	Technical and Generic Report	Matimba Power Station
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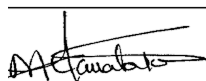
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Figure 19: Unit 5 daily generated power in MWh for the month of December 202321

Figure 20: Unit 6 daily generated power in MWh for the month of December 202322

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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 is the revision 2 of the report submitted to the licensing authority in December 2023. The revision of the report was necessitated by changes applied to the Matimba Emission Reporting tool (ERT V12.2021 to ERT V02.2024VF), which included the implementation of the spot test correlations and parallel tests (QAL 2) tests performed in July-August 2023 and the usage of surrogate particulate emissions values when monitors exceed their range due to high actual emissions using the Deutsch calculation.



During the period under review, Matimba experienced eighty-six (86) exceedances of the daily particulate matter emission limit (50mg/Nm³), eighty-one (81) 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 five (5) exceedances occurred within the 48-hour grace period.

There were no exceedances of the monthly SO_x limit (3500mg/Nm³) and the daily NO_x 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. Unit 6 SO₃ plant experienced recurring low precipitator temperatures which cause the plant to be constantly on hold throughout the month. Issues and defects that affected the availability were addressed and the plants returned to operation.

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

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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	735 874
	Fuel Oil	Tons/month	1 200	1075.537
Production Rates	Product/ By-Product Name	Unit	Maximum Production Capacity Permitted (Quantity)	Production Rate
	Energy	MW	4000	1735.745

The consumption rates for the month of December 2023 were all within the permitted maximum limits.

2.2 Abatement technology

Table 2: Abatement Equipment Control Technology Utilised

Associated Unit	Technology Type	Minimum utilisation (%)	Efficiency (%)
Unit 1	Electrostatic Precipitator	100%	99,99%
Unit 2	Electrostatic Precipitator	100%	Unit Off
Unit 3	Electrostatic Precipitator	100%	99,99%
Unit 4	Electrostatic Precipitator	100%	99,99%
Unit 5	Electrostatic Precipitator	100%	99,99%
Unit 6	Electrostatic Precipitator	100%	99,99%
Associated Unit	Technology Type	Minimum utilisation (%)	Actual Utilisation (%)
Unit 1	SO ₃ Plant	100%	94%
Unit 2	SO ₃ Plant	100%	OFF
Unit 3	SO ₃ Plant	100%	97%
Unit 4	SO ₃ Plant	100%	100%
Unit 5	SO ₃ Plant	100%	98%
Unit 6	SO ₃ Plant	100%	85%

Flue gas conditioning plant availability was below the required 100% for Unit 1,3,5 and 6 due to unplanned breakdowns and defects. Unit 6 SO₃ plant was on hold throughout the month due to precipitator temperature low. Defects were addressed and plants returned to service.

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Table 3: Energy Source Material Characteristics.

	Characteristic	Stipulated Range (Unit)	Monthly Average Content
Coal burned	Sulphur Content	1.6%	1,40%
	Ash Content	40%	34,96%

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

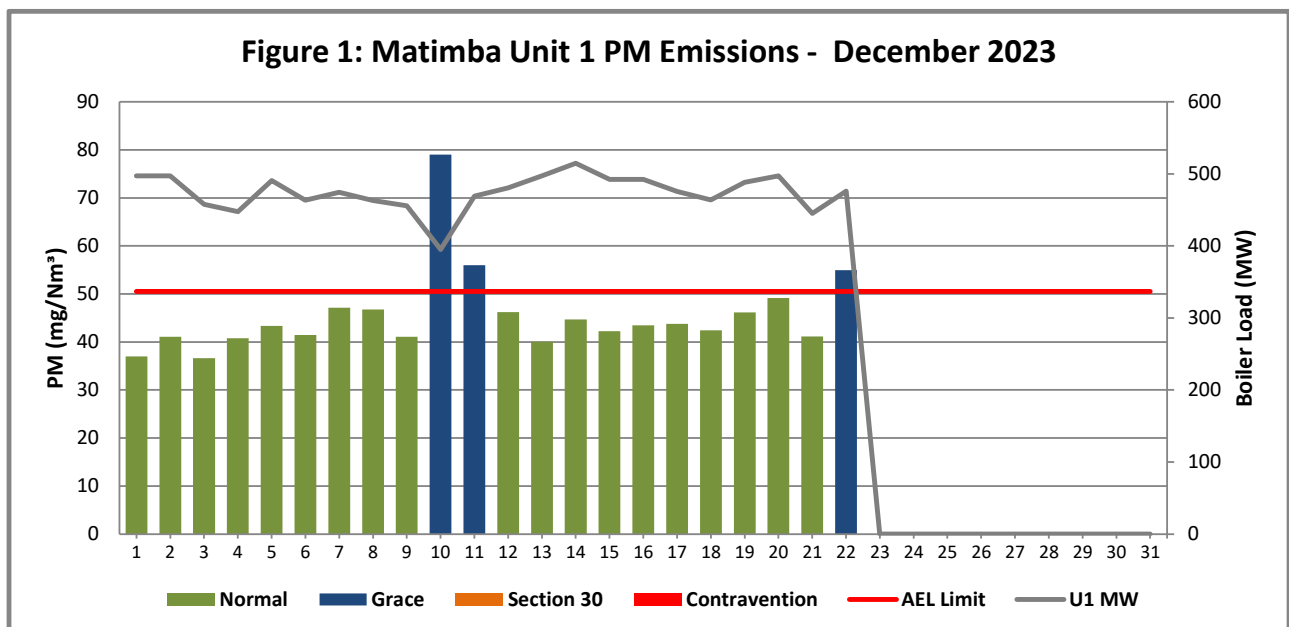


Figure 1: Particulate matter daily average emissions against emission limit for unit 1 for the month of December 2023

Interpretation:

Unit 1 exceeded the daily particulate emission limit of 50mg/Nm³ on 10, 11 and 22 December 2023. The exceedance was 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). The exceedance remained within the 48-hour grace period. Unit was taken off load on 23 December 2023.

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Unit 2 Particulate Emissions

Unit 2 off load

Unit 3 Particulate Emissions

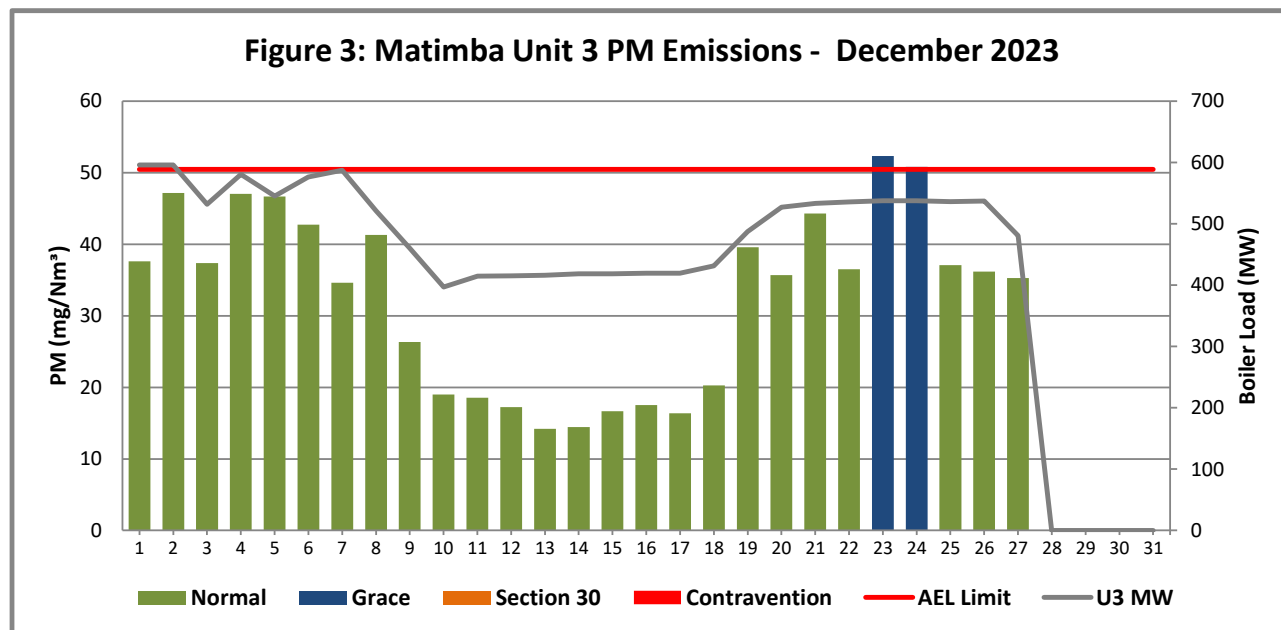


Figure 2: Particulate matter daily average emissions against emission limit for unit 3 for the month of December 2023

Interpretation:

Unit 3 exceeded the daily particulate emission limit of 50mg/Nm³ on 23 and 24 December 2023. All exceedances occurred 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). The unit was taken off load on 28 December 2023.

Unit 4 Particulate Emissions

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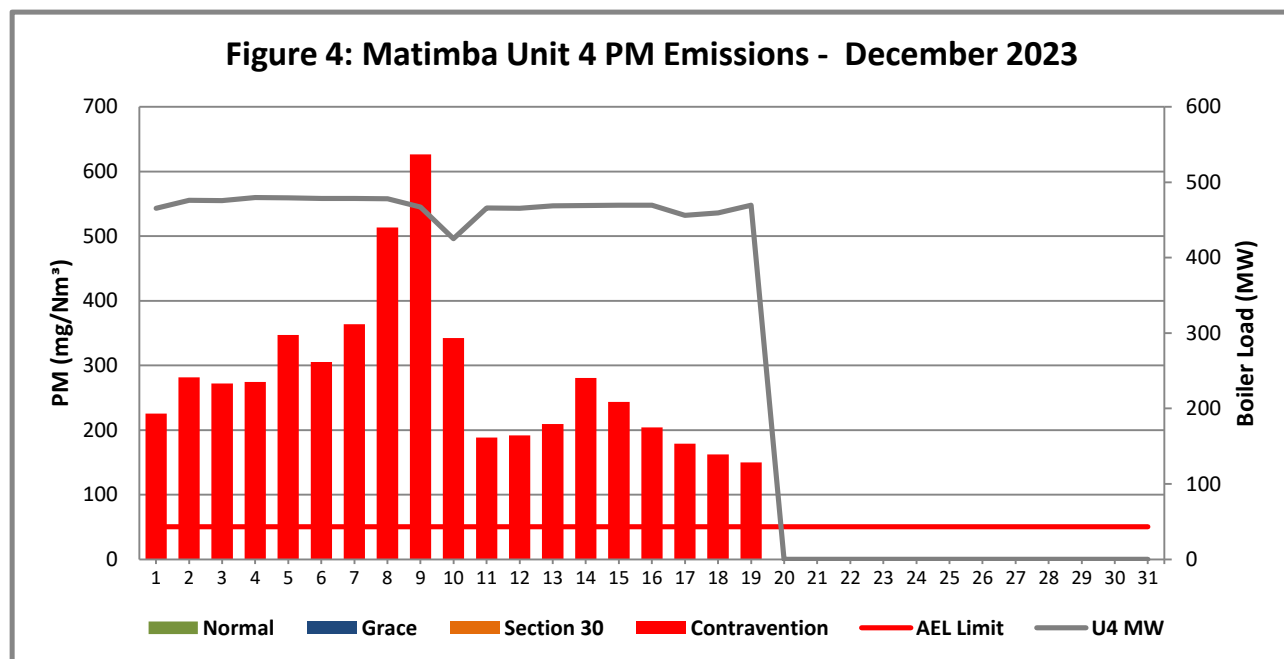


Figure 3: Particulate matter daily average emissions against emission limit for unit 4 for the month of December 2023

Interpretation:

Unit 4 Particulate matter exceeded the daily limit of 50 mg/Nm³ on 1 to 19 December 2023. 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. The unit was taken off load on 20 December 2023.

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Unit 5 Particulate Emissions

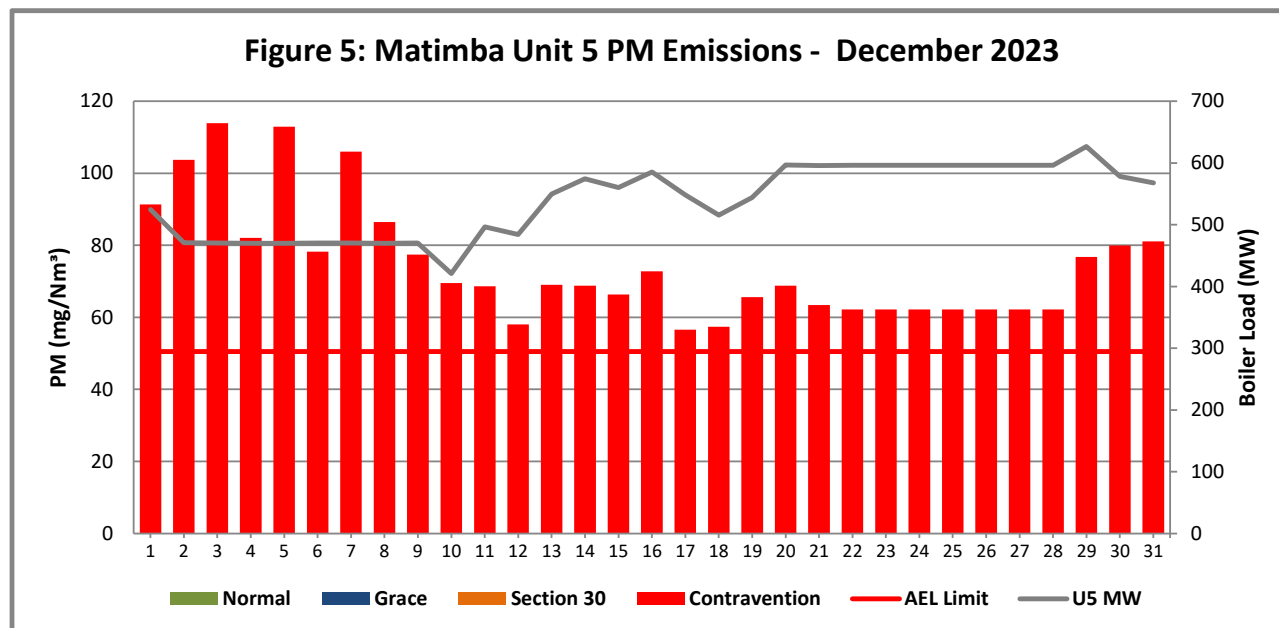


Figure 4: Particulate matter daily average emissions against emission limit for unit 5 for the month of December 2023

Interpretation:

Unit 5 Particulate matter exceeded the daily limit of 50 mg/Nm³ on 1 to 31 December 2023. 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.

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Unit 6 Particulate Emissions

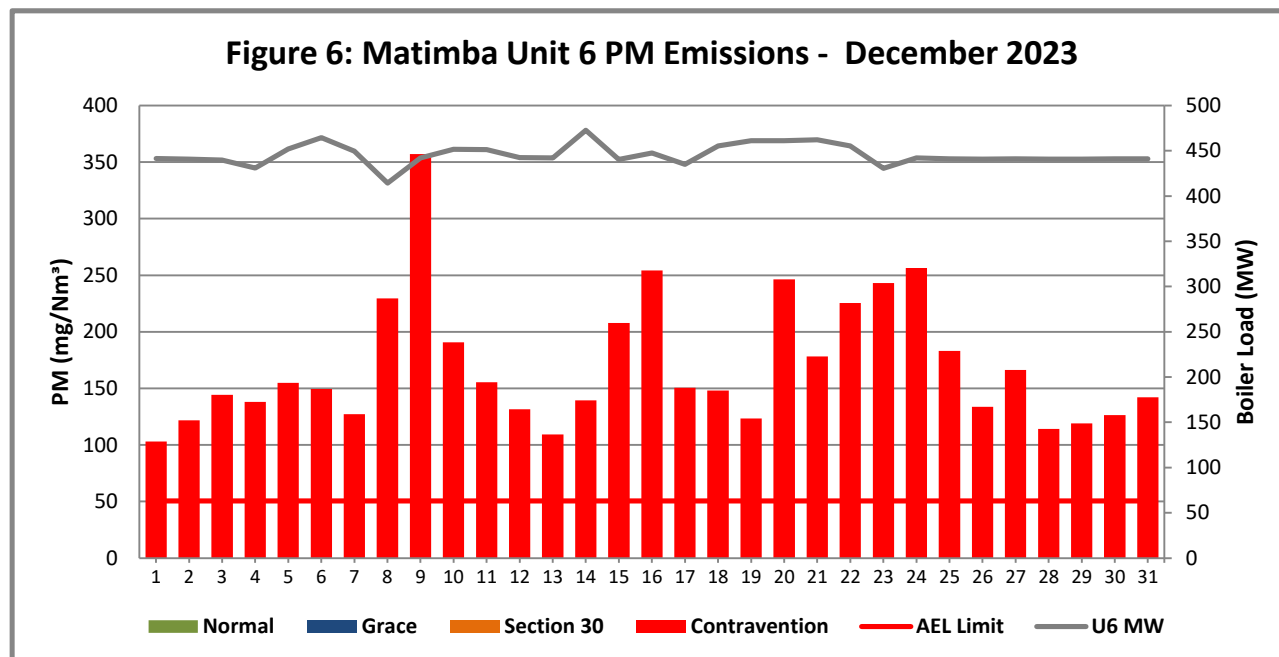


Figure 5: Particulate matter daily average emissions against emission limit for unit 6 for the month of December 2023

Interpretation:

Unit 6 Particulate matter exceeded the daily limit of 50 mg/Nm³ on 1 to 31 December 2023. 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.

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2.3.2 Gaseous Emissions

Gaseous emissions analyzers calibration for all 6 units were performed in December 2023 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 December 2023 emission calculation.

Unit 1 SO₂ Emissions

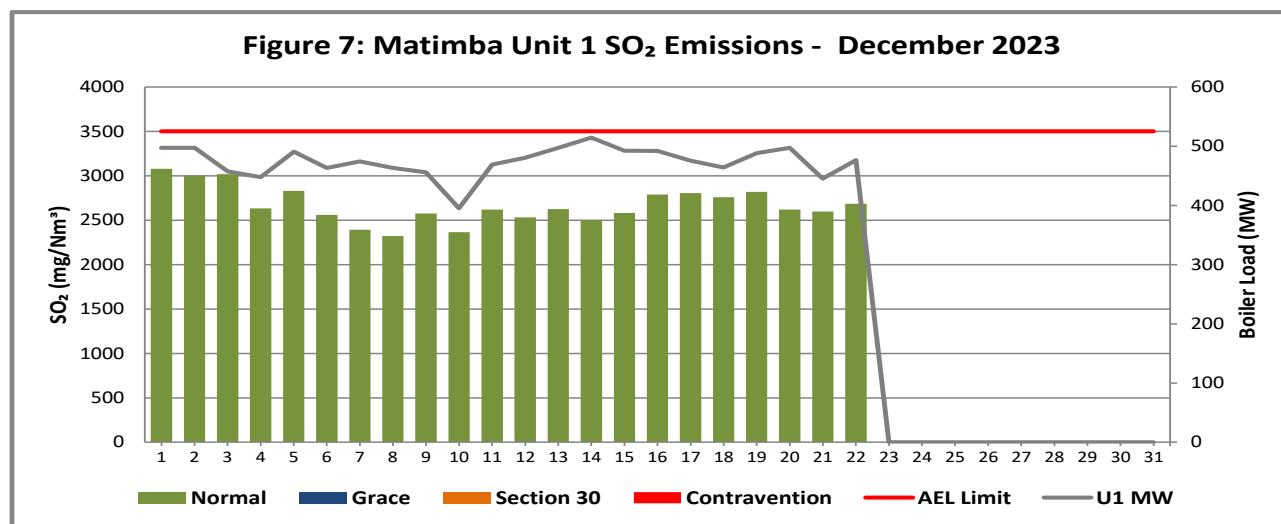


Figure 6: SO₂ daily average emissions against emission limit for unit 1 for the month of December 2023

Interpretation:

All daily averages below SO₂ emission monthly limit of 3500 mg/Nm³.

Unit 2 SO₂ Emissions

Unit 2 off load

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Unit 3 SO₂ Emissions

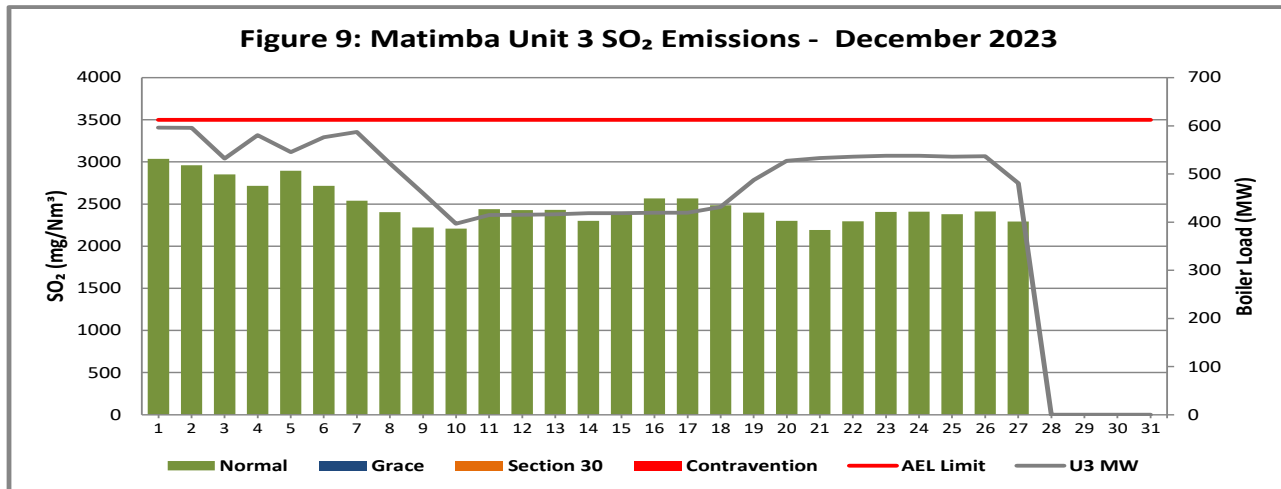


Figure 7: SO₂ daily average emissions against emission limit for unit 3 for the month of December 2023

Interpretation:

All daily averages below SO₂ emission monthly limit of 3500 mg/Nm³.

Unit 4 SO₂ Emissions

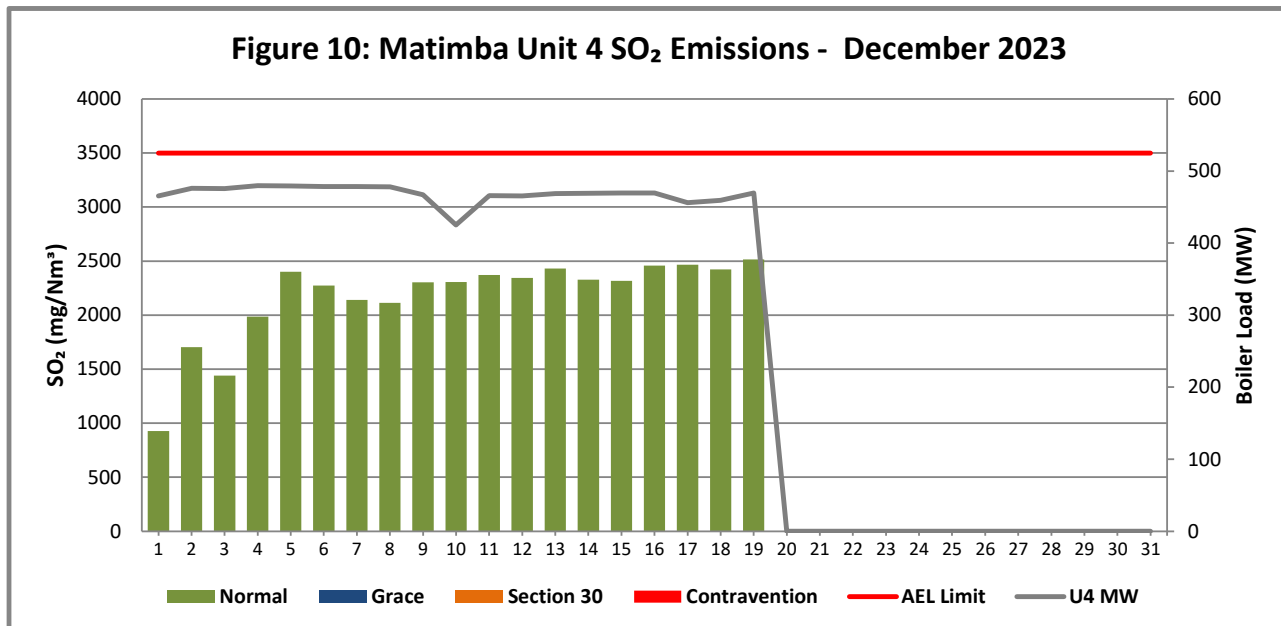


Figure 8: SO₂ daily average emissions against emission limit for unit 4 for the month of December 2023

Interpretation:

All daily averages below SO₂ emission monthly limit of 3500 mg/Nm³.

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Unit 5 SO₂ Emissions

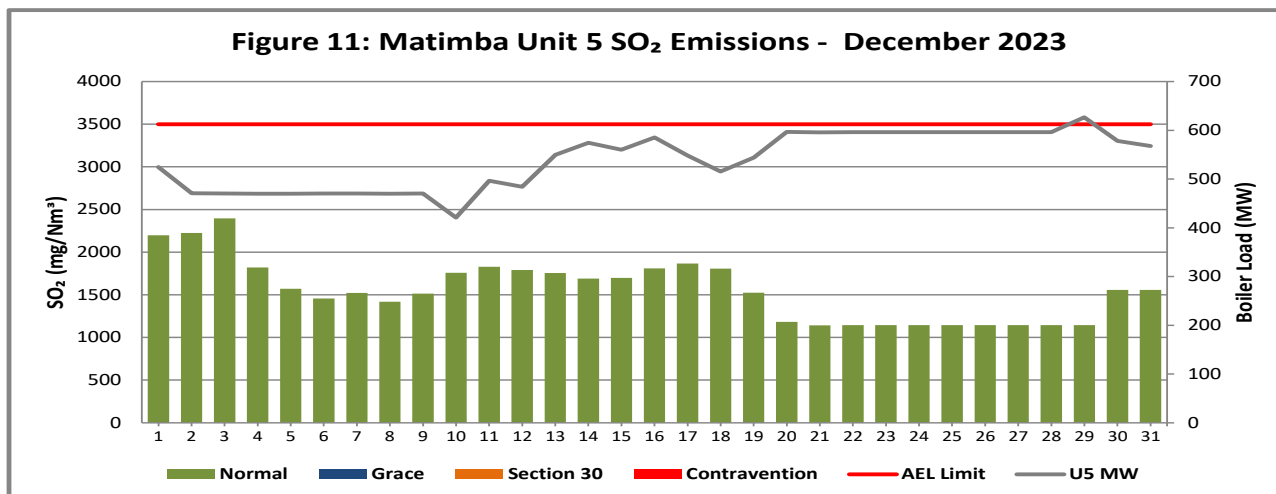


Figure 9: SO₂ daily average emissions against emission limit for unit 5 for the month of December 2023

Interpretation:

All daily averages below SO₂ emission monthly limit of 3500 mg/Nm³.

Unit 6 SO₂ Emissions

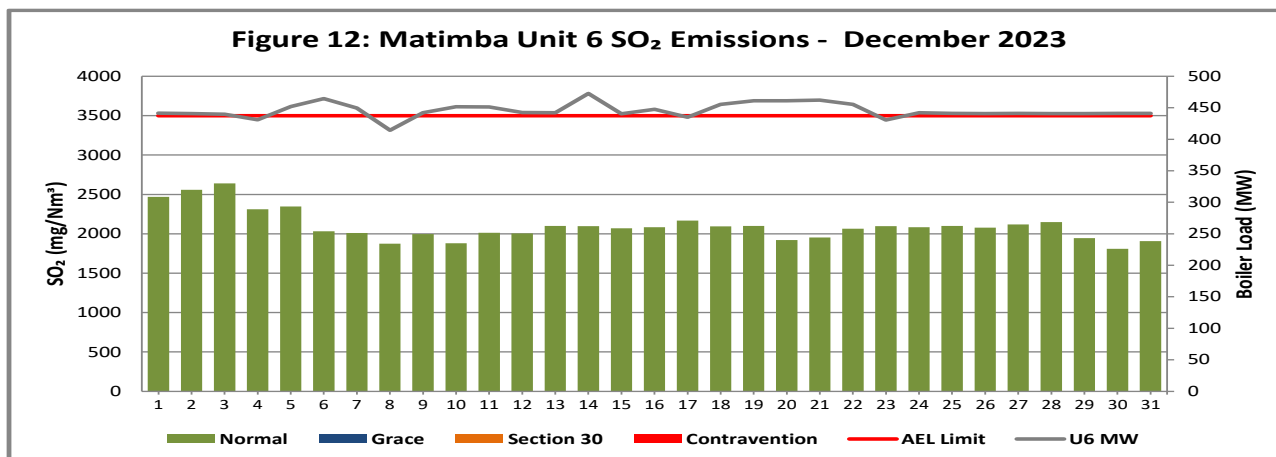


Figure 10: SO₂ daily average emissions against emission limit for unit 6 for the month of December 2023

Interpretation:

All daily averages remained below SO₂ emission monthly limit of 3500 mg/Nm³.

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Unit 1 NO_x Emissions

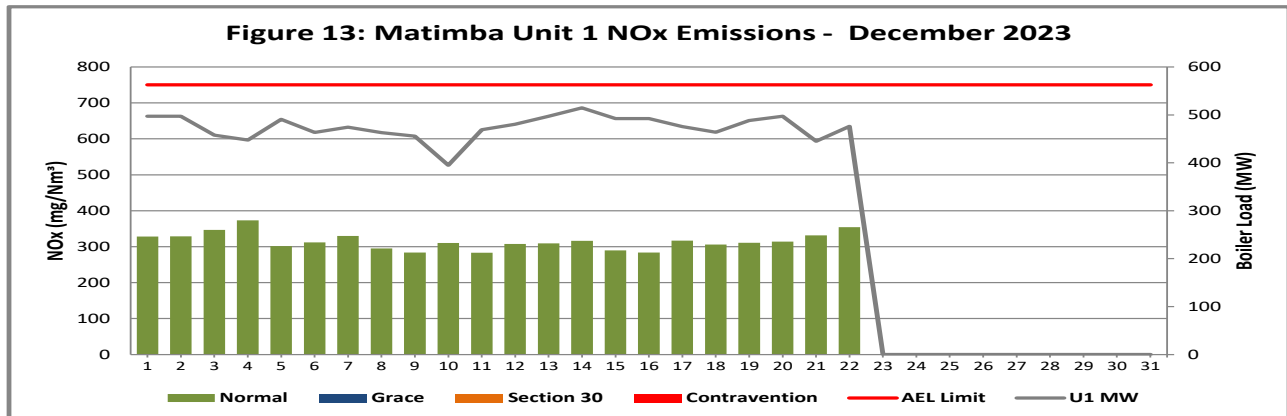


Figure 11: NO_x daily average emissions against emission limit for unit 1 for the month of December 2023

Interpretation:

All daily averages below NO_x emission limit of 750 mg/Nm³.

Unit 2 NO_x Emissions

Unit 2 off load

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Unit 3 NO_x Emissions

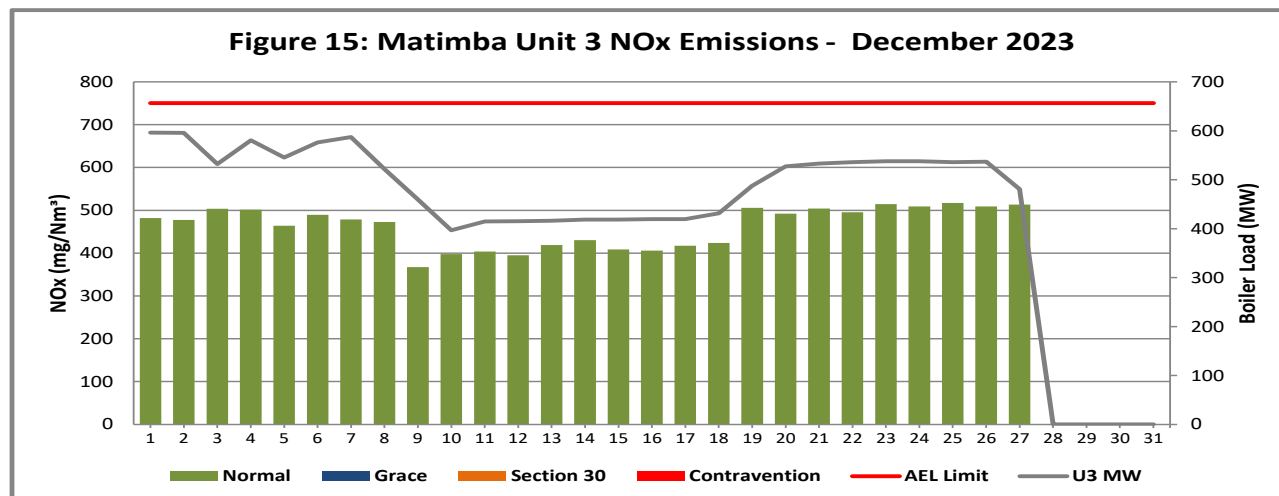


Figure 12: NO_x daily average emissions against emission limit for unit 3 for the month of December 2023

Interpretation:

All daily averages below NO_x emission limit of 750 mg/Nm³.

Unit 4 NO_x Emissions

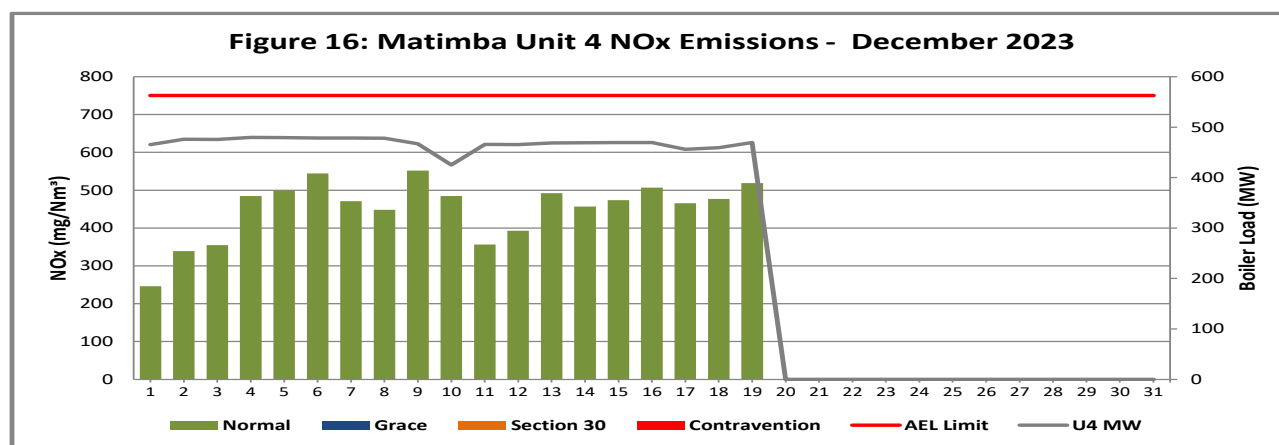


Figure 13: NO_x daily average emissions against emission limit for unit 4 for the month of December 2023

Interpretation:

All daily averages below NO_x emission limit of 750 mg/Nm³.

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Unit 5 NO_x Emissions

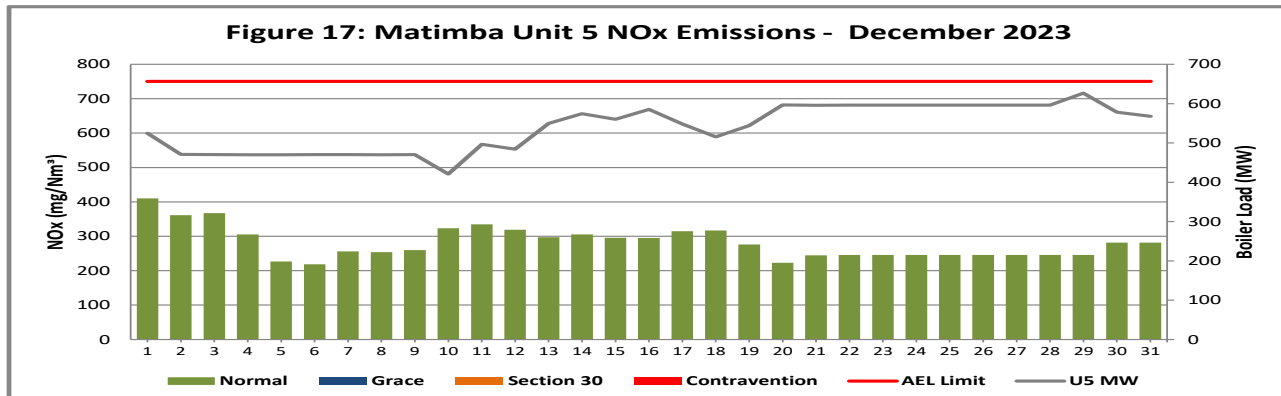


Figure 14: NO_x daily average emissions against emission limit for unit 5 for the month of December 2023

Interpretation:

All daily averages below NO_x emission limit of 750 mg/Nm³.

Unit 6 NO_x Emissions

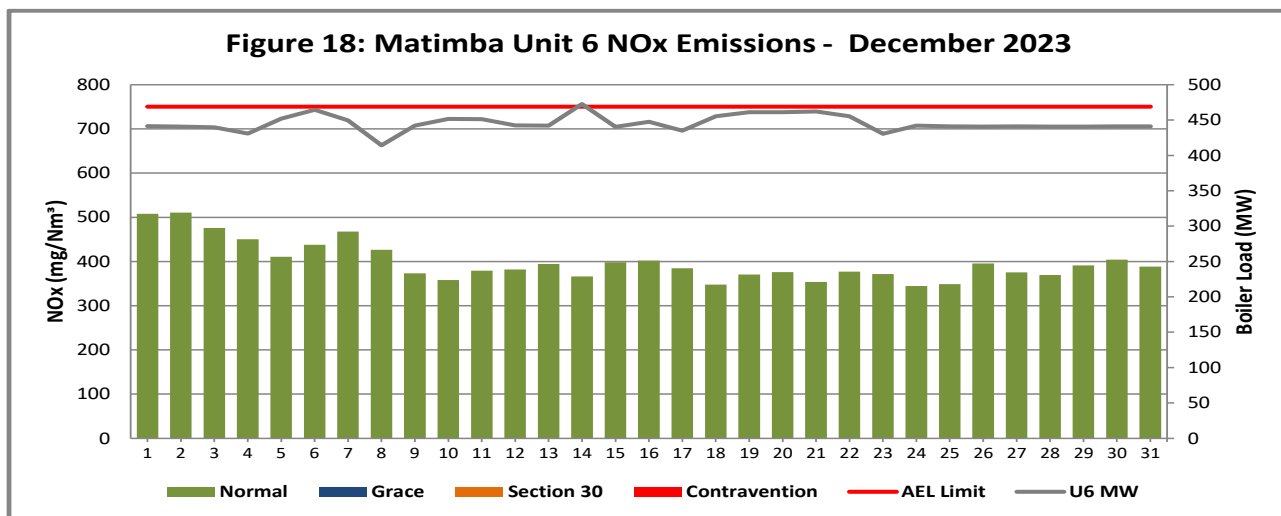


Figure 15: NO_x daily average emissions against emission limit for unit 6 for the month of December 2023

Interpretation:

All daily averages below NO_x emission limit of 750 mg/Nm³.


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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:	Thursday, 25 January 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	
<p align="center">MONTHLY INPUT DATA FOR THE STATION</p> <p align="center">Please only insert relevant monthly data inputs into the blue cells below</p> <p align="center">Choose from a dropdown menu in the green cells</p> <p align="center">The total VOC emissions for the month are in the red cells</p> <p align="center">IMPORTANT: Do not change any other cells without consulting the AQ CoE</p>		
MONTH:	December	
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:	1075.537	
Molecular weight of the fuel oil:	166.00	Lb/lb-mole
METEROLOGICAL DATA FOR THE MONTH	Data	Unit
Daily average ambient temperature	27.35	°C
Daily maximum ambient temperature	33.26	°C
Daily minimum ambient temperature	21.97	°C
Daily ambient temperature range	11.30	°C
Daily total insolation factor	6.12	kWh/m²/day
Tank paint colour	Grey/medium	NA
Tank paint solar absorbance	0.68	NA
FINAL OUTPUT:	Result	Unit
Breathing losses:	0.57 kg/month	
Working losses:	0.03 kg/month	
TOTAL LOSSES (Total TVOC Emissions for the month):	0.60 kg/month	
<p>*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.</p>		

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2.3.4 Greenhouse gas (CO₂) emissions

CO₂ 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 December 2023

Date	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
2023/12/01	10930.1	0	12988.1	10003.9	11272.2	9503.09
2023/12/02	10912.2	0	12980.2	10249.1	10037.9	9486.34
2023/12/03	10030.6	0	11556.2	10272.7	10019	9456.52
2023/12/04	9759.47	0	12638.6	10355.8	10005.8	9247.26
2023/12/05	10773.2	0	11841.3	10343.5	9999.49	9710.77
2023/12/06	10153	0	12508.1	10332	10039.7	9998.15
2023/12/07	10397.5	0	12786.5	10318.9	10025.9	9662.79
2023/12/08	10149.6	0	11355.7	10317.8	10023	8893.45
2023/12/09	10009.3	0	9963.28	10074.9	10025.8	9497.7
2023/12/10	8609.96	0	8602.2	9183.42	8984.39	9751.11
2023/12/11	10276.1	0	9005.42	10063.2	10577.7	9769
2023/12/12	10540.7	0	8977.82	10091.2	10305.8	9549
2023/12/13	10918.4	0	8976.12	10159.4	11760.1	9513.49
2023/12/14	11323.2	0	9061.05	10131.5	12320.1	10245
2023/12/15	10816.5	0	9024.18	10177.1	12008.7	9518.72
2023/12/16	10805.5	0	9038.94	10187.9	12557.2	9585.4
2023/12/17	10423.5	0	9081.54	9874.65	11791.2	9360.57
2023/12/18	10166.6	0	9302.11	9916.94	11005	9820.87
2023/12/19	10706.3	0	10545.7	7546.84	11606.9	9928.98
2023/12/20	10920.7	0	11415.8	0	12812.3	9932.64
2023/12/21	9732.14	0	11491.4	0	4428.95	9962.09
2023/12/22	5405.82	0	11482	0	0	9811.37
2023/12/23	0	0	11559.2	0	0	9248.87
2023/12/24	0	0	11563.8	0	0	9516.19
2023/12/25	0	0	11529.7	0	0	9501.22
2023/12/26	0	0	11566.8	0	3384.33	9534.96
2023/12/27	0	0	9984.22	0	11375.2	9547.43
2023/12/28	0	0	0	0	14063.9	9525.39
2023/12/29	0	0	0	0	13979.4	9525.87
2023/12/30	0	0	0	0	12554.9	9528.15
2023/12/31	0	0	0	0	12310.9	9515.37

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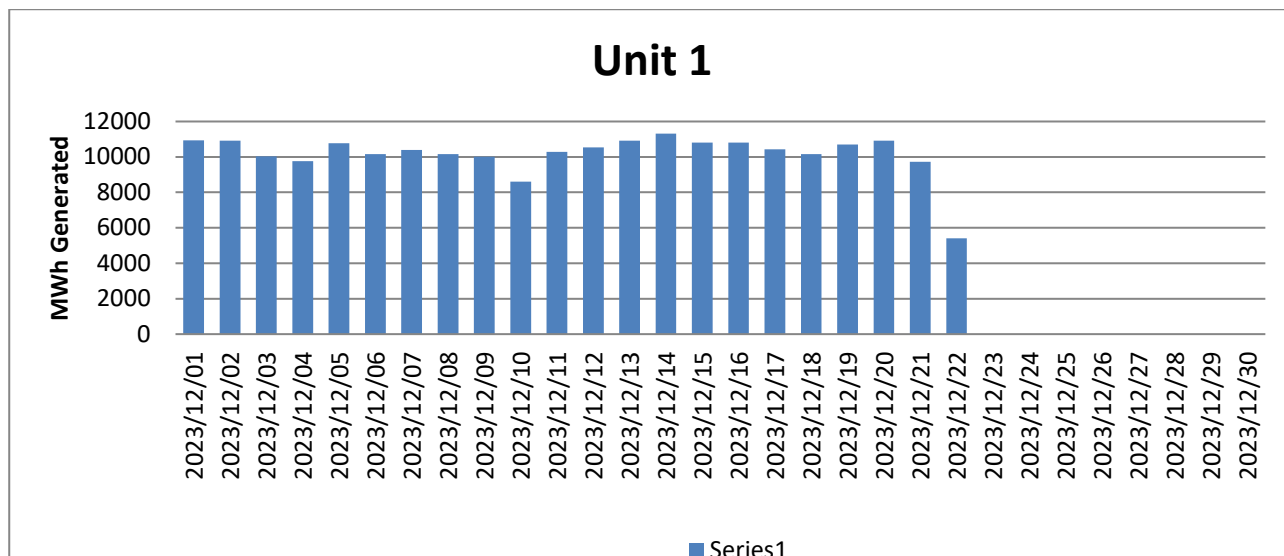


Figure 16: Unit 1 daily generated power in MWh for the month of December 2023

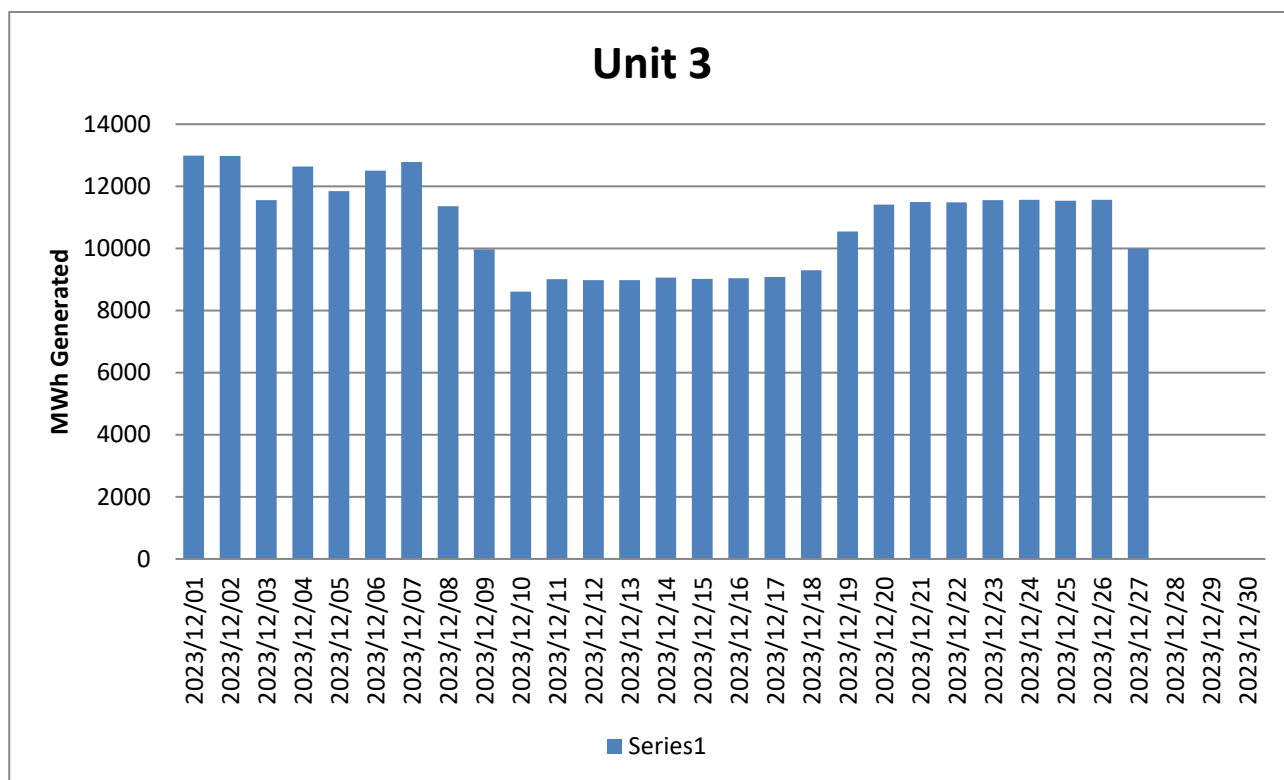


Figure 17: Unit 3 daily generated power in MWh for the month of December 2023

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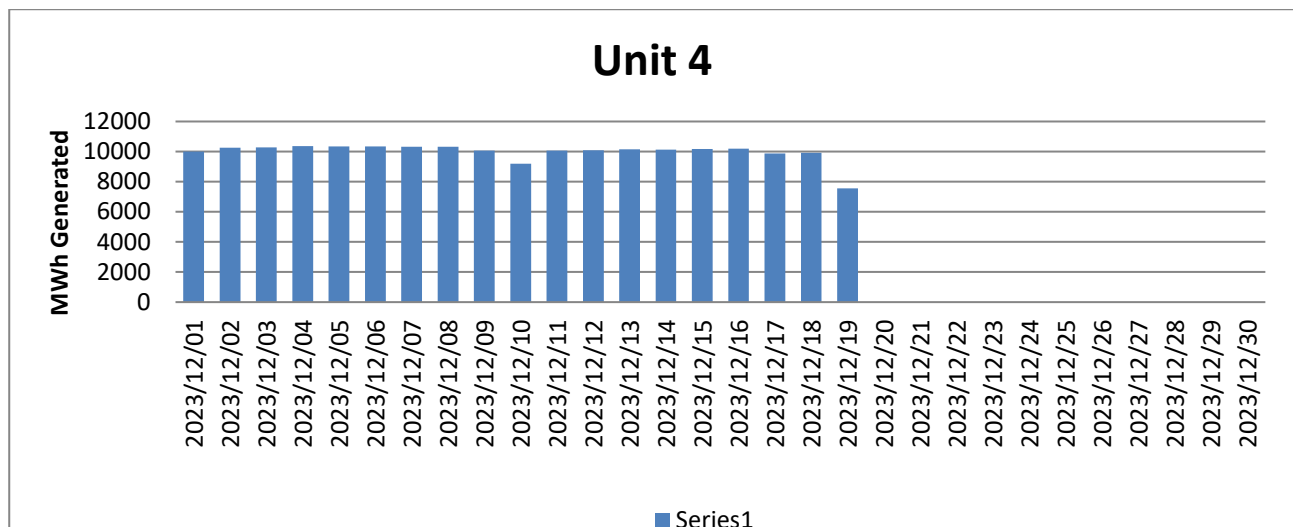


Figure 18: Unit 4 daily generated power in MWh for the month of December 2023

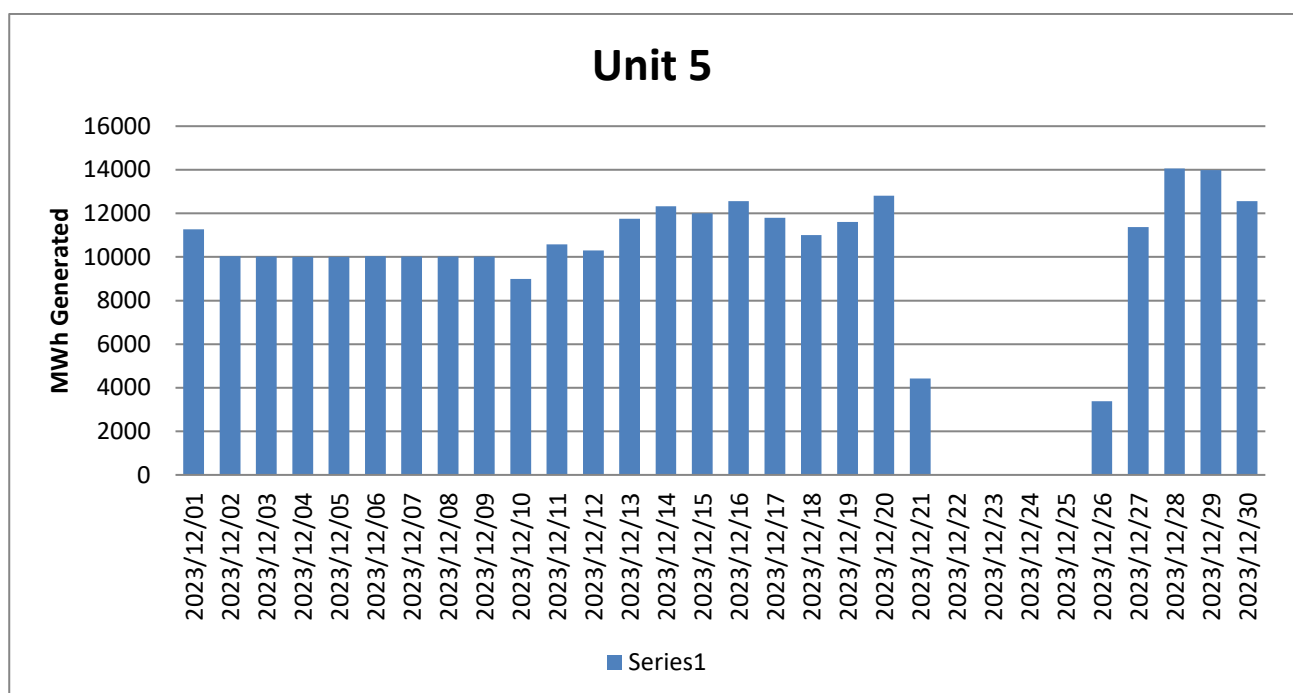


Figure 19: Unit 5 daily generated power in MWh for the month of December 2023

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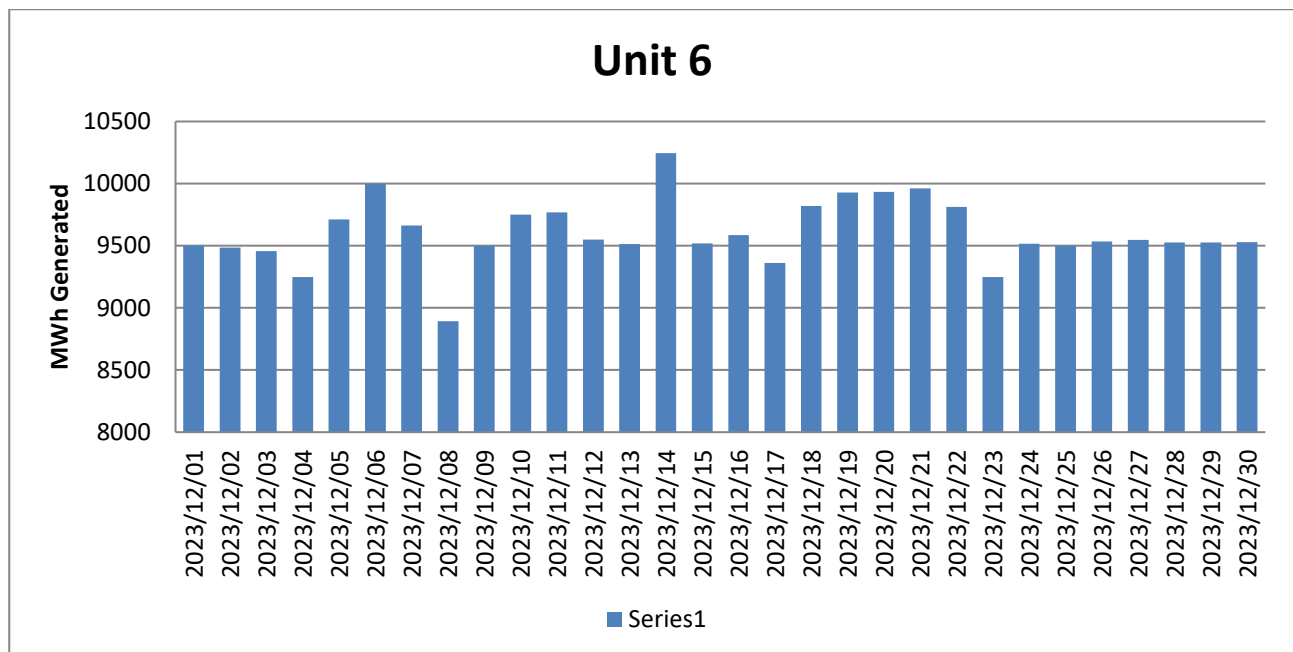


Figure 20: Unit 6 daily generated power in MWh for the month of December 2023

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2.5 Pollutant Tonnages

The emitted pollutant tonnages for December 2023 are provided in table 6.

Table 6: Pollutant tonnages for the month of December 2023

Associated Unit/Stack	PM (tons)	SO ₂ (tons)	NO _x (tons)
Unit 1	66.6	3 926.0	461.7
Unit 2	Off	Off	Off
Unit 3	65.1	4 722.7	887.8
Unit 4	119.6	2 621.6	544.0
Unit 5	158.2	3 258.8	598.7
Unit 6	42.8	3 086.8	584.7
SUM	452.4	17 615.9	3 076.9

2.6 Operating days in compliance to PM AEL Limit

Table 7: Operating days in compliance with PM AEL limit of December 2023

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average PM (mg/Nm ³)
Unit 1	19	3	0	0	3	45.7
Unit 2	Off	Off	Off	Off	Off	Off
Unit 3	25	2	0	0	2	32.7
Unit 4	0	0	0	19	19	98.5
Unit 5	0	0	0	31	31	74.5
Unit 6	0	0	0	31	31	29.1
SUM	44	5	0	81	86	

2.7 Operating days in compliance to SO_x AEL Limit

Table 8: Operating days in compliance with SO_x AEL limit of December 2023

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average SO ₂ (mg/Nm ³)
Unit 1	22	0	0	0	0	2 669.3
Unit 2	Off	Off	Off	Off	Off	Off
Unit 3	27	0	0	0	0	2 491.3
Unit 4	19	0	0	0	0	2 171.1
Unit 5	31	0	0	0	0	1 556.4
Unit 6	31	0	0	0	0	2 099.2
SUM	130	0	0	0	0	

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2.8 Operating days in compliance to NOx AEL Limit

Table 9: Operating days in compliance with NOx AEL limit of December 2023

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average NOx (mg/Nm³)
Unit 1	22	0	0	0	0	315.1
Unit 2	Off	Off	Off	Off	Off	Off
Unit 3	27	0	0	0	0	462.9
Unit 4	19	0	0	0	0	450.7
Unit 5	31	0	0	0	0	281.8
Unit 6	31	0	0	0	0	398.1
SUM	130	0	0	0	0	

2.9 Reference values

Table 10: Reference values for data provided, December 2023

Compound / Parameter	Units of Measure	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Oxygen	%	6.48	Off	7.64	6.91	6.23	10.77
Moisture	%	4.24	Off	3.76	3.27	4.14	2.04
Velocity	m/s	23.8	Off	26.5	22.6	23.1	25.3
Temperature	°C	137.9	Off	132.1	127.4	126.8	162.0
Pressure	mBar	923.6	Off	917.0	928.4	941.6	908.4

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 December 2023 are provided in table 6.

Table 11: Average percentage (%) availability of monitors for the month of December 2023.

Associated Unit/Stack	PM	SO ₂	NO
Unit 1	100.0	100.0	100.0
Unit 2	Off	Off	Off
Unit 3	100.0	100.0	100.0
Unit 4	100.0	85.5	84.9
Unit 5	100.0	90.3	89.5
Unit 6	99.5	100.0	100.0

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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

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

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

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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	NO _x	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, SO₂ and NO_x 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, SO₂ and NO_x (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	NO _x	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

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6	Dates in table 12 above	2023/08/05 15:52	2023/08/05 15:52	2023/08/05 15:52
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Note: The CEMS Spot verification tests for PM, SO₂ and NO_x 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	5	
Fires in	2023/12/26	05h32
Synchronization with Grid	2023/12/26	15h33
Emissions below limit	2023/12/28	09h01
Fires in, to synchronization	10.1	HOURS
Synchronization to < Emission limit	41,28	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	744	744	744	744	744	744
Days over the Limit during Emergency Generation	1	Off	5	19	12	2

During the period under review all Units were on emergency generation in force from 01 December 2023 until 31 December 2023.

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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

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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

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

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.

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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. S23° 40' 2.8" E027° 36' 34.8" 175m from ground level and 75m from the top.
 - b. Gas:
 - i. S23° 40' 2.8" E027° 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. S23° 40' 14.8" E027° 36' 47.5" 175m from ground level and 75m from the top.
 - b. Gas:
 - i. S23° 40' 14.8" E027° 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

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