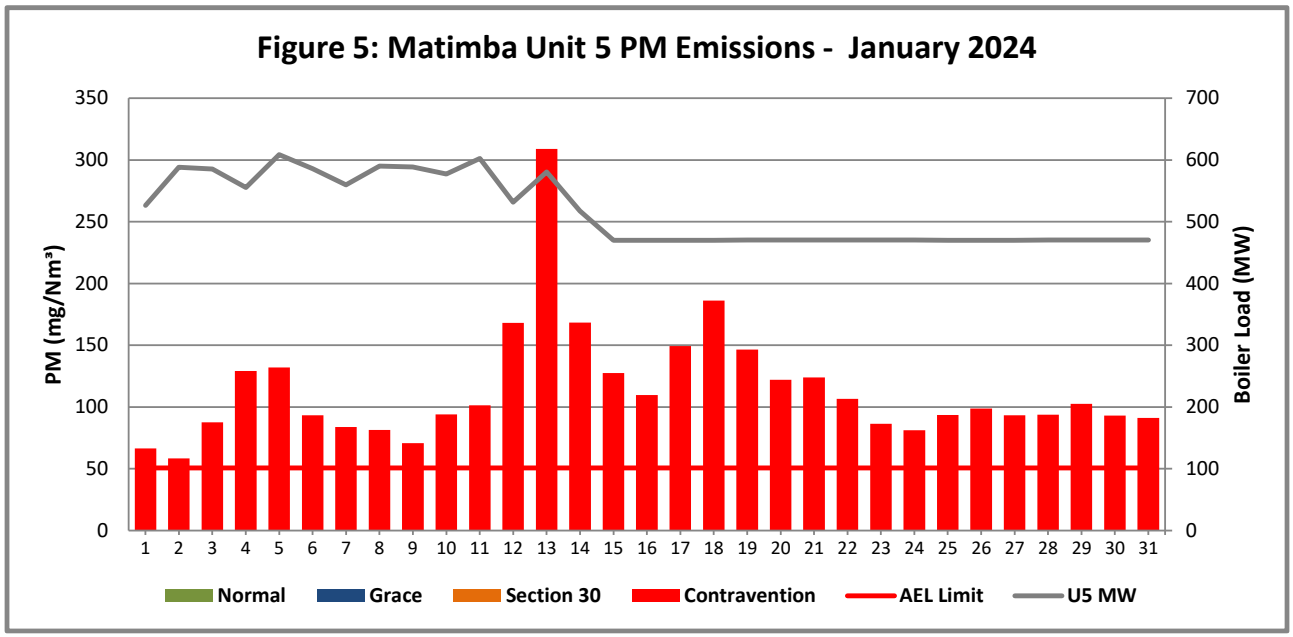

Figure 4: Particulate matter daily average emissions against emission limit for unit 5 for the month of January 2024

Interpretation:

Unit 5 Particulate matter exceeded the daily limit of 50 mg/Nm^3 on 1 to 31 January 2024. All exceedances occurred outside of the 48-hour grace period and were recorded on the Eskom incident management process as non-compliance to the Atmospheric Emissions Licence. The exceedances were due to defects on the dust handling plants leading to high hopper levels within the flue gas cleaning system and reducing the efficiency of the abatement technology (electrostatic precipitator fields). The investigation into the causes of the exceedances were done and corrective measure put in place to correct the root causes.

Unit 6 Particulate Emissions

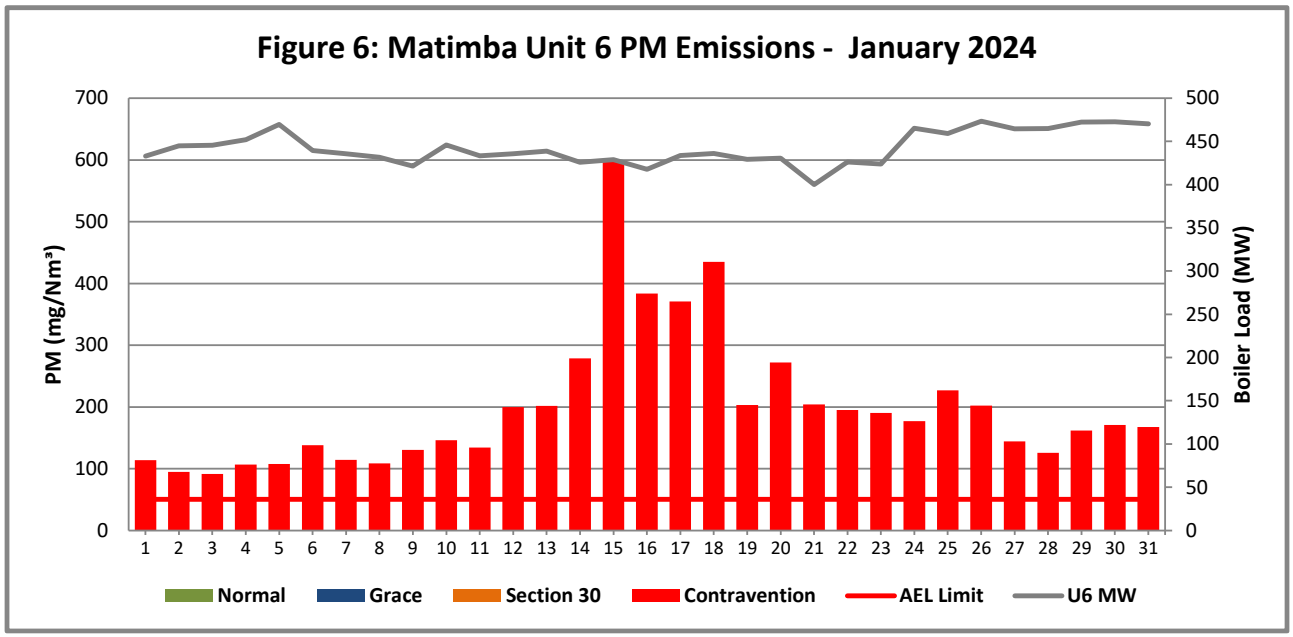

Figure 5: Particulate matter daily average emissions against emission limit for unit 6 for the month of January 2024

Interpretation:

Unit 6 Particulate matter exceeded the daily limit of 50 mg/Nm^3 on 1 to 31 January 2024. All exceedances occurred outside of the 48-hour grace period and were recorded on the Eskom incident management process as non-compliance to the Atmospheric Emissions Licence. The exceedances were due to defects on the dust handling plants leading to high hopper levels within the flue gas cleaning system and reducing the efficiency of the abatement technology (electrostatic precipitator fields). The investigation into the causes of the exceedances were done and corrective measure put in place to correct the root causes.

2.3.2 Gaseous Emissions

Gaseous emissions analyzers calibration for all 6 units were performed in January 2024 as per the AEL requirements.

The quality assurance spot tests were performed on the monitors in August 2023 and the test results are used for the January 2024 emission calculation.

Unit 1 SO_2 Emissions

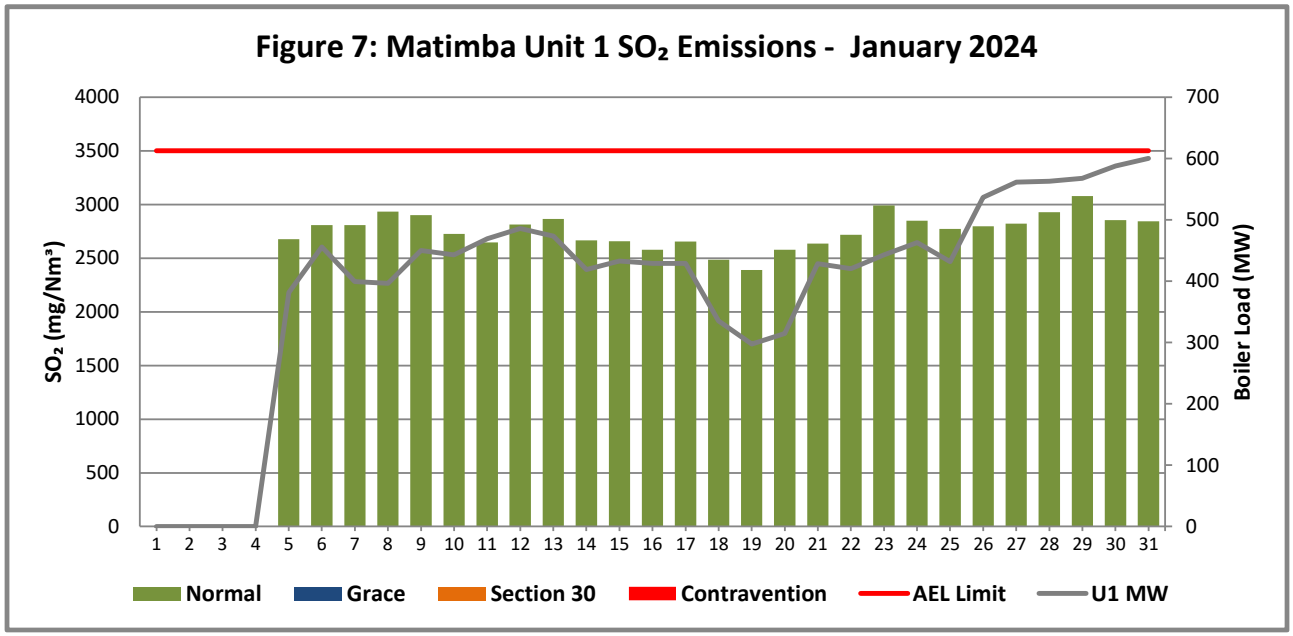

Figure 6: SO2 daily average emissions against emission limit for unit 1 for the month of January 2024

Interpretation:

All daily averages below SO_2 emission monthly limit of 3500 mg/Nm^3.

Unit 2 SO_2 Emissions

Matimba unit 2 was off for general overall during the reporting period.

Unit 3 SO_2 Emissions

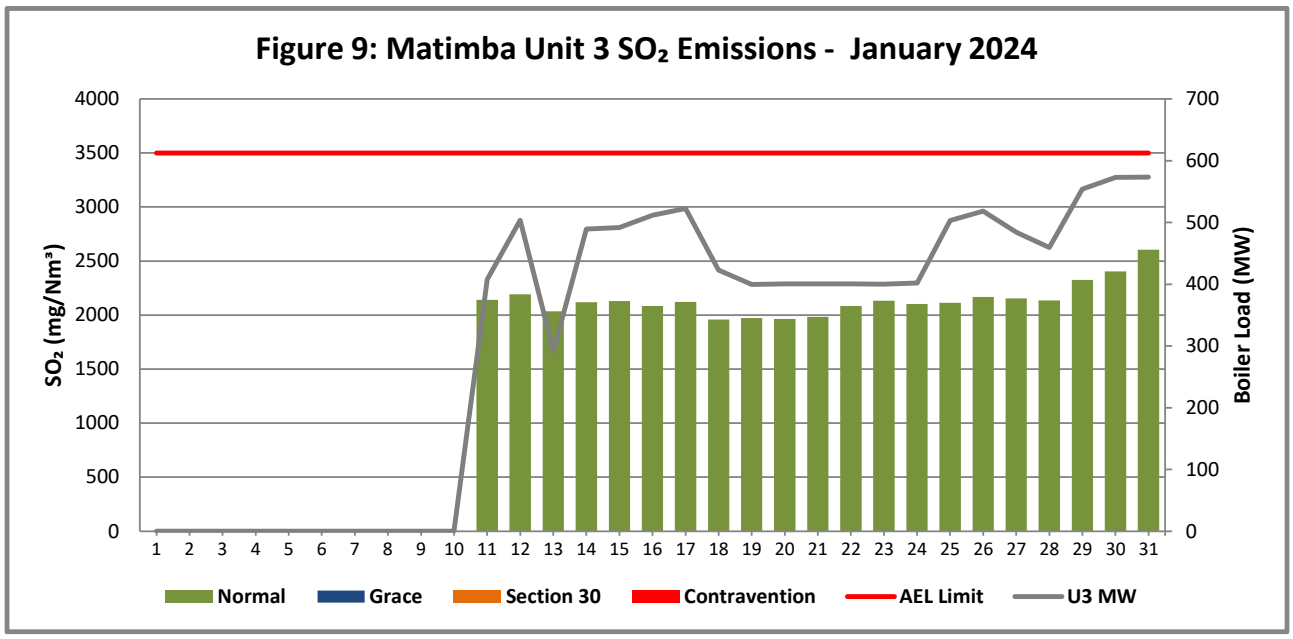

Figure 7: SO2 daily average emissions against emission limit for unit 3 for the month of January 2024

Interpretation:

All daily averages below SO_2 emission monthly limit of 3500 mg/Nm^3.

Unit 4 SO_2 Emissions

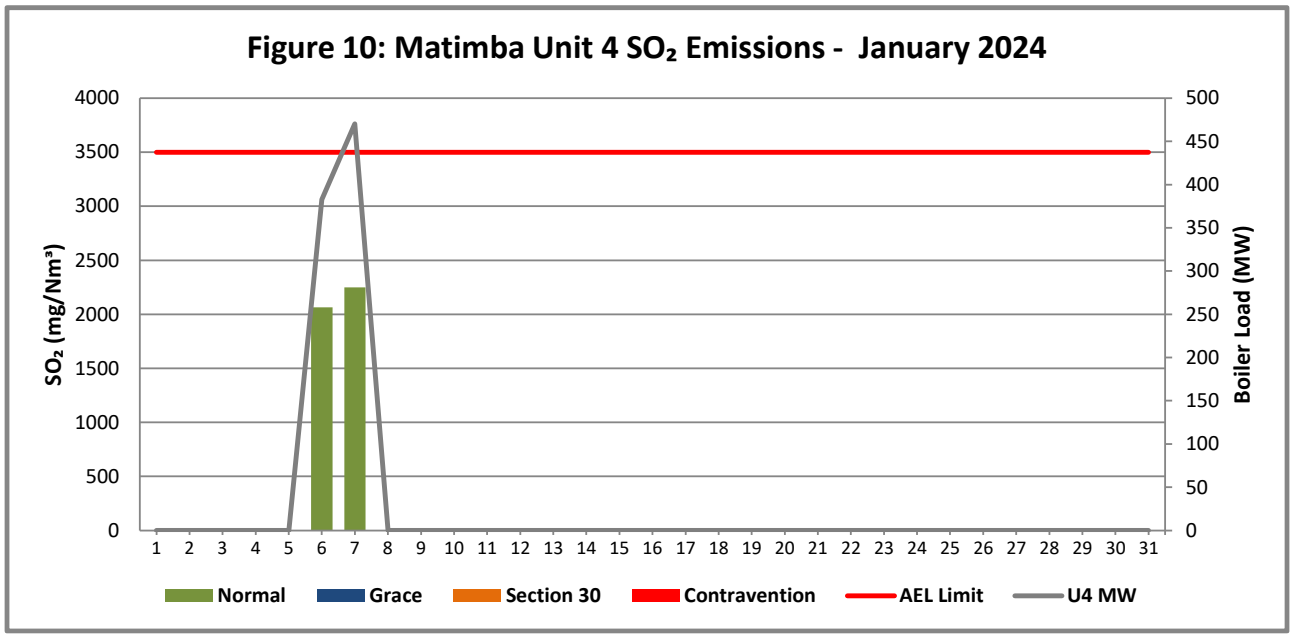

Figure 8: SO2 daily average emissions against emission limit for unit 4 for the month of January 2024

Interpretation:

All daily averages below SO_2 emission monthly limit of 3500 mg/Nm^3. The unit was started on the 5th January 2024, run up until the 8 January 2024 and tripped .

Unit 5 SO_2 Emissions

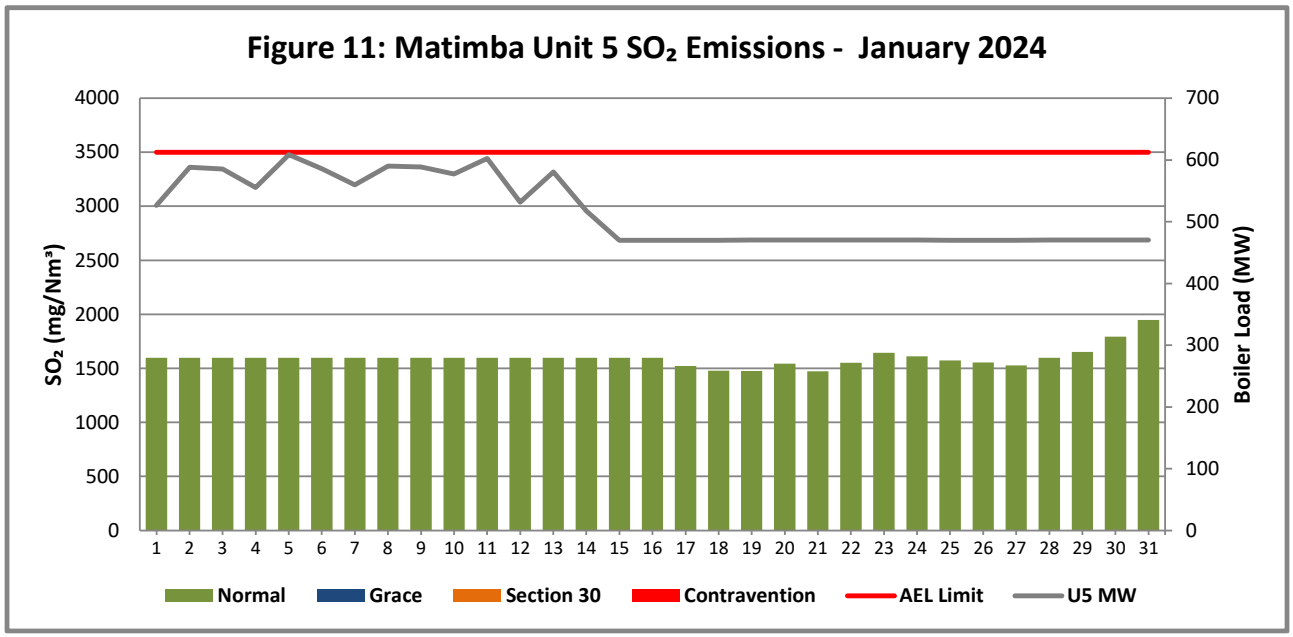

Figure 9: SO2 daily average emissions against emission limit for unit 5 for the month of January 2024

Interpretation:

All daily averages below SO_2 emission monthly limit of 3500 mg/Nm^3.

Unit 6 SO_2 Emissions

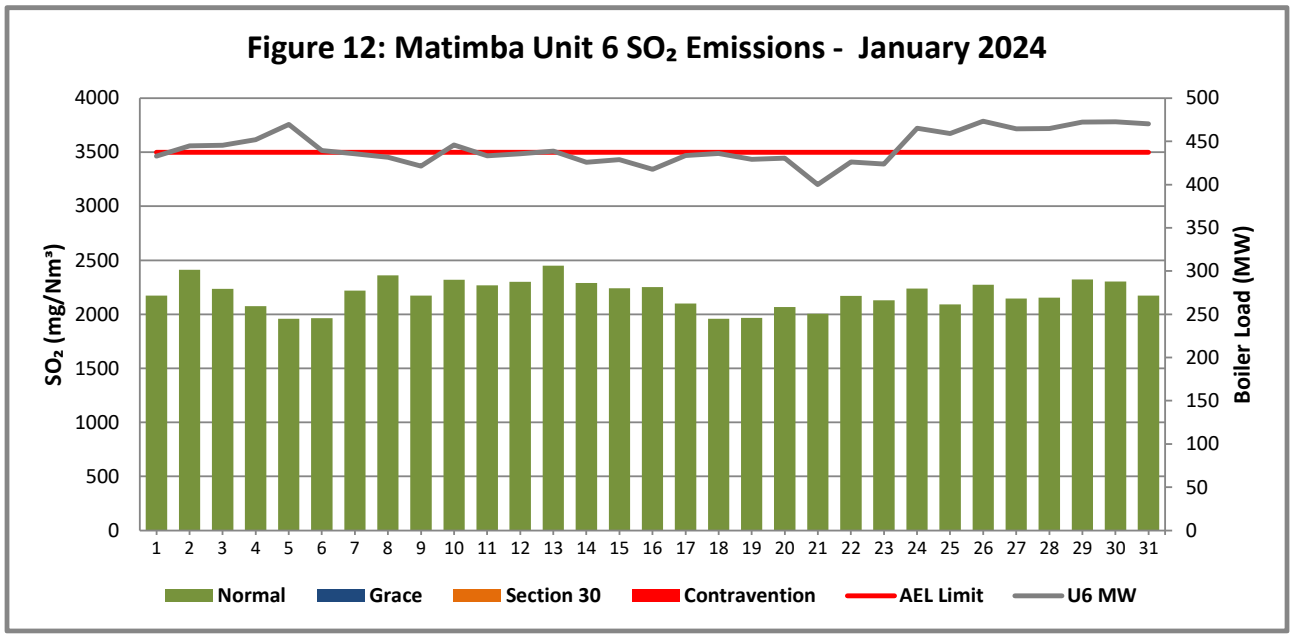

Figure 10: SO2 daily average emissions against emission limit for unit 6 for the month of January 2024

Interpretation:

All daily averages remained below SO_2 emission monthly limit of 3500 mg/Nm^3.

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Unit 1 NO_x Emissions

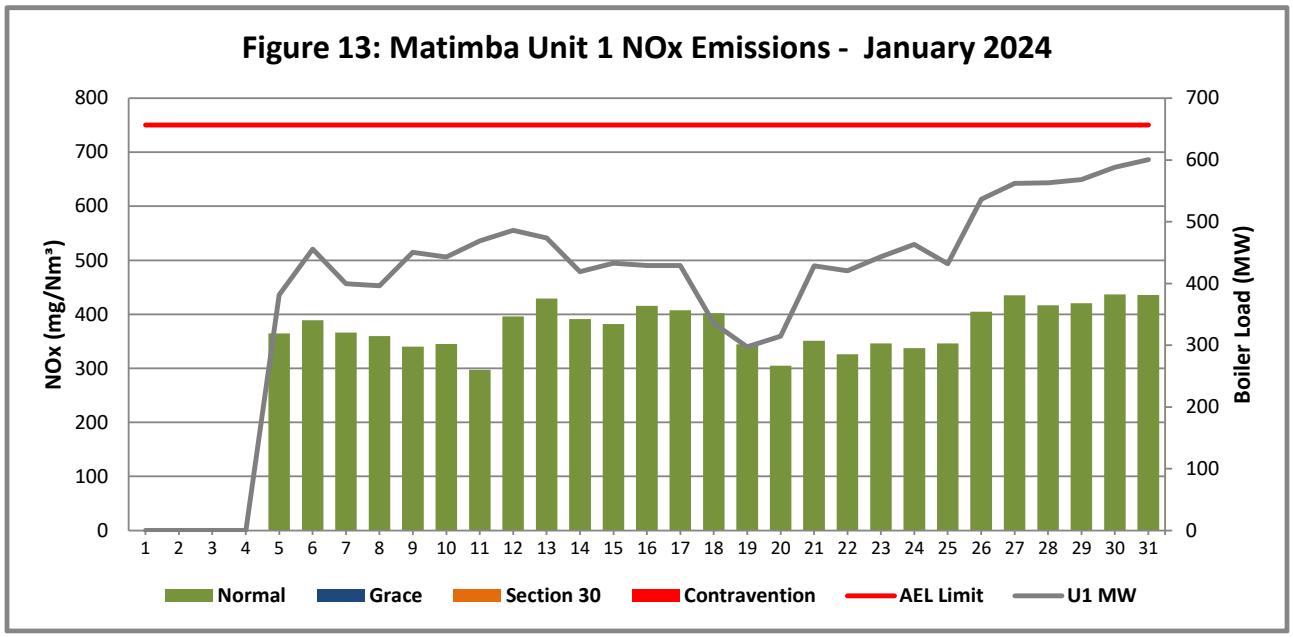

Figure 11: NOx daily average emissions against emission limit for unit 1 for the month of January 2024

Interpretation:

All daily averages below NOx emission limit of 750 mg/Nm^3.

Unit 2 NO_x Emissions

Matimba unit 2 was off for general overall during the reporting period.

Unit 3 NO_x Emissions

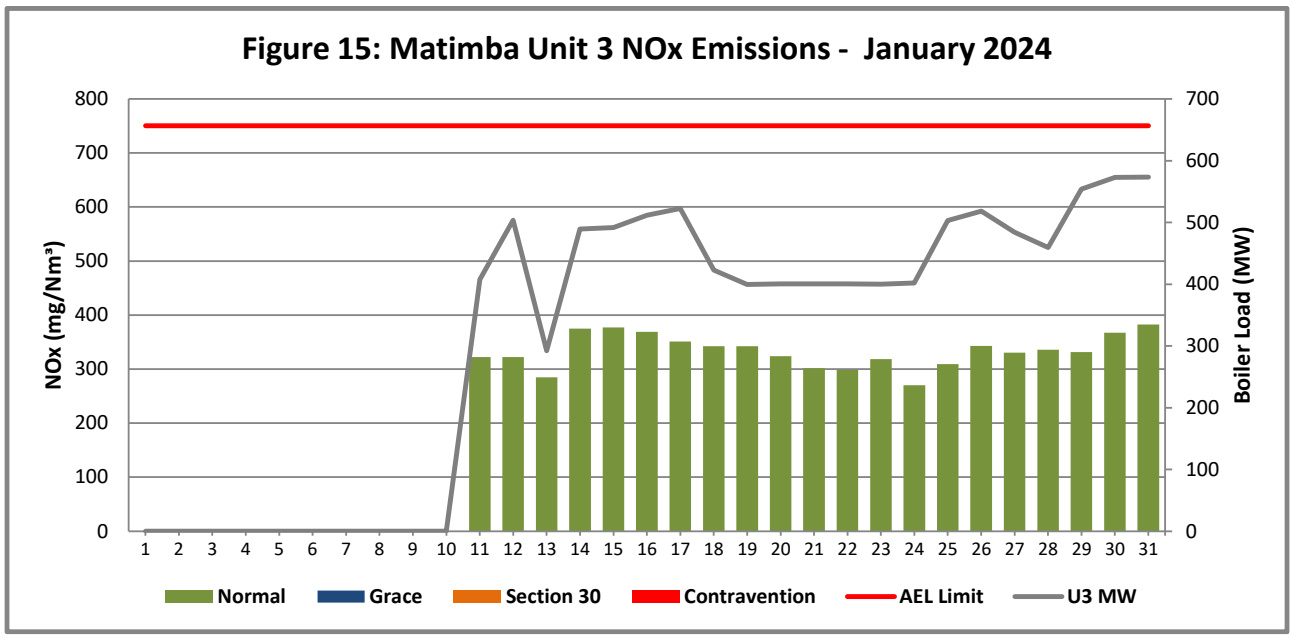

Figure 12: NOx daily average emissions against emission limit for unit 3 for the month of January 2024

Interpretation:

All daily averages below NOx emission limit of 750 mg/Nm^3.

Unit 4 NO_x Emissions

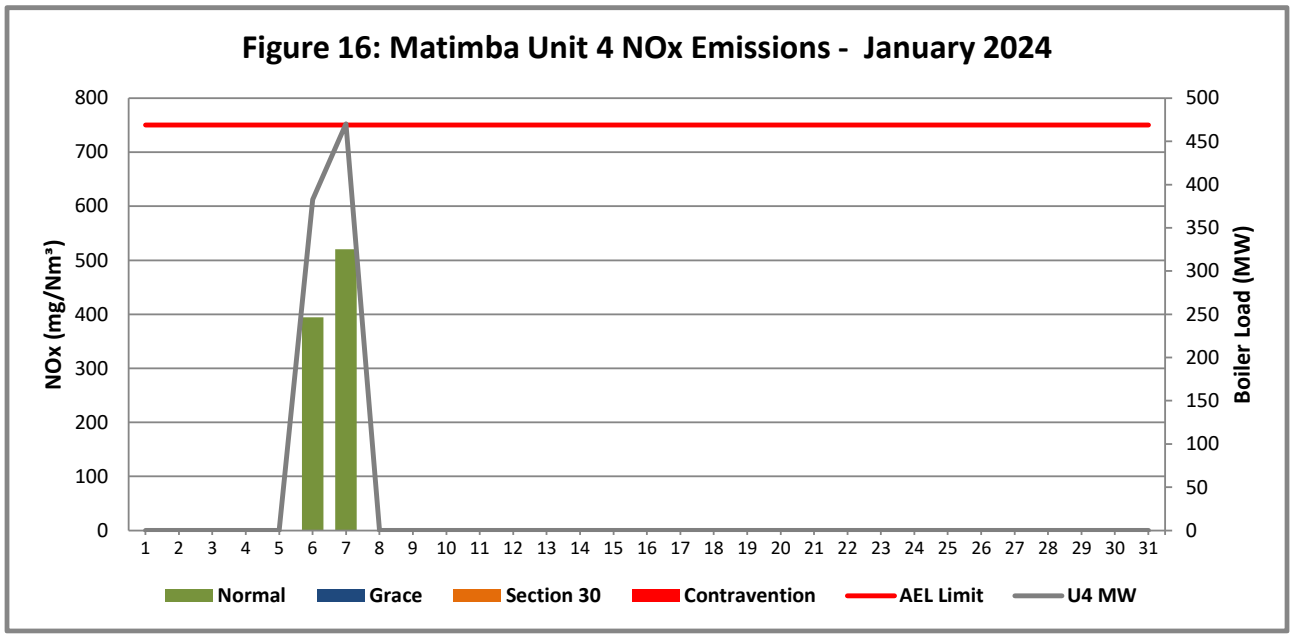

Figure 13: NOx daily average emissions against emission limit for unit 4 for the month of January 2024

Interpretation:

All daily averages below NOx emission limit of 750 mg/Nm^3. The unit was started on the 5th January 2024, run up until the 8 January 2024 and tripped .

Unit 5 NO_x Emissions

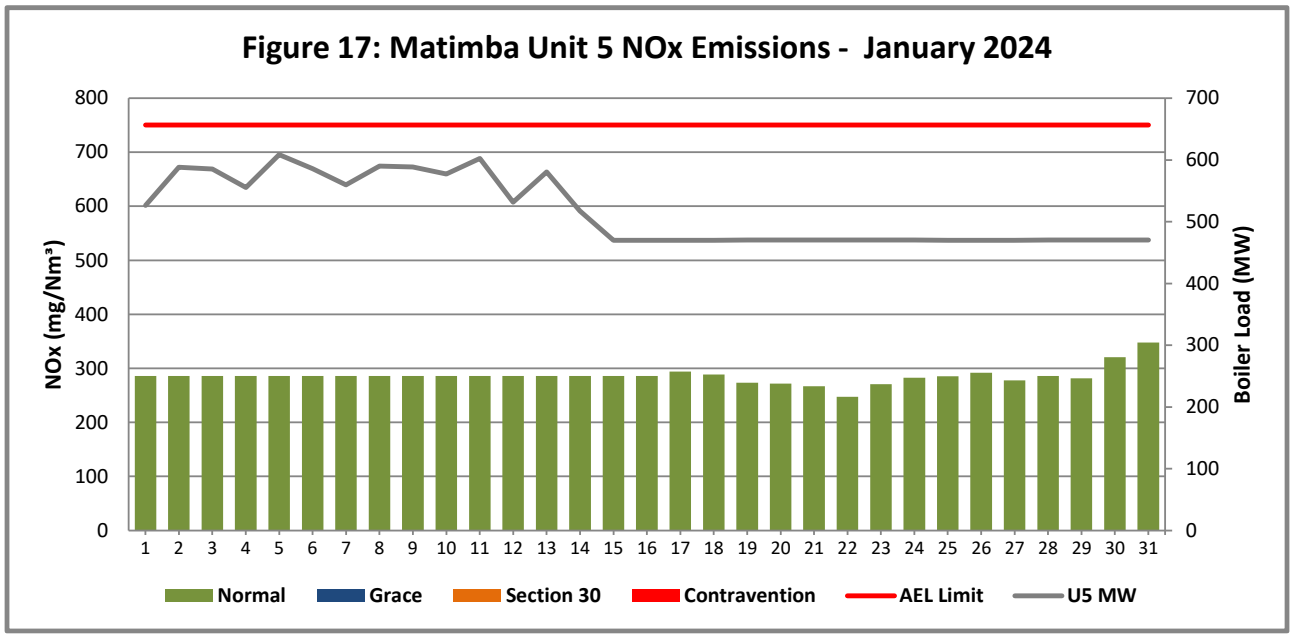

Figure 14: NOx daily average emissions against emission limit for unit 5 for the month of January 2024

Interpretation:

All daily averages below NOx emission limit of 750 mg/Nm^3.

Unit 6 NO_x Emissions

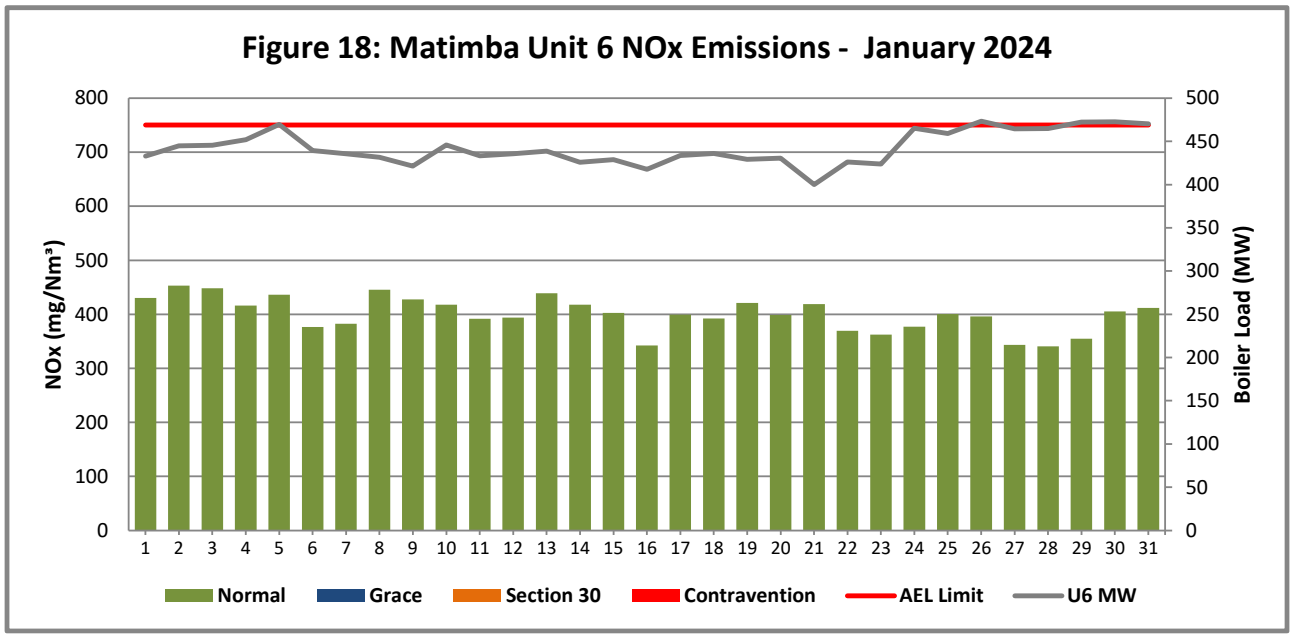

Figure 15: NOx daily average emissions against emission limit for unit 6 for the month of January 2024

Interpretation:

All daily averages below NOx emission limit of 750 mg/Nm^3.

2.3.3 Total Volatile Organic Compounds

Table 4: Total volatile compound estimates

CALCULATION OF EMISSIONS OF TOTAL VOLATILE COMPOUNDS FROM FUEL OIL STORAGE TANKS*			
Date:	Tuesday, 12 March 2024		
Station:	Matimba Power Station		
Province:	Limpopo Province		
Tank no.	1-4		
Description:	Outdoor fuel oil storage tank		
Tank Type:	Vertical fixed roof (vented to atmosphere)		
Material stored:	Fuel Oil 150		
MONTHLY INPUT DATA FOR THE STATION **Please only insert relevant monthly data inputs into the *blue cells* below** **Choose from a dropdown menu in the *green cells*** **The total VOC emissions for the month are in the *red cells*** IMPORTANT: Do not change ***any*** other cells without consulting the AQ CoE			
MONTH:	**January**		
GENERAL INFORMATION:		**Data**	**Unit**
Total number of fuel oil tanks:		4	NA
Height of tank:		13.34	m
Diameter of tank:		9.53	m
Net fuel oil throughput for the month:		***1817.724***	
Molecular weight of the fuel oil:		166.00	Lb/lb-mole
METEROLOGICAL DATA FOR THE MONTH		**Data**	**Unit**
Daily average ambient temperature		25.11	°C
Daily maximum ambient temperature		31.57	°C
Daily minimum ambient temperature		17.48	°C
Daily ambient temperature range		14.10	°C
Daily total insolation factor		5.87	kWh/m²/day
Tank paint colour		***Grey/medium***	NA
Tank paint solar absorbtance		0.68	NA
FINAL OUTPUT:		**Result**	**Unit**
Breathing losses:		0.60	kg/month
Working losses:		0.05	kg/month
TOTAL LOSSES (Total TVOC Emissions for the month):		**0.65**	**kg/month**
*Calculations performed on this spreadsheet are taken from the USEPA AP-42- Section 7.1 Organic Liquid Storage Tanks - January 1996. This spreadsheet is derived from materials provided by Jimmy Peress, PE, Tritech Consulting Engineers, 85-93 Chevy Chase Street, Jamaica, NY 11432 USA, Tel - 718-454-3920, Fax - 718-454-6330, e-mail - PeressJ@nyc.rr.com.			

2.3.4 Greenhouse gas (CO_2) emissions

CO_2 emissions are reported in terms of the Greenhouse gas reporting regulations (GN 43712, GNR. 994/2020) and are not included in the monthly AEL compliance report.

2.4 Daily power generated

Table 5: Daily power generated per unit in MWh for the month of January 2024

Date	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
2024/01/01					11382.4	9303
2024/01/02					12735.4	9576.25
2024/01/03					12698.9	9599.88
2024/01/04					12018.7	9732.74
2024/01/05	4988.42				13203.7	10144.6
2024/01/06	9959.53			3528.79	12676.7	9467.06
2024/01/07	8691.17			5923.99	12103.4	9383.2
2024/01/08	8604.46				12786.8	9275.31
2024/01/09	9848.84				12764.7	9037.9
2024/01/10	9691.48				12520.9	9600.09
2024/01/11	10265.1		3379.31		13025.2	9303.06
2024/01/12	10634.5		10774.9		11547.7	9370.77
2024/01/13	10361.8		1748.21		12543.9	9433.81
2024/01/14	6434.09		10416.7		11223.5	9159.75
2024/01/15	9434.46		10502.6		10145.7	9212.69
2024/01/16	9324.38		10961.3		10150.3	8965.76
2024/01/17	9324.94		11233.3		10165	9322.55
2024/01/18	7251.61		9047.94		10183.2	9373.31
2024/01/19	6386.9		8515.03		10221.3	9228.16
2024/01/20	6737.42		8549.75		10198.3	9265.15
2024/01/21	9367.15		8531.36		10156.8	8564.37
2024/01/22	9163.78		8502.3		10156.2	9143.8
2024/01/23	9674.99		8524.16		10164.2	9091.01
2024/01/24	9767.99		8505.79		10162	10004.9
2024/01/25	8735.4		11464.3		10168.5	9898.24
2024/01/26	11722.1		11162.8		10156.6	10213.5
2024/01/27	12312.9		10393.8		10156.5	10081.6
2024/01/28	12344.6		9789.25		10162.1	10192.7
2024/01/29	12449.6		11922.2		10164.3	10288.1
2024/01/30	12897		12349.5		10164.1	10201
2024/01/31	13211.5		12373.9		10175.3	10148.2

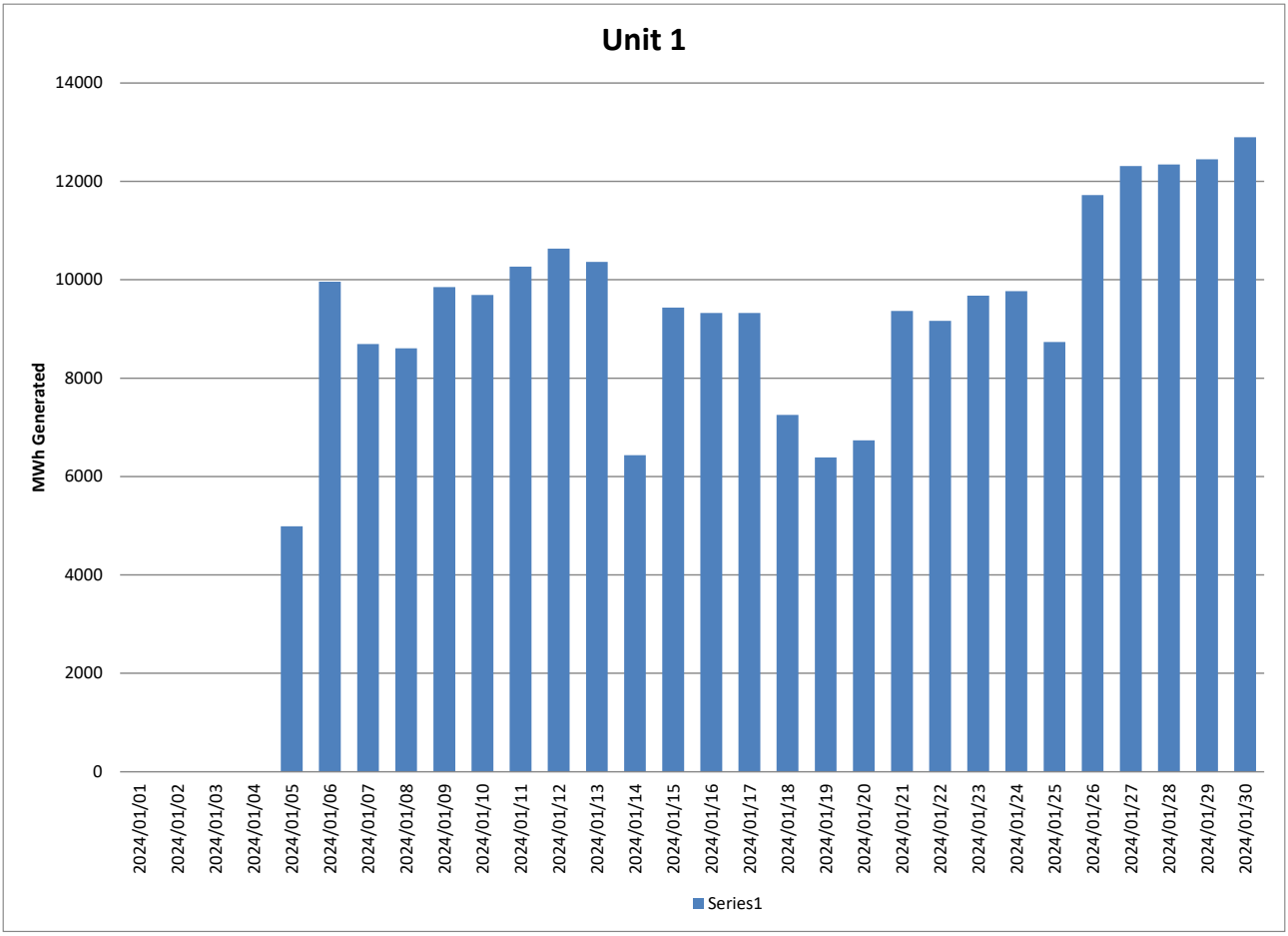

Figure 16: Unit 1 daily generated power in MWh for the month of January 2024

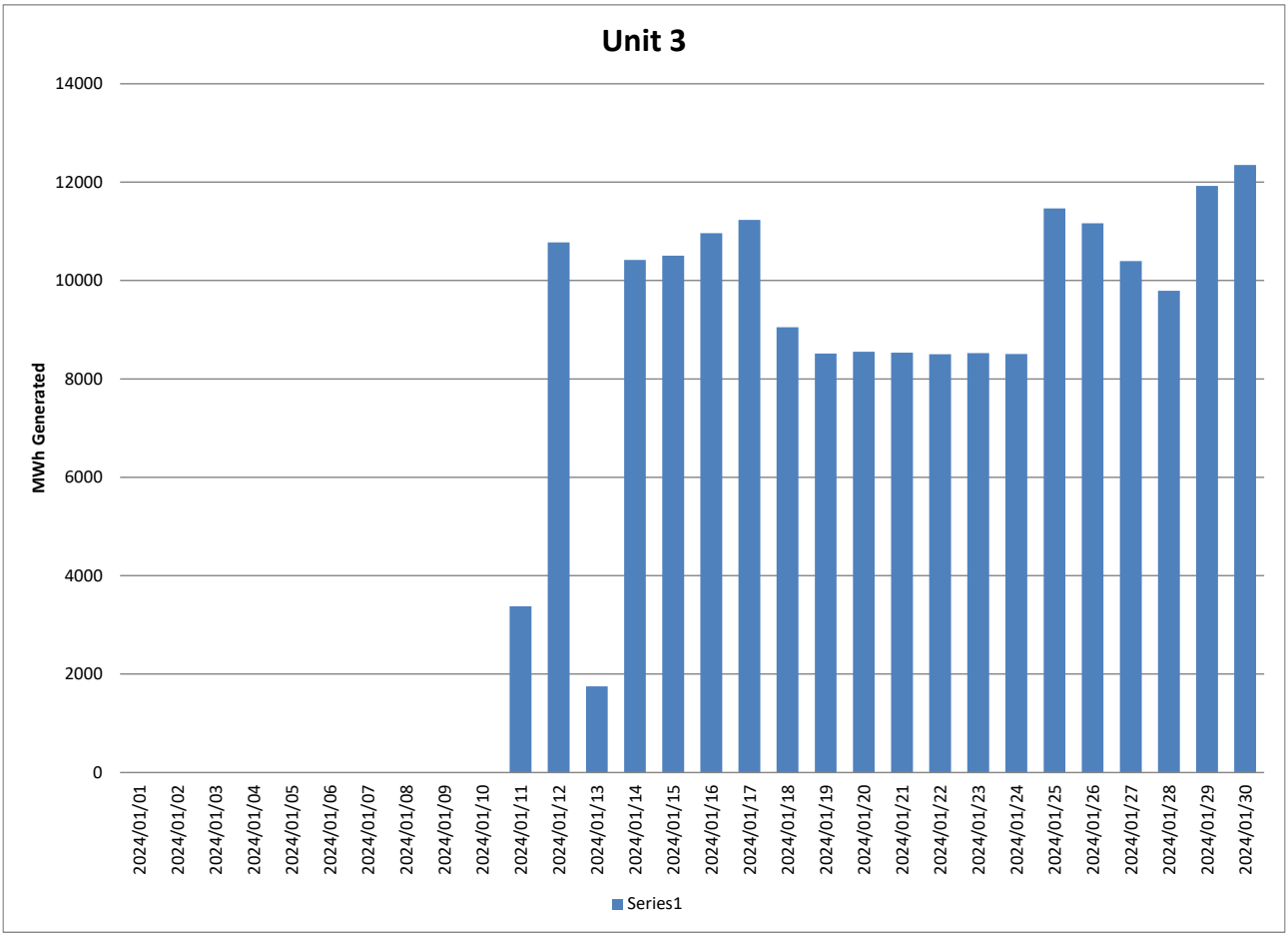

Figure 17: Unit 3 daily generated power in MWh for the month of January 2024

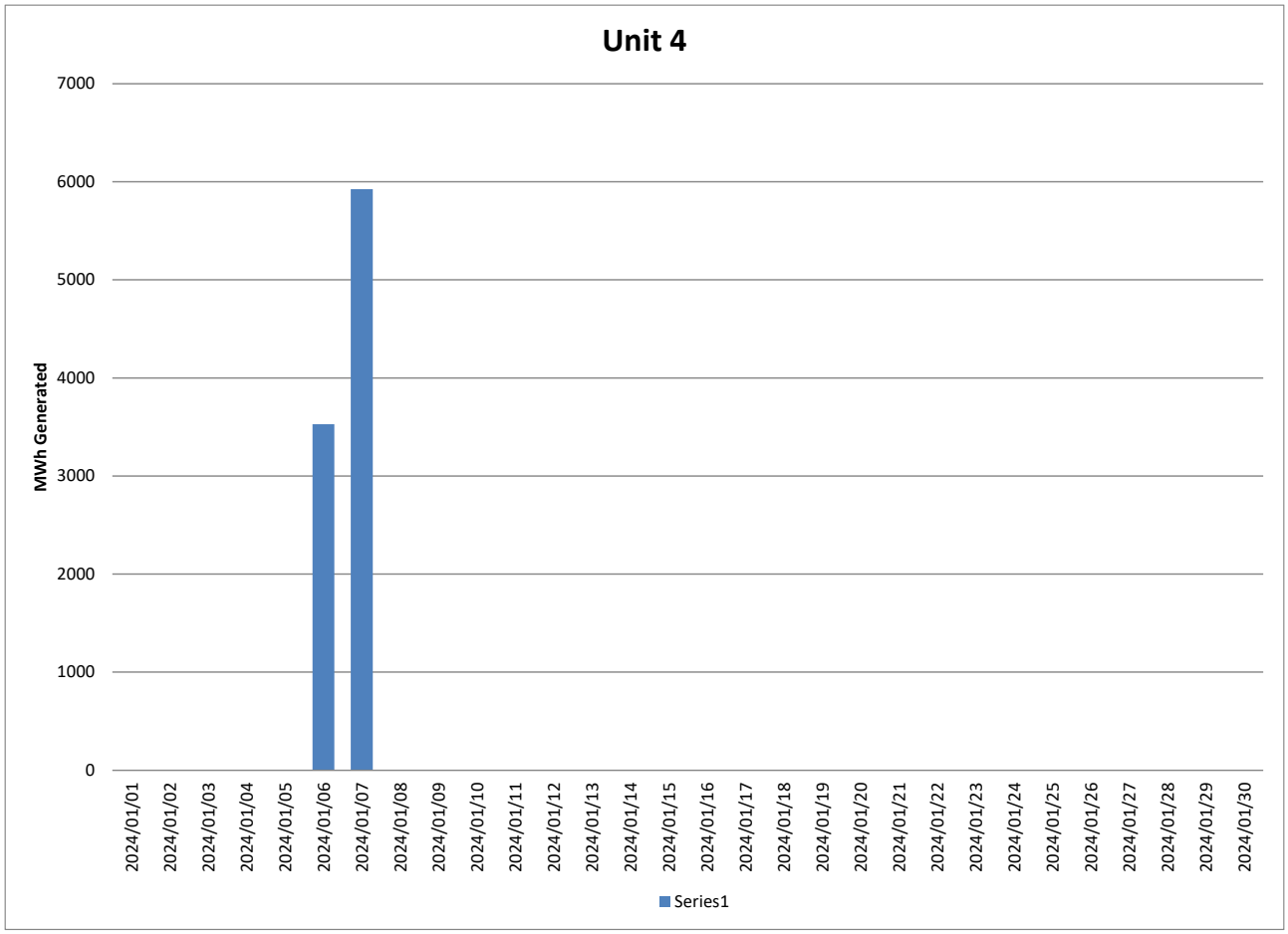

Figure 18: Unit 4 daily generated power in MWh for the month of January 2024

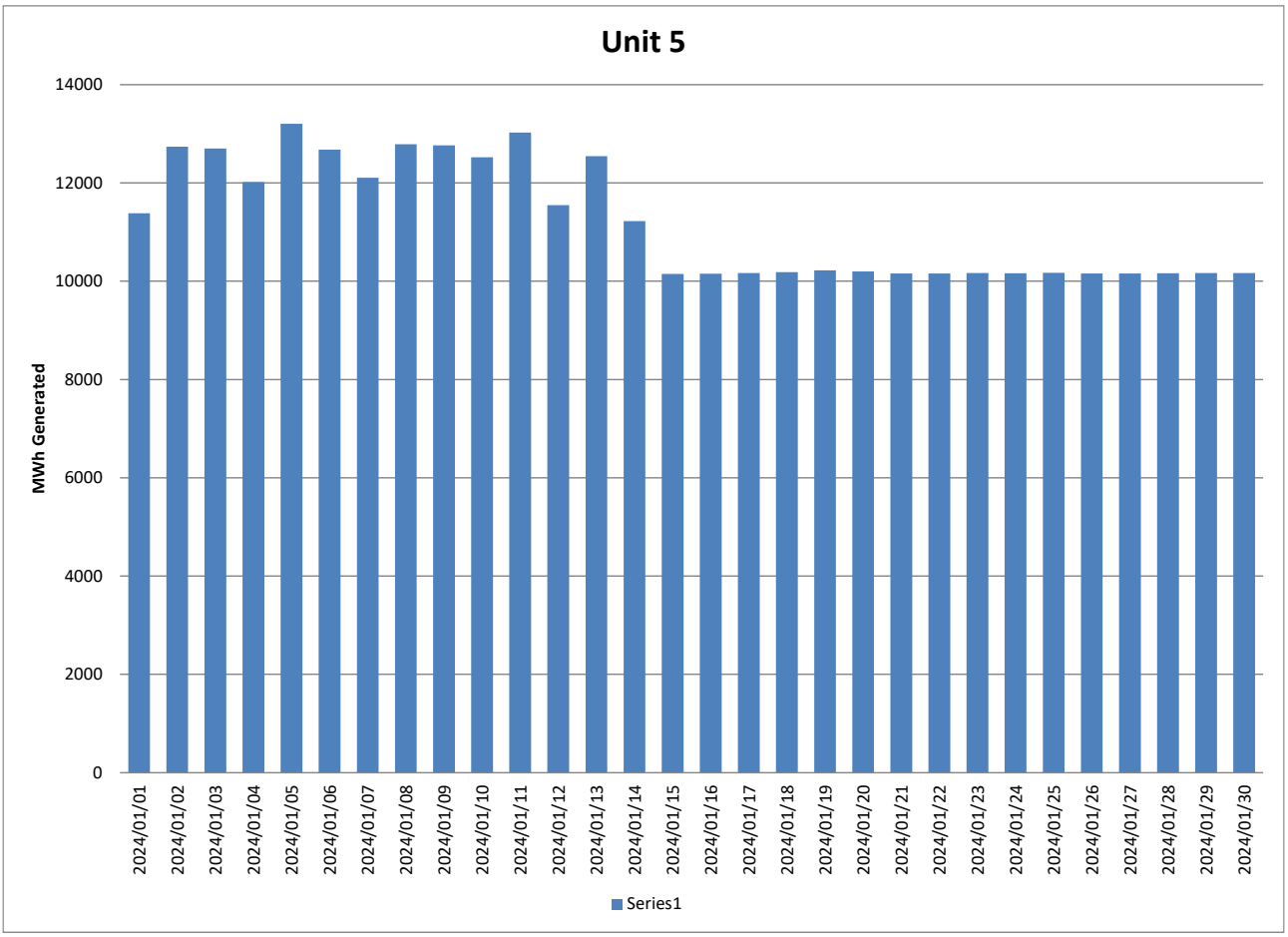

Figure 19: Unit 5 daily generated power in MWh for the month of January 2024

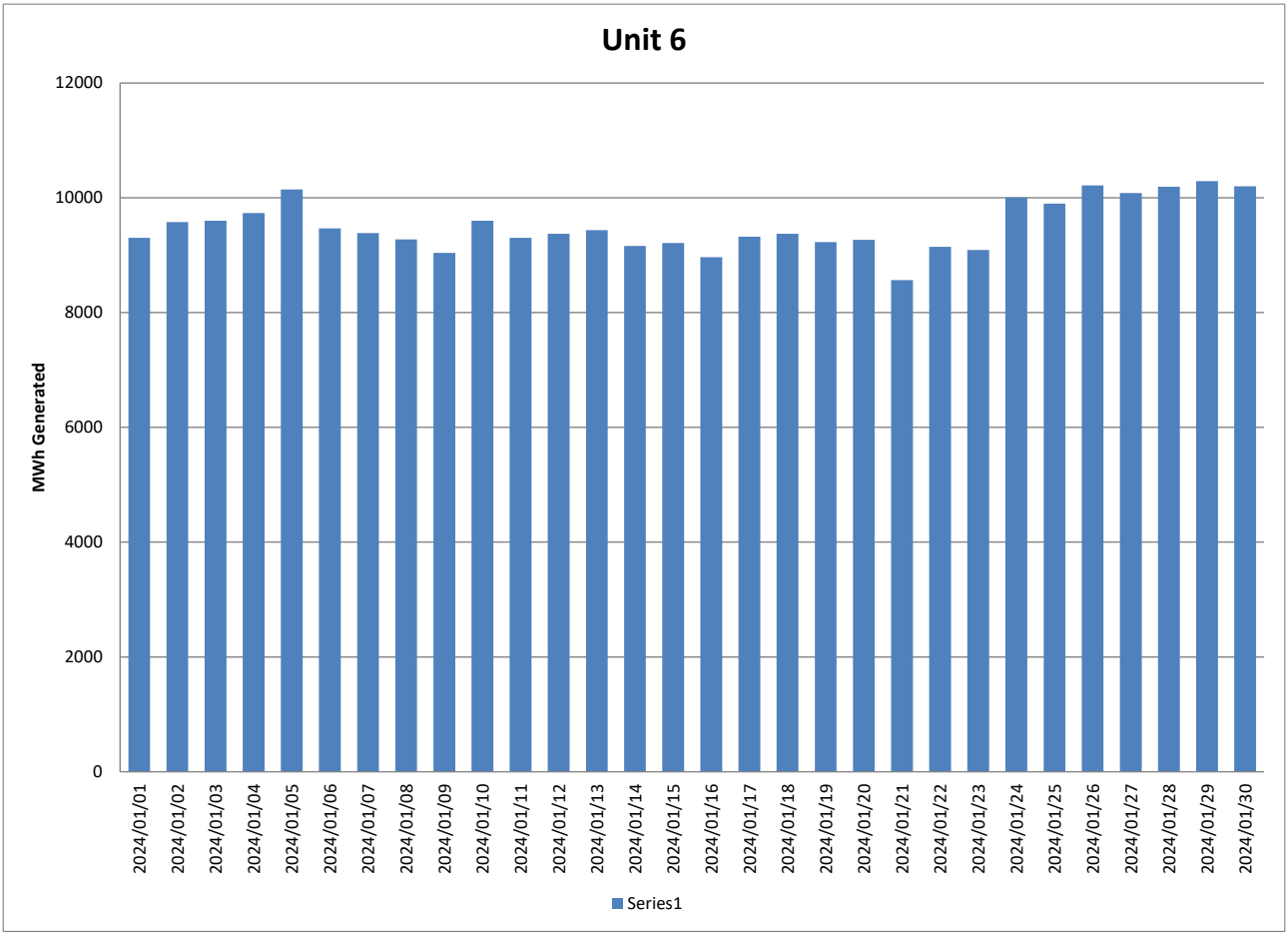

Figure 20: Unit 6 daily generated power in MWh for the month of January 2024

2.5 Pollutant Tonnages

The emitted pollutant tonnages for December2023 are provided in table 6.

Table 6: Pollutant tonnages for the month of December2023

Associated Unit/Stack	PM (tons)	SO_2 (tons)	NO_x (tons)
Unit 1	110.1	4 805.0	660.0
Unit 2	Off	Off	Off
Unit 3	27.8	3 155.8	494.6
Unit 4	2.6	140.8	30.4
Unit 5	213.4	2 966.2	531.0
Unit 6	292.6	3 225.9	589.5
SUM	646.5	14 293.7	2 305.4

2.6 Operating days in compliance to PM AEL Limit

Table 7: Operating days in compliance with PM AEL limit of January 2024

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average PM (mg/Nm³)
Unit 1	6	8	0	12	20	71.2
Unit 2	Off	Off	Off	Off	Off	Off
Unit 3	18	2	0	0	2	23.6
Unit 4	0	1	0	0	1	452.5
Unit 5	0	0	0	31	31	114.4
Unit 6	0	0	0	31	31	199.8
SUM	**24**	**11**	**0**	**74**	**85**	

2.7 Operating days in compliance to SOx AEL Limit

Table 8: Operating days in compliance with SOx AEL limit of January 2024

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average SO_2 (mg/Nm³)
Unit 1	27	0	0	0	0	2 759.0
Unit 2	Off	Off	Off	Off	Off	Off
Unit 3	21	0	0	0	0	2 139.5
Unit 4	2	0	0	0	0	2 156.5
Unit 5	31	0	0	0	0	1 596.3
Unit 6	31	0	0	0	0	2 186.9
SUM	**112**	**0**	**0**	**0**	**0**	

2.8 Operating days in compliance to NOx AEL Limit

Table 9: Operating days in compliance with NOx AEL limit of January 2024

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average NOx (mg/Nm³)
Unit 1	27	0	0	0	0	377.5
Unit 2	Off	Off	Off	Off	Off	Off
Unit 3	21	0	0	0	0	333.3
Unit 4	2	0	0	0	0	457.5
Unit 5	31	0	0	0	0	285.7
Unit 6	31	0	0	0	0	400.4
SUM	**112**	**0**	**0**	**0**	**0**	

2.9 Reference values

Table 10: Reference values for data provided, January 2024

Compound / Parameter	Units of Measure	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Oxygen	%	7.50	Off	6.79	8.01	6.37	10.76
Moisture	%	4.39	Off	4.17	3.09	4.55	2.09
Velocity	m/s	24.5	Off	26.0	22.4	20.2	25.2
Temperature	°C	135.7	Off	126.7	133.0	122.9	161.2
Pressure	mBar	923.5	Off	917.1	940.1	938.0	910.2

2.10 Continuous Emission Monitors

2.10.1 Reliability

Continuous emission monitors were available for more than 80% of the reporting period. The emitted pollutant tonnages for January 2024 are provided in table 6.

Table 11: Average percentage (%) availability of monitors for the month of January 2024.

Associated Unit/Stack	PM	SO_2	NO
Unit 1	*99.6*	*100.0*	*99.8*
Unit 2	*Off*	*Off*	*Off*
Unit 3	*100.0*	*100.0*	*100.0*
Unit 4	*100.0*	*100.0*	*100.0*
Unit 5	*97.3*	*46.5*	*46.5*
Unit 6	*100.0*	*99.3*	*99.5*

2.10.2 Changes, downtime, and repairs

Unit 1

- No adjustments done on the CEMs.
- No downtime or repairs done on the particulate monitors
- Repairs done during shut down.

Unit 2

- Unit off load

Unit 3

- No adjustments done on the CEMs.
- No downtime or repairs done on the particulate monitors
- Repairs done during shut down

Unit 4

- Off load.

Unit 5

- No adjustments done on the CEMs.
- No downtime or repairs done on the particulate monitors

Unit 6

- No adjustments done on the CEMs.
- No downtime or repairs done on the particulate monitors

2.10.3 Sampling dates and times

Table 12: Dates of last full conducted CEMS verification tests for PM for unit 4 and 6 only

Name of service provider:		Stacklabs Environmental Services CC		
Address of service provider:		10 Chisel Street Boltonia Krugersdorp 1739		
Stack/ Unit	**PM**	**SO_2**	**NOx**	**CO_2**
1	New sampling tests in table 13	New sampling tests in table 13	New sampling tests in table 13	New sampling tests in table 13
2	New sampling tests in table 13	New sampling tests in table 13	New sampling tests in table 13	New sampling tests in table 13
3	New sampling tests in table 13	New sampling tests in table 13	New sampling tests in table 13	New sampling tests in table 13
4	2021/07/13 14h31	New sampling tests in table 13	New sampling tests in table 13	New sampling tests in table 13
5	New sampling tests in table 13	New sampling tests in table 13	New sampling tests in table 13	New sampling tests in table 13
6	2020/09/09 06h41	New sampling tests in table 13	New sampling tests in table 13	New sampling tests in table 13

Note: The CEMS verification tests for PM, SO_2 and NOx were performed in October 2022 and failed. The spot tests were done in August 2023.

Table 13: Dates of last conducted CEMS Spot verification tests for PM, SO_2 and NOx (without unit 4 and 6 PMs)

Name of service provider:		Levego Environmental services		
Address of service provider:		Building R6 Pineland site Ardeer Road Modderfontein 1645		
Stack/ Unit	**PM**	**SO_2**	**NOx**	**CO_2**
1	2023/08/01 19h33	2023/08/01 19:33	2023/08/01 19:33	2023/08/01 19:33
2	2023/07/29 21:17	2023/07/29 21:17	2023/07/29 21:17	2023/07/29 21:17
3	2023/08/06 03:00	2023/08/06 03:00	2023/08/06 03:00	2023/08/06 03:00
4	Dates in table 12 above	2023/08/04 19:39	2023/08/04 19:39	2023/08/04 19:39
5	2023/08/05 07:30	2023/08/05 07:30	2023/08/05 07:30	2023/08/05 07:30
6	Dates in table 12 above	2023/08/05 15:52	2023/08/05 15:52	2023/08/05 15:52

Note: The CEMS Spot verification tests for PM, SO_2 and NOx were performed in August 2023. PM spot verification test results for units 4 and 6 failed and old curves are still in use.

2.11 Units Start-up information

Table 14: Start-up information

Unit	1	
Fires in	2024/01/05	23h20
Synchronization with Grid	2024/01/06	10h39
Emissions below limit	2024/01/07	09h00
Fires in, to synchronization	12,41	HOURS
Synchronization to < Emission limit	46,21	HOURS

Unit	1	
Fires in	2024/01/14	00h30
Synchronization with Grid	2024/01/14	06h52
Emissions below limit	2024/01/14	06h52
Fires in, to synchronization	6,22	HOURS
Synchronization to < Emission limit	0	HOURS

Unit	3	
Fires in	2024/01/11	06h17
Synchronization with Grid	2024/01/11	13h32
Emissions below limit	2024/01/11	15h00
Fires in, to synchronization	7,15	HOURS
Synchronization to < Emission limit	1,28	HOURS

Unit	3	
Fires in	2024/01/13	12h09
Synchronization with Grid	2024/01/13	18h10
Emissions below limit	2024/01/14	00h00
Fires in, to synchronization	6,1	HOURS
Synchronization to < Emission limit	5,50	HOURS

2.12 Emergency generation

Table 15: Emergency generation

	Unit 1	**Unit 2**	**Unit 3**	**Unit 4**	**Unit 5**	**Unit 6**
Emergency Generation hours declared by national Control	744	Off	744	744	744	744
Emergency Hours declared including hours after standing down	632.28	Off	474.33	25.98	744	744
Days over the Limit during Emergency Generation	20	Off	2	1	31	31

During the period under review all Units were on emergency generation in force from 01 January 2024 until 31 January 2024.

2.13 Complaints register.

Table 16: Complaints

Source Code/ Name	**Root Cause Analysis**	**Calculation of Impacts/ emissions associated with the incident**	**Dispersion modelling of pollutants where applicable**	**Measures implemented to prevent reoccurrence**	**Date by which measure will be implemented**
None					

2.14 Air quality improvements and social responsibility conducted.

2.14.1 Air quality improvements

None

2.14.2 Social responsibility conducted.

None

2.15 Ambient air quality monitoring

Ambient air quality monitoring report was not available at the time of publishing this report.

2.16 Electrostatic precipitator and Sulphur plant status

Unit 1

- 9 fields out of service, will be repaired during next opportunity.
- No abnormalities on the SO3 plant. Preventive maintenance done during the month.
- Repairs done during shut down

Unit 2

- Unit off

Unit 3

- 1 field out of service, will be repaired during next opportunity.
- No abnormalities on the SO3 plant. Preventative maintenance done during the month.
- Repairs done during shut down

Unit 4

- Off load.

Unit 5

- 4 fields out of service, will be repaired during next opportunity.
- No abnormalities on the SO3 plant. Preventative maintenance done during the month.

Unit 6

- 8 fields out of service, will be repaired during next opportunity.
- No abnormalities on the SO3 plant. Preventative maintenance done during the month.

SO3 common plant

- No abnormalities on the sulphur storage plant.

2.17 General

Name and reference number of the monitoring methods used:

1. Particulate and gas monitoring according to standards
    a. BS EN 14181:2004 - Quality Assurance of Automated Measuring Systems
    b. ESKOM internal standard 240-56242363 Emissions Monitoring and Reporting Standard

Sampling locations:

1. Stack one
    a. Particulates:
        i. S23º 40' 2.8" E027º 36' 34.8" 175m from ground level and 75m from the top.
    b. Gas:
        i. S23º 40' 2.8" E027º 36' 34.8" 100m from ground level and 150m from the top.
    c. Stack height
        i. 250 meter consist of 3 flues
2. Stack two
    a. Particulates:
        i. S23º 40' 14.8" E027º 36' 47.5" 175m from ground level and 75m from the top.
    b. Gas:
        i. S23º 40' 14.8" E027º 36' 47.5" 100m from ground level and 150m from the top.
    c. Stack height
        i. 250 meter consist of 3 flues

3. Attachments

None

4. Report Conclusion

The rest of the information demonstrating compliance with the emission license conditions is supplied in the annual emission report sent to your office.

Hoping the above will meet your satisfaction.

I hereby declare that the information in this report is correct.

Yours sincerely

Wikus van Rensburg

GENERAL MANAGER: MATIMBA POWER STATION