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|  | <b>Technical and Generic Report</b> | <b>Matimba Power Station</b> |
|---|-------------------------------------|------------------------------|

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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 February 2024. The information recorded in the report is obtained from Matimba Emission Reporting tool V02.2024VF.



During the period under review, Matimba experienced eighty (80) exceedances of the daily particulate matter emission limit (50mg/Nm<sup>3</sup>), sixty-nine (69) 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 SO<sub>x</sub> limit (3500mg/Nm<sup>3</sup>) and the daily NO<sub>x</sub> emission limit (750mg/Nm<sup>3</sup>) 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 February 2024. Defects were addressed and plants returned to service.

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  | 718 696          |
|                                 | Fuel Oil                 | Tons/month | 1 200  | 2165.626         |
| Production Rates                | Product/ By-Product Name | Unit       | Maximum Production Capacity Permitted (Quantity) | Production Rate  |
|                                 | Energy                   | MW         | 4000   | 1772.309         |
|                                 |                          |            |  |                  |

The consumption rates for fuel oil for the month of February 2024 exceeded the permitted maximum limits due to multiple unit 2 light 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%                    | 99.998%                |
| Unit 4          | Electrostatic Precipitator | 100%                    | Off                    |
| Unit 5          | Electrostatic Precipitator | 100%                    | 99.998%                |
| Unit 6          | Electrostatic Precipitator | 100%                    | 99.997%                |
| Associated Unit | Technology Type            | Minimum utilisation (%) | Actual Utilisation (%) |
| Unit 1          | SO <sub>3</sub> Plant      | 100%                    | 87%                    |
| Unit 2          | SO <sub>3</sub> Plant      | 100%                    | 0%                     |
| Unit 3          | SO <sub>3</sub> Plant      | 100%                    | 98%                    |
| Unit 4          | SO <sub>3</sub> Plant      | 100%                    | 0%                     |
| Unit 5          | SO <sub>3</sub> Plant      | 100%                    | 94%                    |
| Unit 6          | SO <sub>3</sub> Plant      | 100%                    | 90%                    |

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 February 2024. 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%                    | 1.33%                   |
|             | Ash Content     | 40%                     | 34.17%                  |

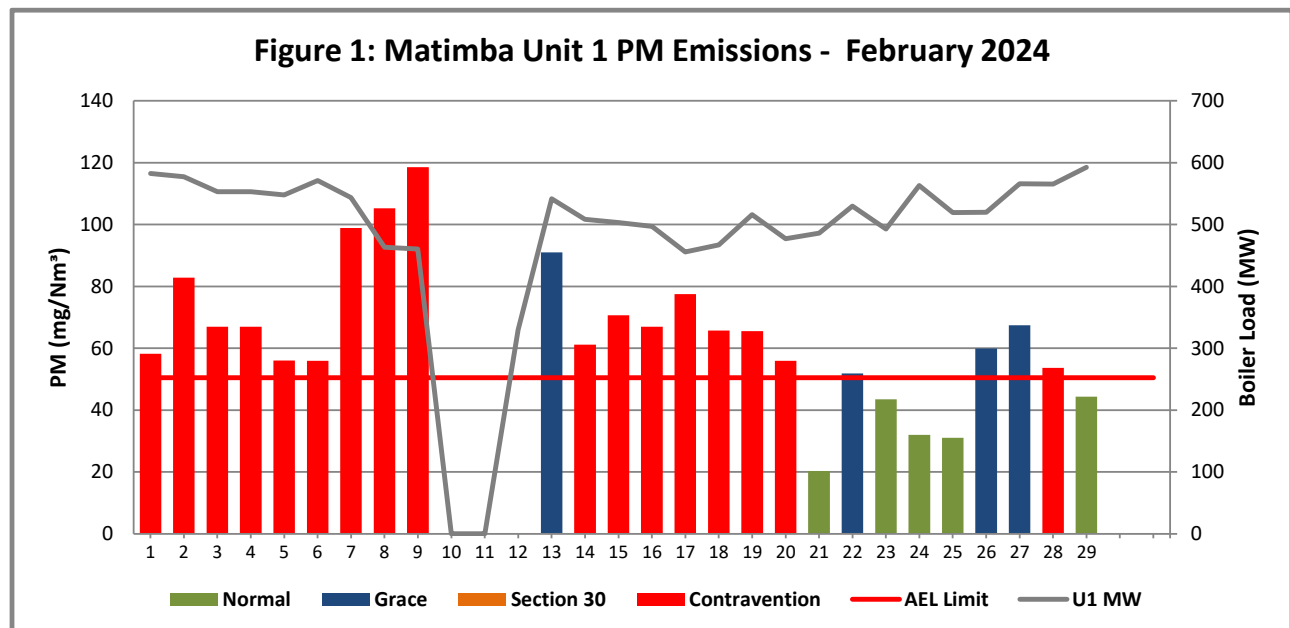
Energy source characteristics remained within the ranges stipulated in the license.

## 2.3 Emissions reporting

### Particulate Matter Emissions

The emission monitors Correlation spot test were performed in August 2023 and the results were applied and used for gaseous emissions calculation for February 2024. The spot test results for PM emissions does not meet 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 February 2024**

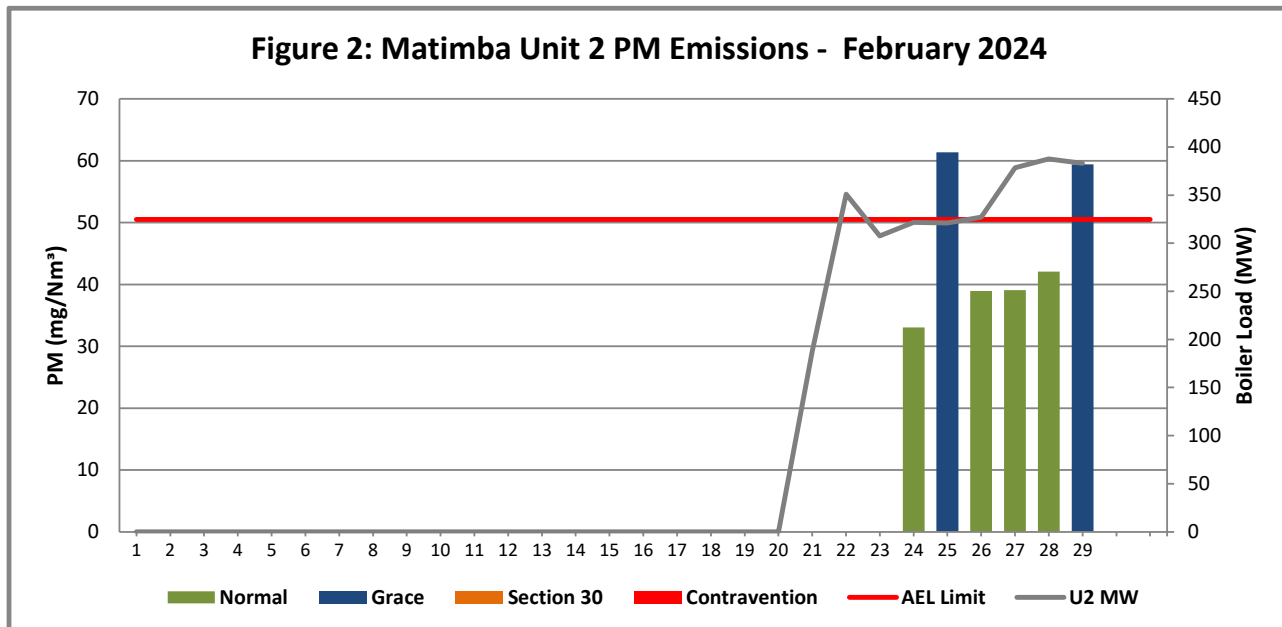
#### Interpretation:

Unit 1 exceeded the daily particulate emission limit of 50mg/Nm<sup>3</sup> on 1 to 9, 13 to 20, 22, 26 to 28 February 2024. The exceedances from 1 to 9, 14 to 20 and 28 February 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).

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**Unit 2 Particulate Emissions**

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

**Interpretation:**

Unit 2 exceeded the daily particulate emission limit of 50mg/Nm<sup>3</sup> on 25 and 29 February 2024. All exceedances occurred within 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).

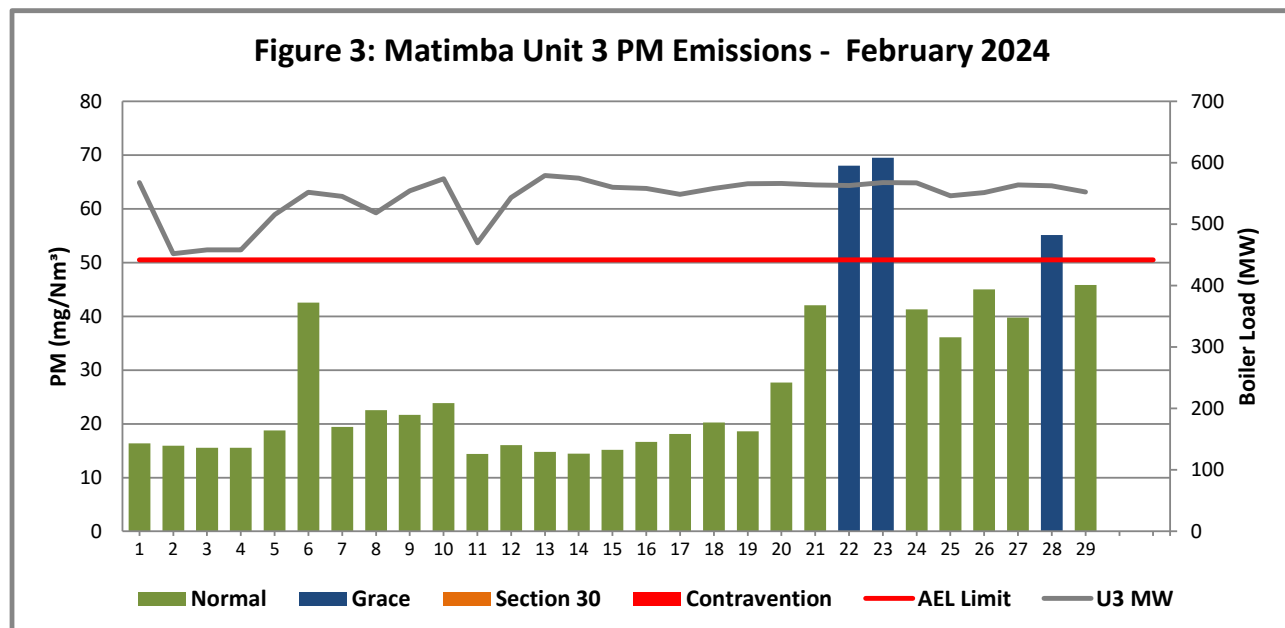
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## Unit 3 Particulate Emissions



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

**Interpretation:**

Unit 3 exceeded the daily particulate emission limit of 50mg/Nm<sup>3</sup> on 22,23 and 28 February 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).

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## **Unit 4 Particulate Emissions**

### **Unit 4 Particulate matter**

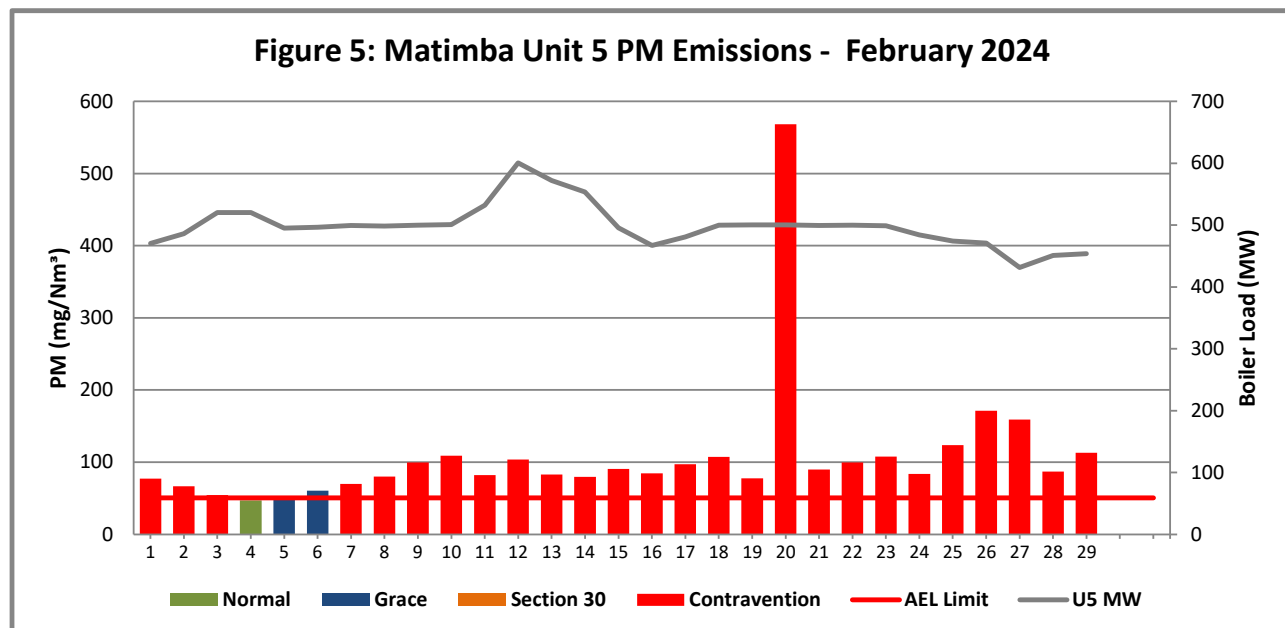
Matimba unit 4 was off for general overall during the reporting period.

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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 February 2024**

**Interpretation:**

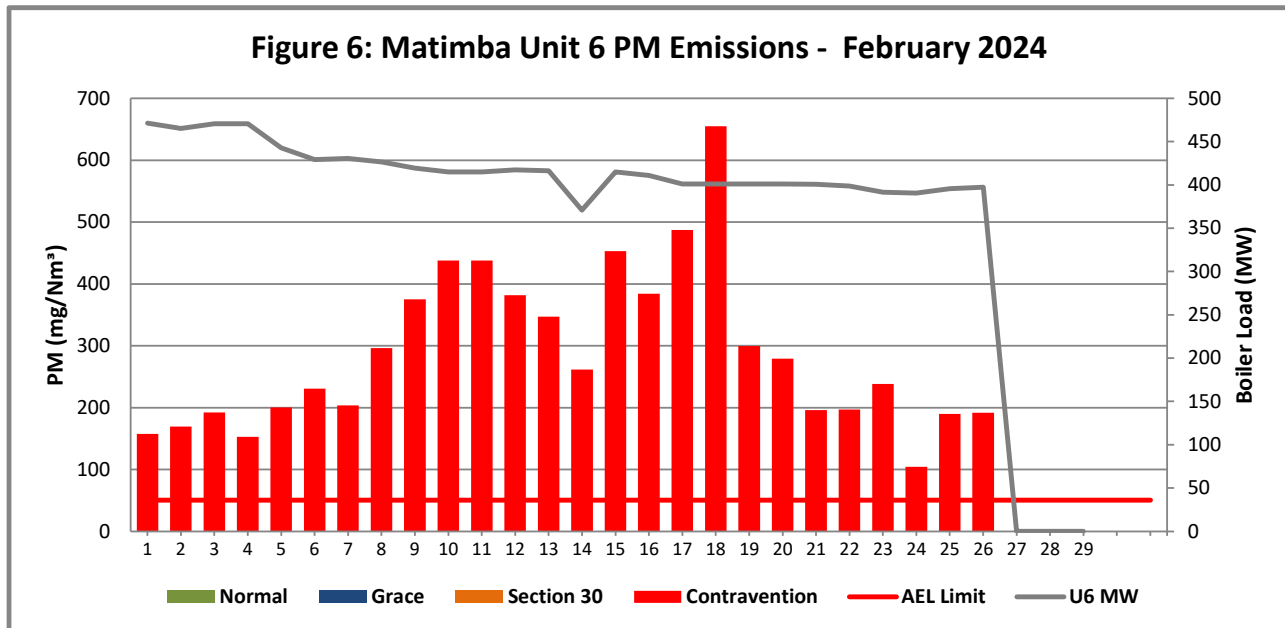
Unit 5 Particulate matter exceeded the daily limit of 50 mg/Nm<sup>3</sup> on 1 to 3 and 5 to 29 February 2024. The exceedances from 1 to 3 and 7 to 29 February 2024 occurred outside of the 48-hour grace period and were recorded on the Eskom incident management process as non-compliance to the Atmospheric Emissions Licence. The exceedances were due to 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 February 2024**

**Interpretation:**

Unit 6 Particulate matter exceeded the daily limit of 50 mg/Nm<sup>3</sup> on 1 to 26 February 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.

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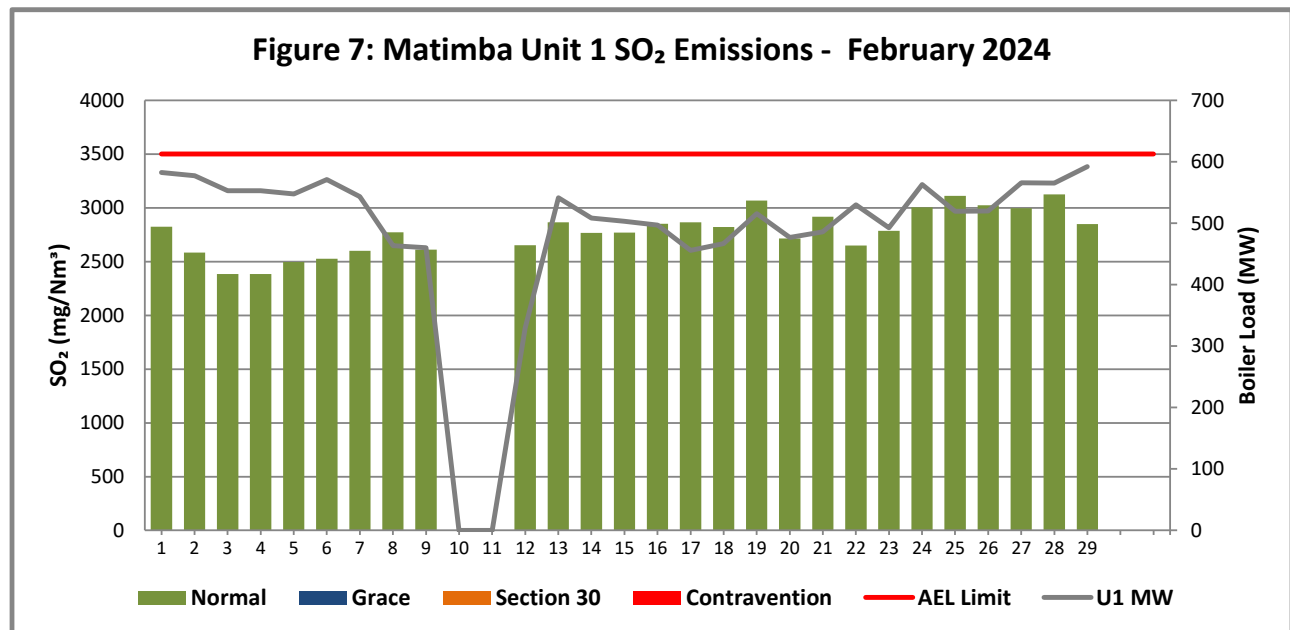
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## Gaseous Emissions

Gaseous emissions analyzers calibration for all 6 units were performed in February 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 February 2024 emission calculation.

### Unit 1 SO<sub>2</sub> Emissions



**Figure 6: SO<sub>2</sub> daily average emissions against emission limit for unit 1 for the month of February 2024**

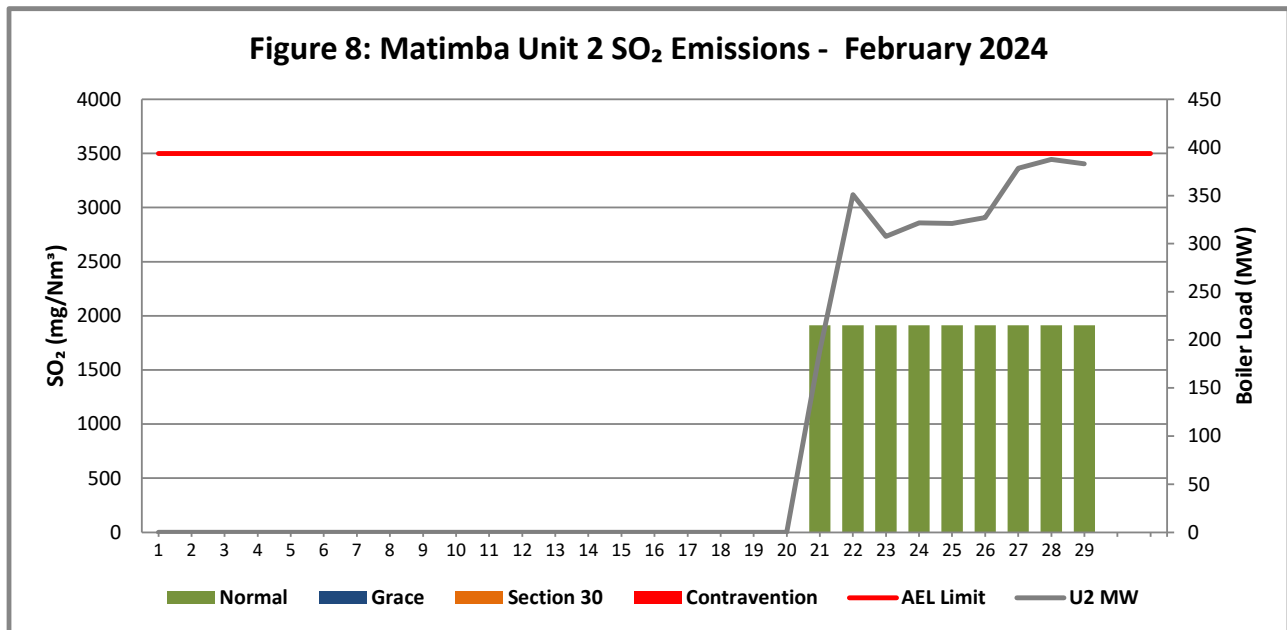
### Interpretation:

All daily averages below SO<sub>2</sub> emission monthly limit of 3500 mg/Nm<sup>3</sup>.

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Unit 2 SO<sub>2</sub> Emissions

**Figure 7: SO<sub>2</sub> daily average emissions against emission limit for unit 2 for the month of February 2024**

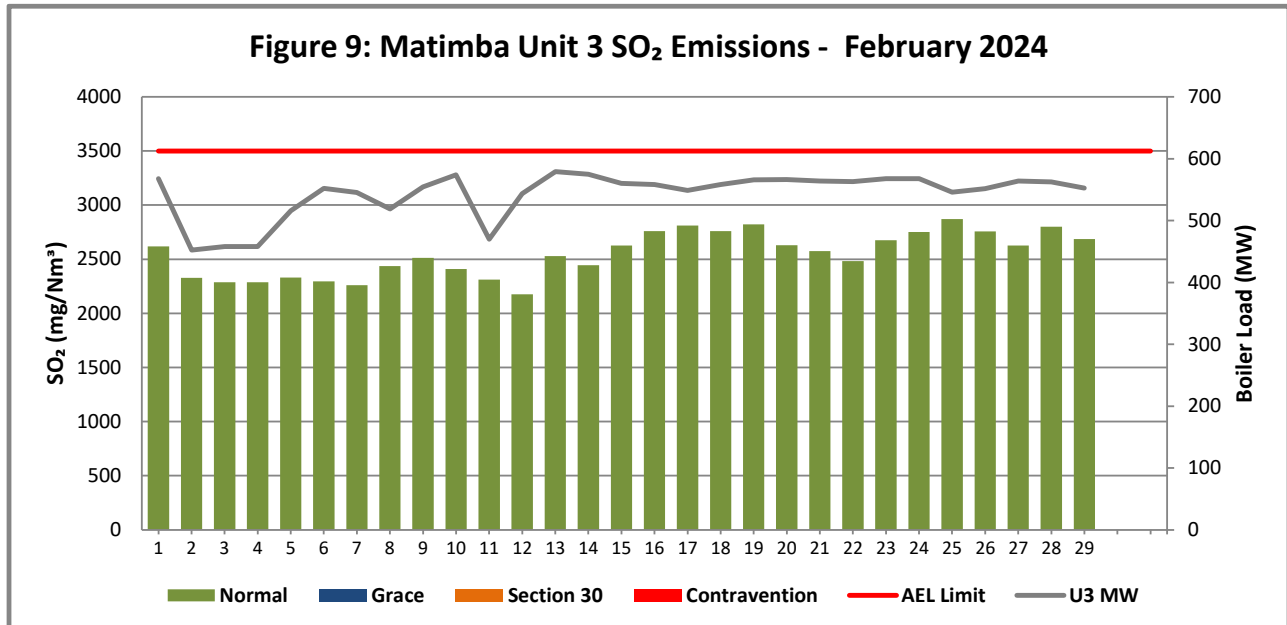
**Interpretation:**

All daily averages below SO<sub>2</sub> emission monthly limit of 3500 mg/Nm<sup>3</sup>.

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Unit 3 SO<sub>2</sub> Emissions

**Figure 8: SO<sub>2</sub> daily average emissions against emission limit for unit 3 for the month of February 2024**

**Interpretation:**

All daily averages below SO<sub>2</sub> emission monthly limit of 3500 mg/Nm<sup>3</sup>.

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## Unit 4 SO<sub>2</sub> Emissions

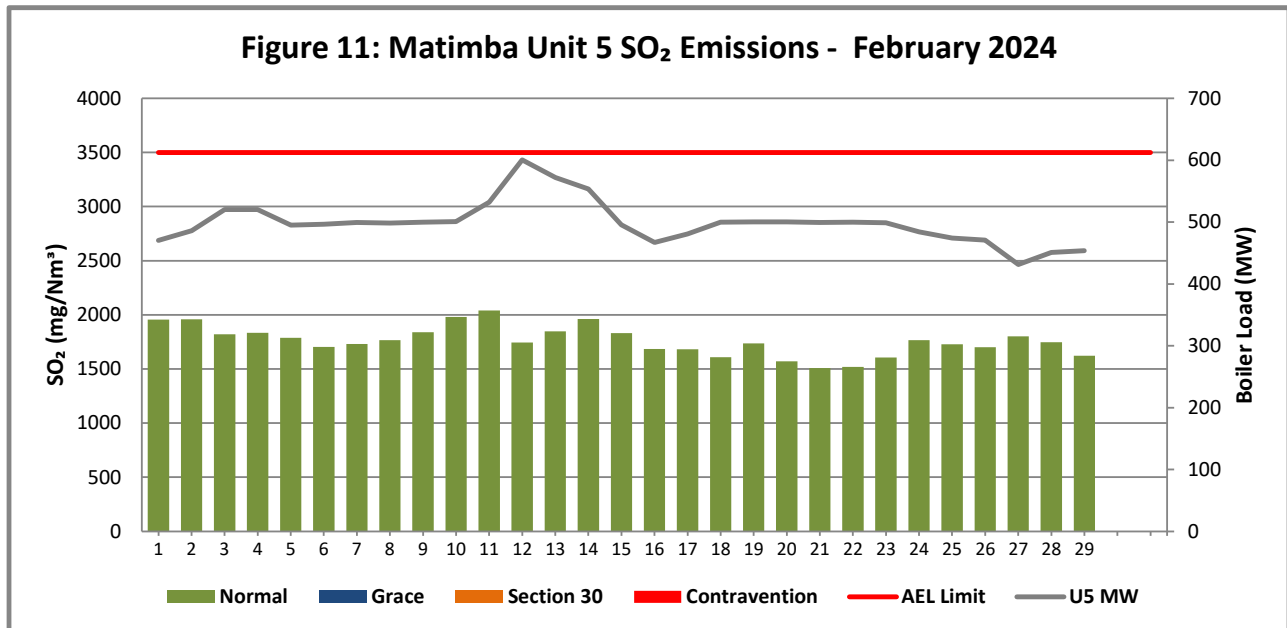
Matimba unit 4 was off for general overall during the reporting period.

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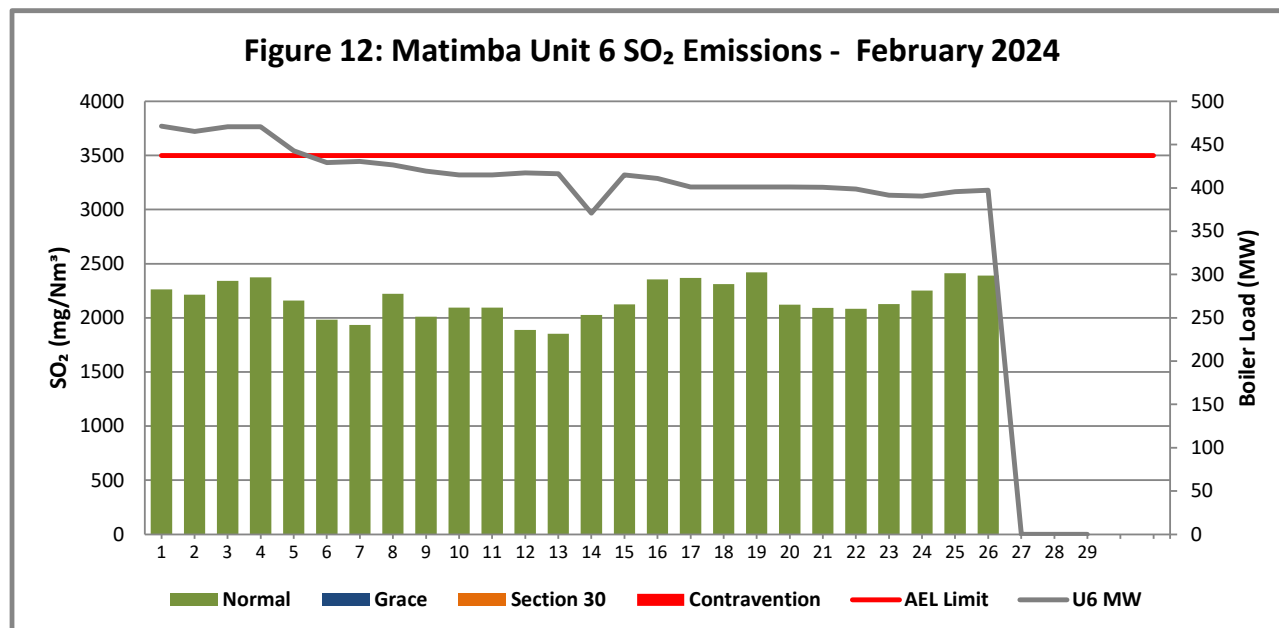
**Unit 5 SO<sub>2</sub> Emissions****Figure 9: SO<sub>2</sub> daily average emissions against emission limit for unit 5 for the month of February 2024****Interpretation:**

All daily averages below SO<sub>2</sub> emission monthly limit of 3500 mg/Nm<sup>3</sup>.

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**Unit 6 SO<sub>2</sub> Emissions**

**Figure 10: SO<sub>2</sub> daily average emissions against emission limit for unit 6 for the month of February 2024**

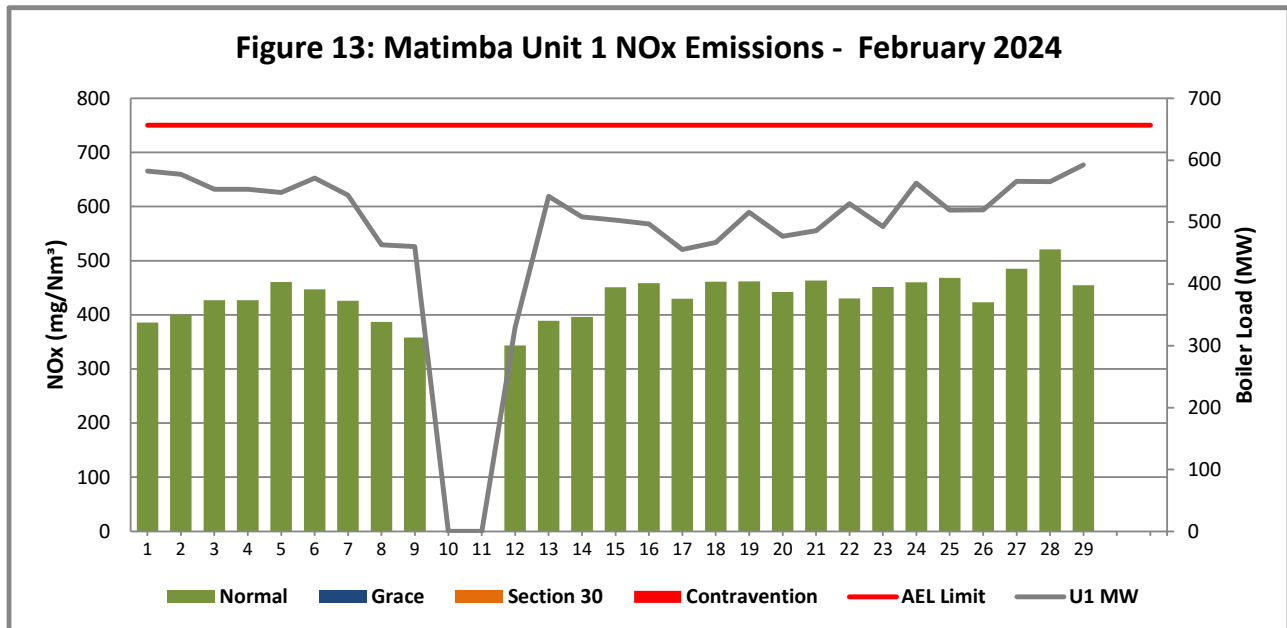
**Interpretation:**

All daily averages remained below SO<sub>2</sub> emission monthly limit of 3500 mg/Nm<sup>3</sup>.

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Unit 1 NO<sub>x</sub> Emissions

**Figure 11: NO<sub>x</sub> daily average emissions against emission limit for unit 1 for the month of February 2024**

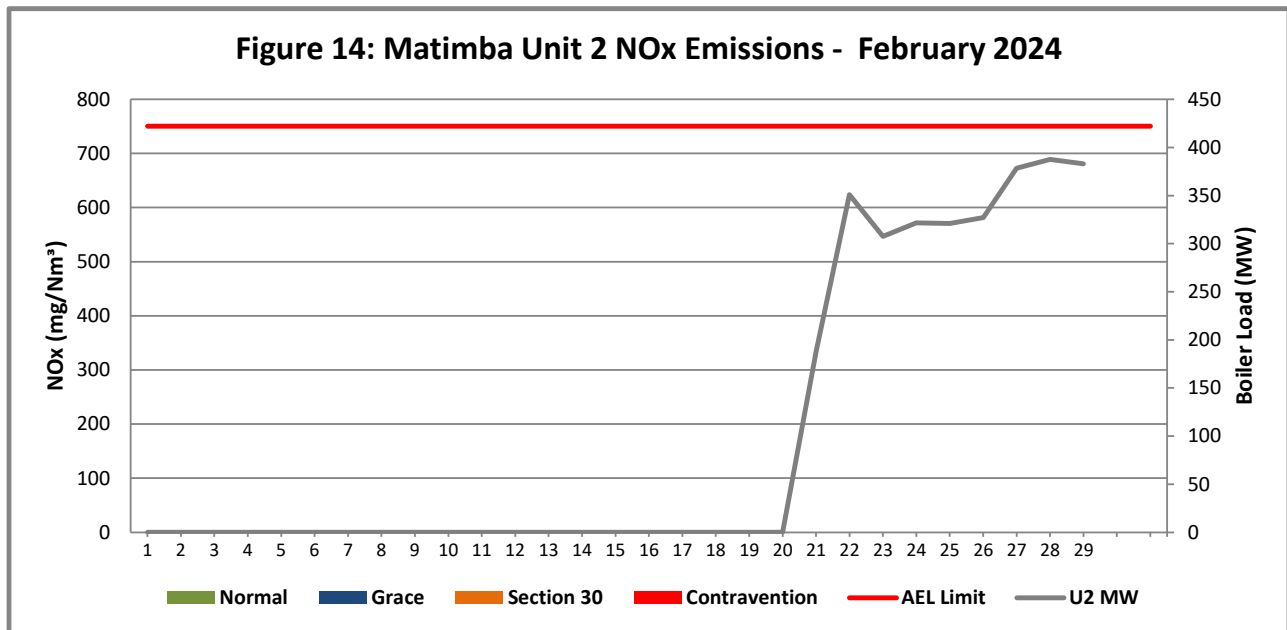
**Interpretation:**

All daily averages below NO<sub>x</sub> emission limit of 750 mg/Nm<sup>3</sup>.

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**Unit 2 NO<sub>x</sub> Emissions**

**Figure 12: NO<sub>x</sub> daily average emissions against emission limit for unit 2 for the month of February 2024**

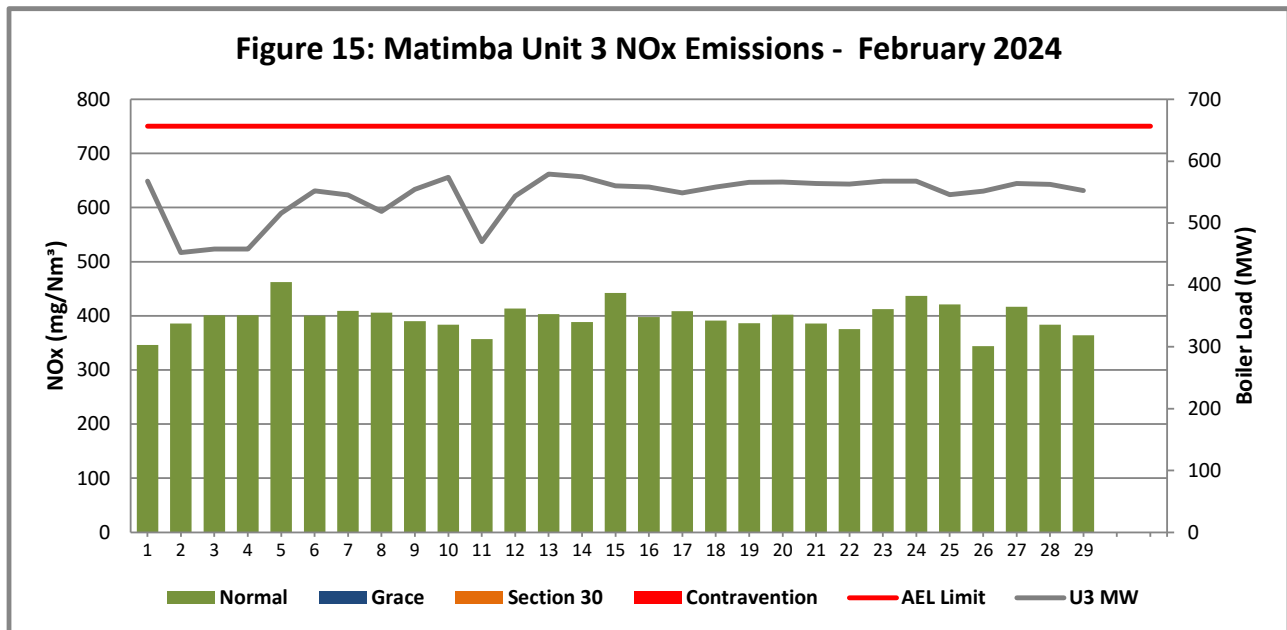
**Interpretation:**

The monitor was faulty after light up.

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Unit 3 NO<sub>x</sub> Emissions

**Figure 13: NO<sub>x</sub> daily average emissions against emission limit for unit 3 for the month of February 2024**

**Interpretation:**

All daily averages below NO<sub>x</sub> emission limit of 750 mg/Nm<sup>3</sup>.

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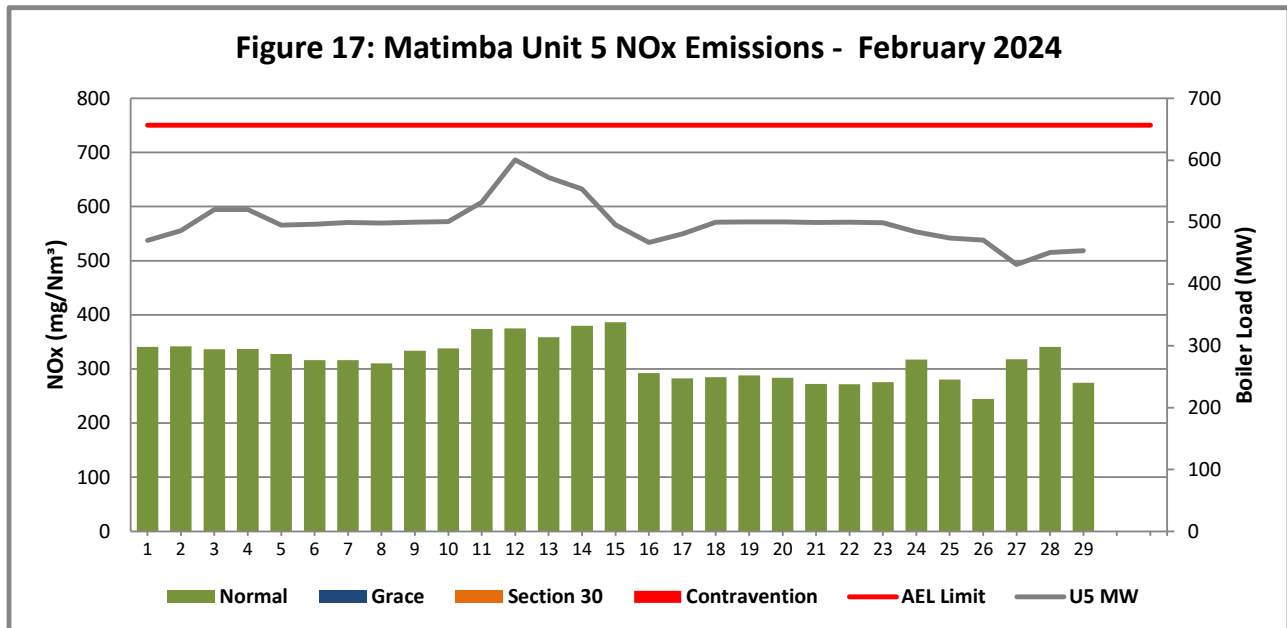
#### **Unit 4 NO<sub>x</sub> Emissions**

Matimba unit 4 was off for general overall during the reporting period.

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Unit 5 NO<sub>x</sub> Emissions

**Figure 14: NO<sub>x</sub> daily average emissions against emission limit for unit 5 for the month of February 2024**

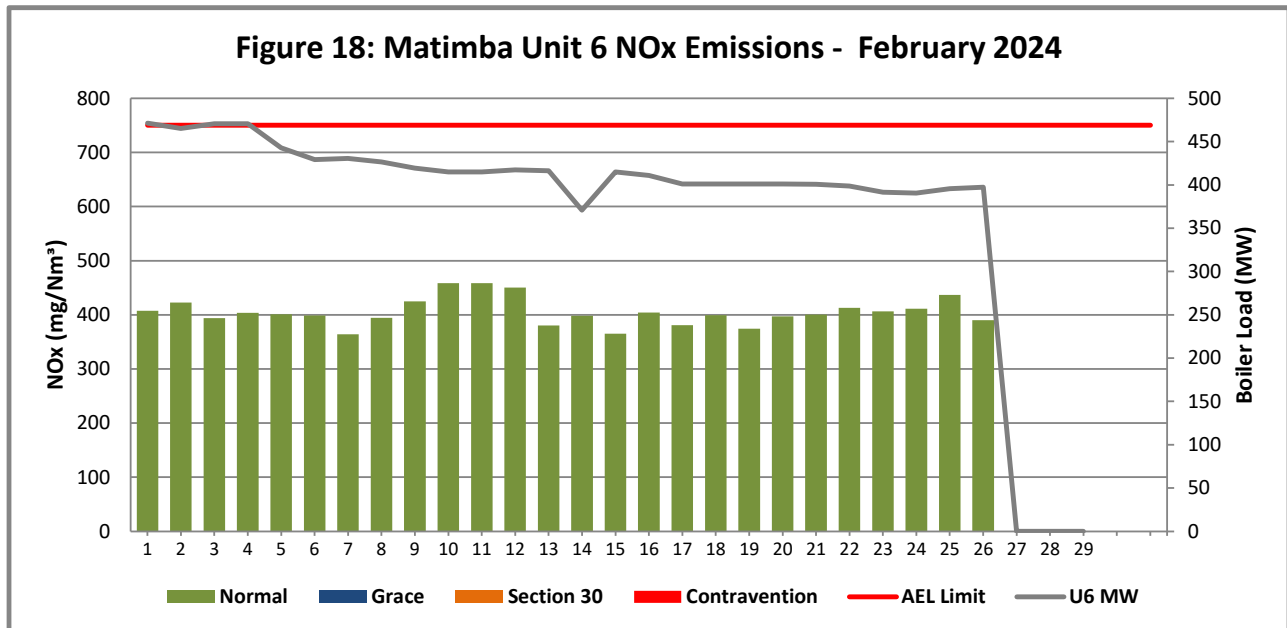
**Interpretation:**

All daily averages below NO<sub>x</sub> emission limit of 750 mg/Nm<sup>3</sup>.

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Unit 6 NO<sub>x</sub> Emissions

**Figure 15: NO<sub>x</sub> daily average emissions against emission limit for unit 6 for the month of February 2024**

**Interpretation:**

All daily averages below NO<sub>x</sub> emission limit of 750 mg/Nm<sup>3</sup>.

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**Total Volatile Organic Compounds****Table 4:** Total volatile compound estimates

| CALCULATION OF EMISSIONS OF TOTAL VOLATILE COMPOUNDS FROM FUEL OIL STORAGE TANKS*  |  |                 |
|--|--|-----------------|
| <b>Date:</b>   | Monday, 18 March 2024                      |                 |
| <b>Station:</b>  | Matimba Power Station                      |                 |
| <b>Province:</b>   | Limpopo Province                           |                 |
| <b>Tank no.</b>  | 1-4  |                 |
| <b>Description:</b>  | Outdoor fuel oil storage tank              |                 |
| <b>Tank Type:</b>  | Vertical fixed roof (vented to atmosphere) |                 |
| <b>Material stored:</b>  | Fuel Oil 150                               |                 |
| <p align="center"><b>MONTHLY INPUT DATA FOR THE STATION</b></p> <p align="center">Please only insert relevant monthly data inputs into the <u>blue cells</u> below</p> <p align="center">Choose from a dropdown menu in the <u>green cells</u></p> <p align="center">The total VOC emissions for the month are in the <u>red cells</u></p> <p align="center">IMPORTANT: Do not change <u>any</u> other cells without consulting the AQ CoE</p> |  |                 |
| <b>MONTH:</b>  | <b>February</b>                            |                 |
| <b>GENERAL INFORMATION:</b>  | <b>Data</b>                                | <b>Unit</b>     |
| 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:   | <b>2165.626</b>                            |                 |
| Molecular weight of the fuel oil:  | 166.00                                     | Lb/lb-mole      |
| <b>METEROLOGICAL DATA FOR THE MONTH</b>  | <b>Data</b>                                | <b>Unit</b>     |
| Daily average ambient temperature  | 26.20                                      | °C              |
| Daily maximum ambient temperature  | 32.94                                      | °C              |
| Daily minimum ambient temperature  | 20.71                                      | °C              |
| Daily ambient temperature range  | 12.24                                      | °C              |
| Daily total insolation factor  | 5.72                                       | kWh/m²/day      |
| Tank paint colour  | <b>Grey/medium</b>                         | NA              |
| Tank paint solar absorbance  | 0.68                                       | NA              |
| <b>FINAL OUTPUT:</b>   | <b>Result</b>                              | <b>Unit</b>     |
| Breathing losses:  | <b>0.57</b>                                | <b>kg/month</b> |
| Working losses:  | <b>0.06</b>                                | <b>kg/month</b> |
| <b>TOTAL LOSSES (Total TVOC Emissions for the month):</b>  | <b>0.63</b>                                | <b>kg/month</b> |
| <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, Trittech 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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## Greenhouse gas (CO<sub>2</sub>) emissions

CO<sub>2</sub> 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.

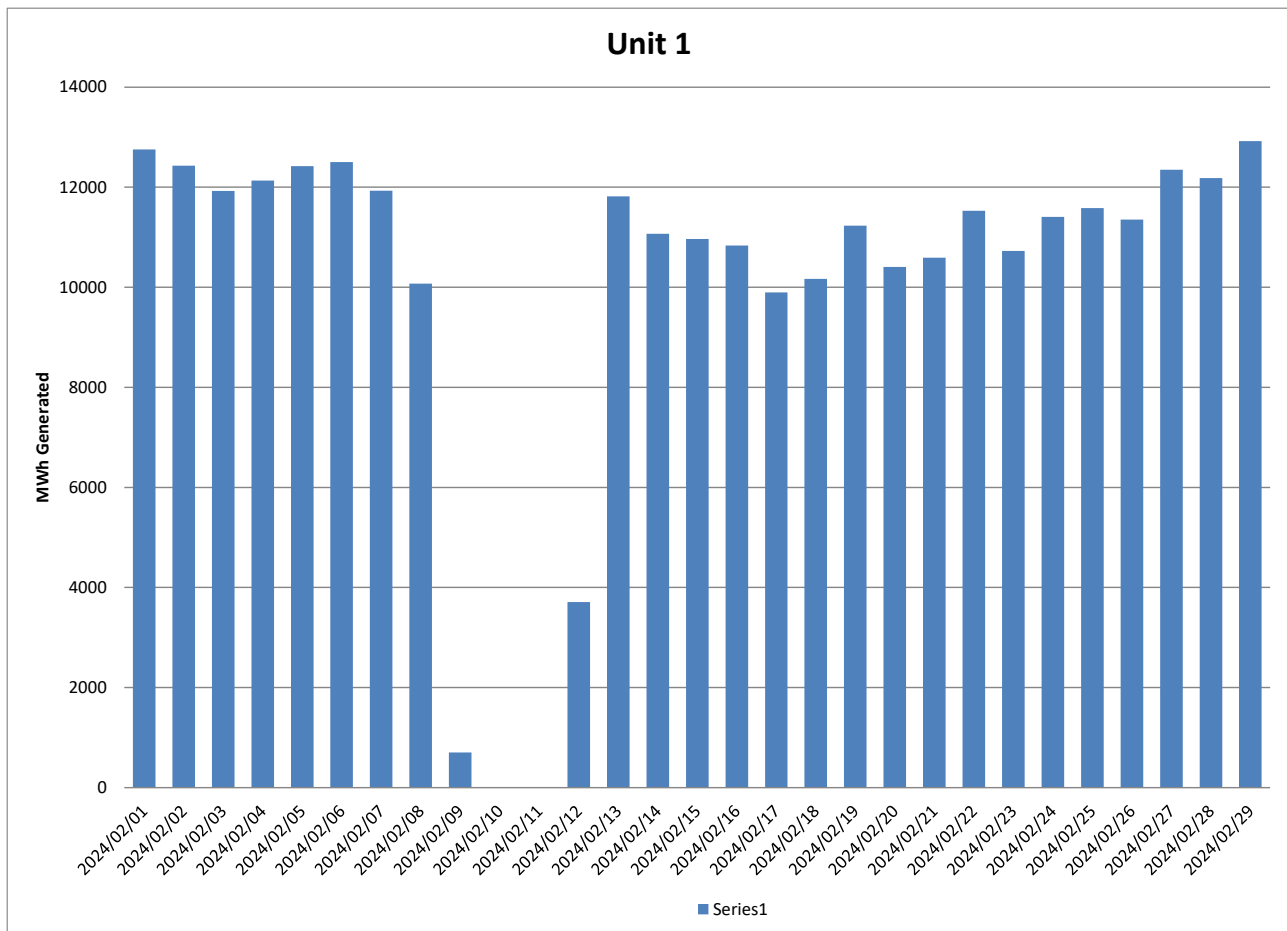
**Table 5:** Daily power generated per unit in MWh for the month of February 2024

| Date       | Unit 1  | Unit 2  | Unit 3  | Unit 4 | Unit 5  | Unit 6  |
|------------|---------|---------|---------|--------|---------|---------|
| 2024/02/01 | 12756.6 |         | 12253.3 |        | 10178.6 | 10166.4 |
| 2024/02/02 | 12429.4 |         | 11217.5 |        | 10502.5 | 10011.2 |
| 2024/02/03 | 11925.4 |         | 12396.1 |        | 11426.2 | 10130.1 |
| 2024/02/04 | 12130.9 |         | 12157.8 |        | 10598.9 | 9951.19 |
| 2024/02/05 | 12419   |         | 11500.4 |        | 10411   | 9456.63 |
| 2024/02/06 | 12500.8 |         | 11858   |        | 10828.3 | 9227.4  |
| 2024/02/07 | 11927.9 |         | 11770.5 |        | 10799.7 | 9256.44 |
| 2024/02/08 | 10071.5 |         | 11385.8 |        | 10783.3 | 9070.89 |
| 2024/02/09 | 704.832 |         | 12421.2 |        | 10821.5 | 8906.98 |
| 2024/02/10 |         |         | 12387.2 |        | 10842.4 | 9076.08 |
| 2024/02/11 |         |         | 10120.8 |        | 11515.1 | 8609.9  |
| 2024/02/12 | 3708.77 |         | 11672.1 |        | 13041.3 | 8916.89 |
| 2024/02/13 | 11815.3 |         | 12486.6 |        | 12451.5 | 8945.92 |
| 2024/02/14 | 11070.8 |         | 12383.1 |        | 11983.8 | 7886.44 |
| 2024/02/15 | 10963.9 |         | 12054.2 |        | 10727.4 | 8915.11 |
| 2024/02/16 | 10835.3 |         | 12002.1 |        | 10130.6 | 8809.11 |
| 2024/02/17 | 9898.57 |         | 11776   |        | 10413.5 | 8581.55 |
| 2024/02/18 | 10165.9 |         | 11959.1 |        | 10828.9 | 8591.59 |
| 2024/02/19 | 11230.1 |         | 12133.4 |        | 10840.5 | 8588.46 |
| 2024/02/20 | 10406.2 |         | 12162.1 |        | 10839.8 | 8586.46 |
| 2024/02/21 | 10590   | 308.204 | 12088.5 |        | 10807   | 8580.2  |
| 2024/02/22 | 11530.2 | 1624.79 | 12073.2 |        | 10827   | 8523.19 |
| 2024/02/23 | 10727.9 | 3861.69 | 12285.2 |        | 10799.5 | 8372.19 |
| 2024/02/24 | 11404.6 | 6807.92 | 12164.2 |        | 10528.2 | 8361.16 |
| 2024/02/25 | 11580.8 | 6782.4  | 11763.1 |        | 10443.9 | 8493.59 |
| 2024/02/26 | 11354.7 | 6956.66 | 11841.1 |        | 10172.1 | 6255.02 |
| 2024/02/27 | 12348.3 | 8168.62 | 12175   |        | 8380.4  |         |
| 2024/02/28 | 12184.1 | 8394.37 | 12157.8 |        | 9759.63 |         |
| 2024/02/29 | 12923.3 | 8325.39 | 11956.8 |        | 9830.33 |         |

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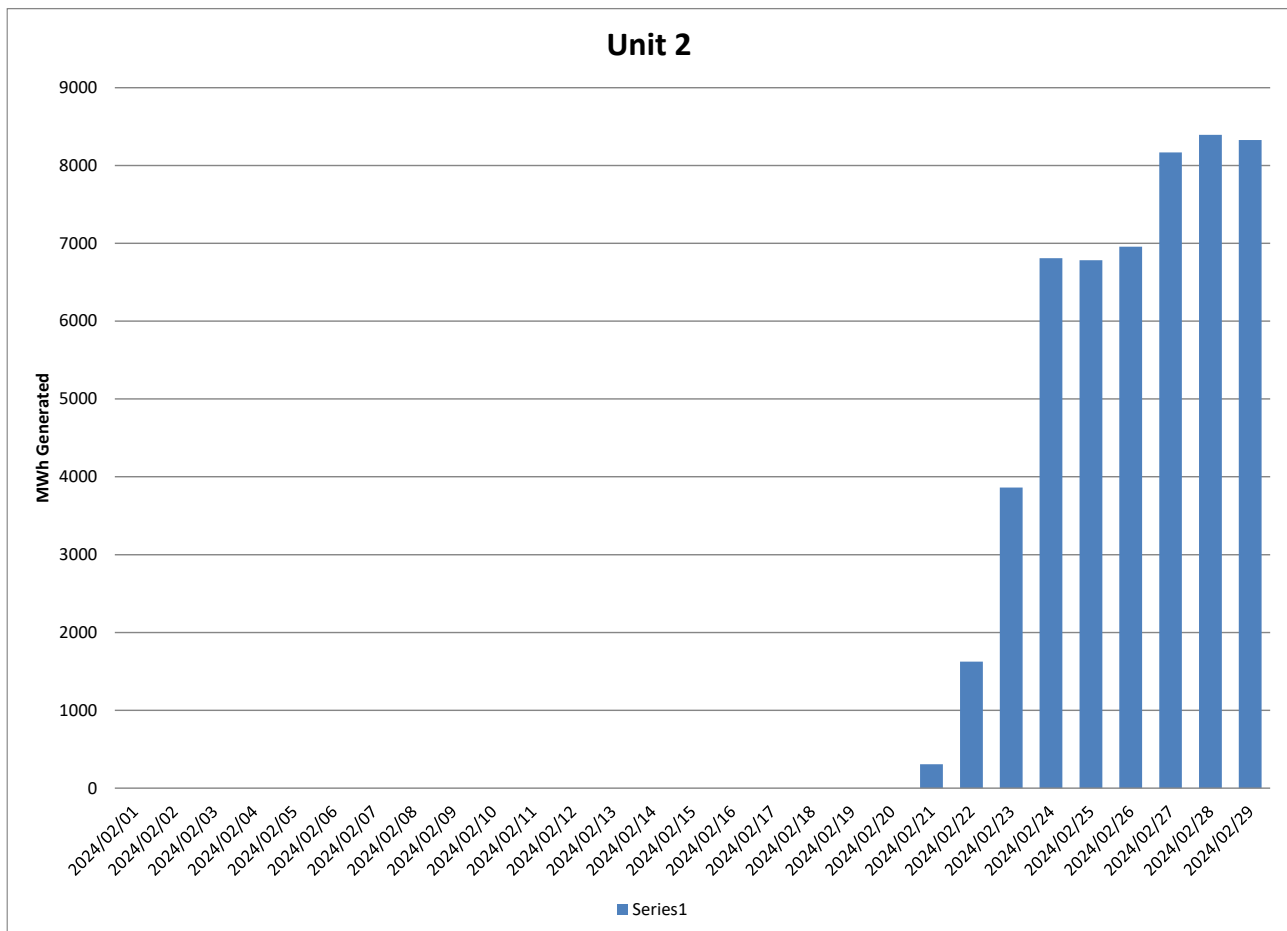


**Figure 16: Unit 1 daily generated power in MWh for the month of February 2024**

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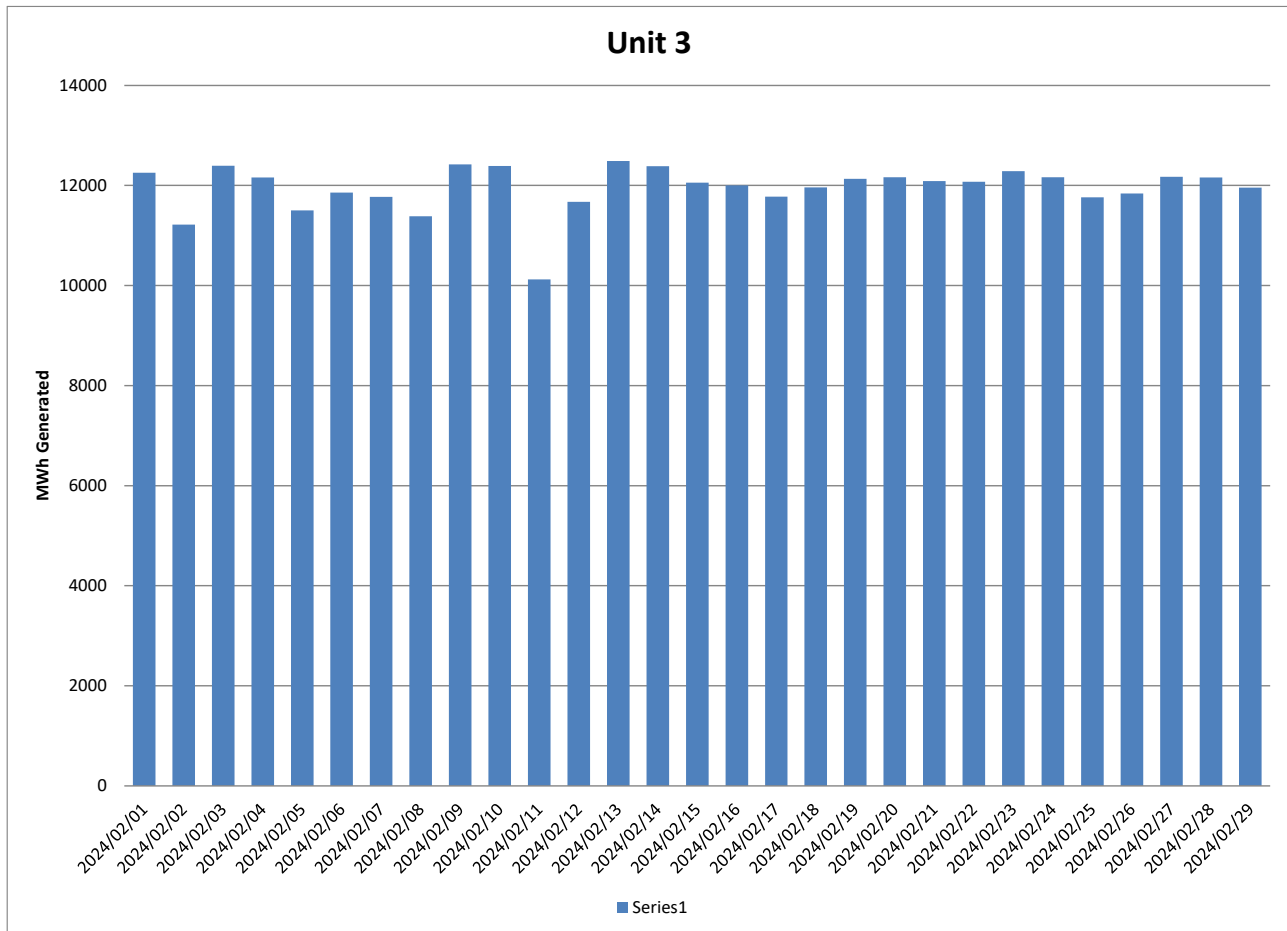


**Figure 17: Unit 2 daily generated power in MWh for the month of February 20**

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**Figure 18: Unit 3 daily generated power in MWh for the month of February 2024**

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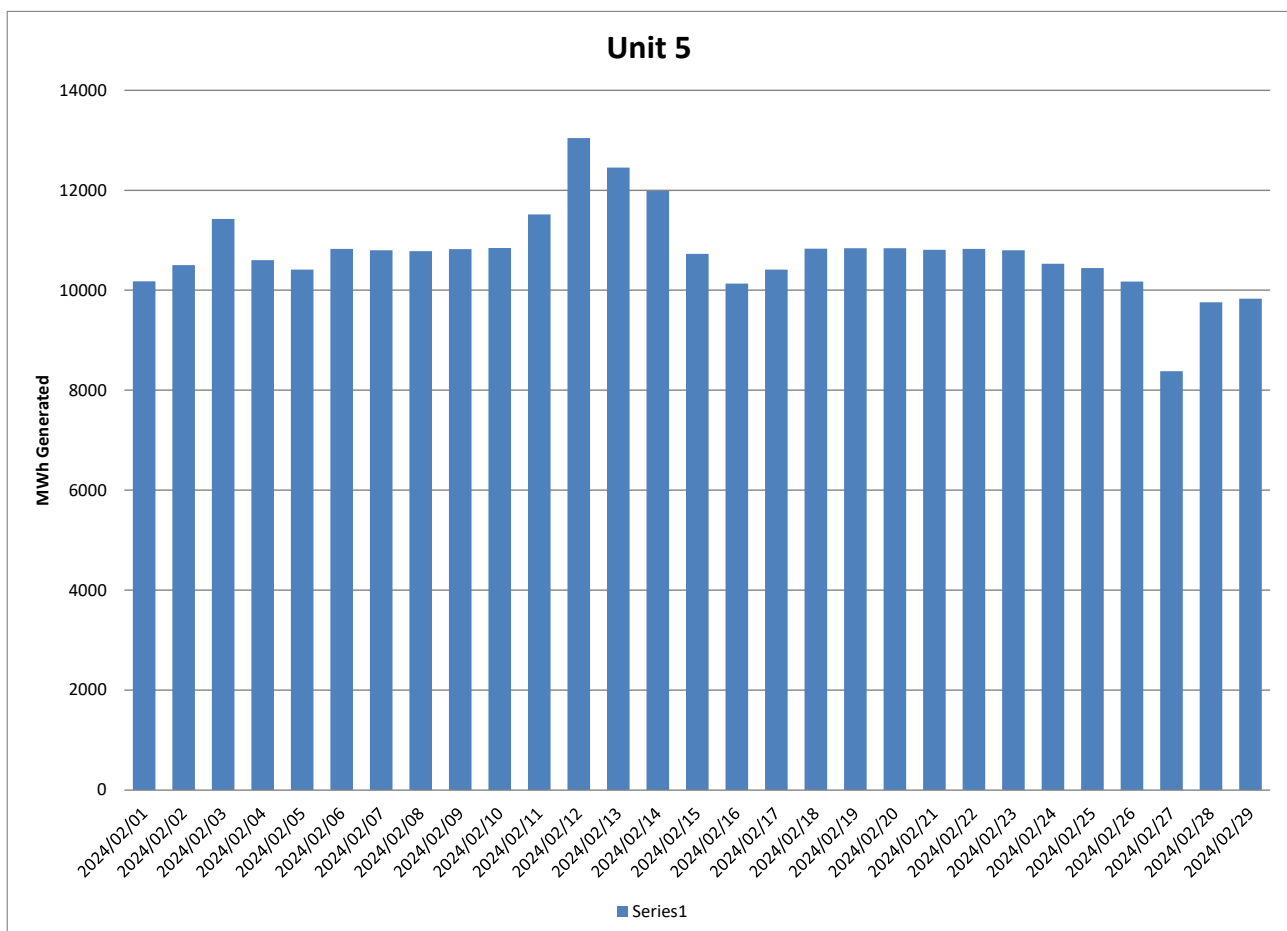
## Unit 4

### Unit 4 off load

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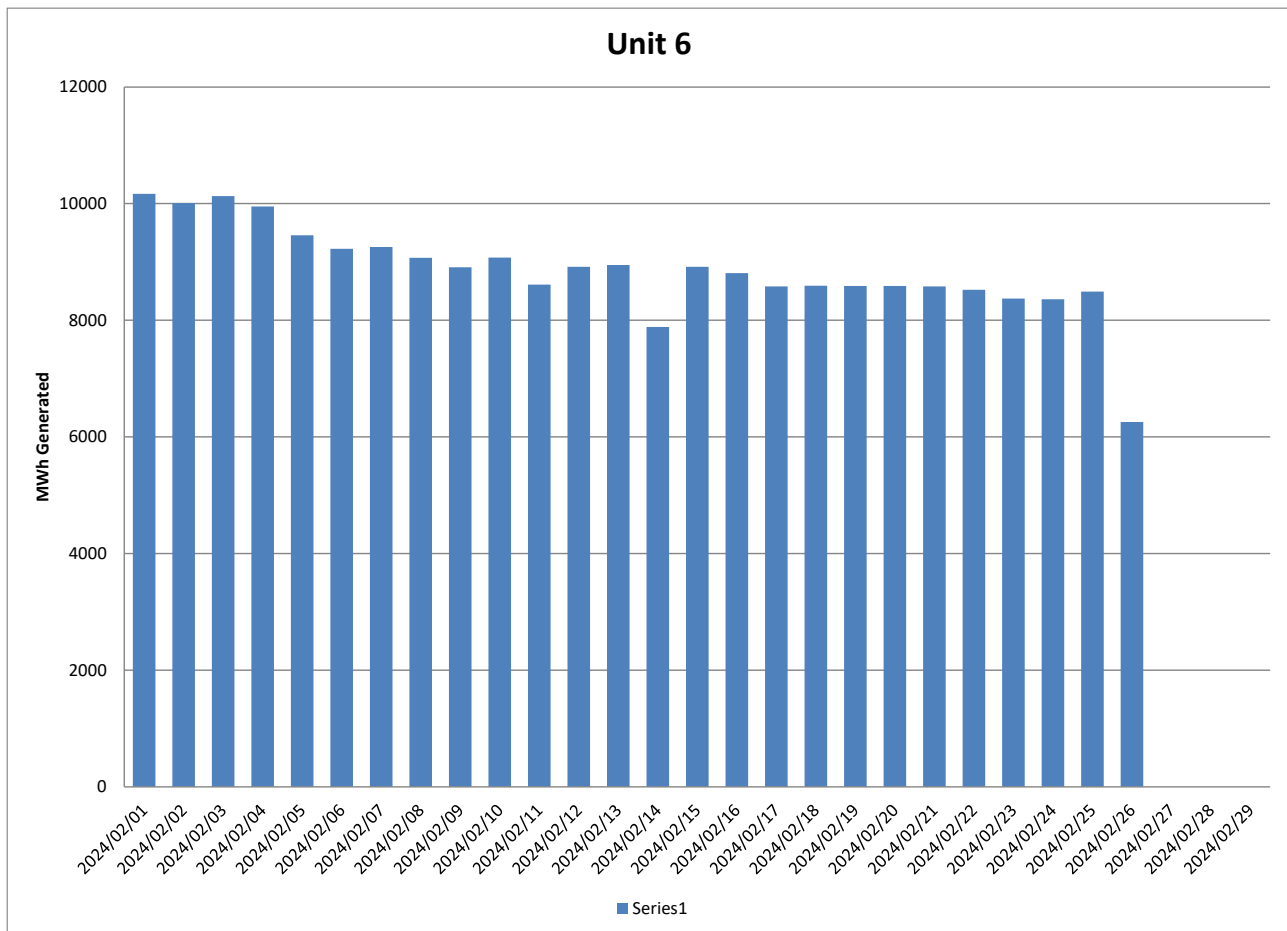


**Figure 19: Unit 5 daily generated power in MWh for the month of February 2024**

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

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## 2.5 Pollutant Tonnages

The emitted pollutant tonnages for February 2024 are provided in table 6.

**Table 6:** Pollutant tonnages for the month of February 2024

| Associated Unit/Stack | PM (tons)    | SO <sub>2</sub> (tons) | NO <sub>x</sub> (tons) |
|-----------------------|--------------|------------------------|------------------------|
| Unit 1                | 112.3        | 5 235.8                | 823.6                  |
| Unit 2                | 0.0          | 0.0                    | 0.0                    |
| Unit 3                | 62.3         | 5 481.0                | 852.6                  |
| Unit 4                | Off          | Off                    | Off                    |
| Unit 5                | 193.7        | 3 233.5                | 582.2                  |
| Unit 6                | 343.1        | 2 600.5                | 484.8                  |
| <b>SUM</b>            | <b>711.4</b> | <b>16 550.8</b>        | <b>2 743.3</b>         |

## 2.6 Operating days in compliance to PM AEL Limit

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

| Associated Unit/Stack | Normal    | Grace     | Section 30 | Contravention | Total Exceedance | Average PM (mg/Nm <sup>3</sup> ) |
|-----------------------|-----------|-----------|------------|---------------|------------------|----------------------------------|
| Unit 1                | 5         | 4         | 0          | 17            | 21               | 64.1                             |
| Unit 2                | 4         | 2         | 0          | 0             | 2                | 45.7                             |
| Unit 3                | 26        | 3         | 0          | 0             | 3                | 28.7                             |
| Unit 4                | Off       | Off       | Off        | Off           | Off              | Off                              |
| Unit 5                | 1         | 2         | 0          | 26            | 28               | 107.7                            |
| Unit 6                | 0         | 0         | 0          | 26            | 26               | 289.2                            |
| <b>SUM</b>            | <b>36</b> | <b>11</b> | <b>0</b>   | <b>69</b>     | <b>80</b>        |                                  |

## 2.7 Operating days in compliance to SO<sub>x</sub> AEL Limit

**Table 8:** Operating days in compliance with SO<sub>x</sub> AEL limit of February 2024

| Associated Unit/Stack | Normal     | Grace    | Section 30 | Contravention | Total Exceedance | Average SO <sub>2</sub> (mg/Nm <sup>3</sup> ) |
|-----------------------|------------|----------|------------|---------------|------------------|---|
| Unit 1                | 27         | 0        | 0          | 0             | 0                | 2 779.1                                       |
| Unit 2                | 9          | 0        | 0          | 0             | 0                | 1 913.1                                       |
| Unit 3                | 29         | 0        | 0          | 0             | 0                | 2 547.0                                       |
| Unit 4                | Off        | Off      | Off        | Off           | Off              | Off   |
| Unit 5                | 29         | 0        | 0          | 0             | 0                | 1 761.1                                       |
| Unit 6                | 26         | 0        | 0          | 0             | 0                | 2 173.5                                       |
| <b>SUM</b>            | <b>120</b> | <b>0</b> | <b>0</b>   | <b>0</b>      | <b>0</b>         |   |

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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 February 2024**

| Associated Unit/Stack | Normal     | Grace    | Section 30 | Contravention | Total Exceedance | Average NOx (mg/Nm <sup>3</sup> ) |
|-----------------------|------------|----------|------------|---------------|------------------|-----------------------------------|
| Unit 1                | 27         | 0        | 0          | 0             | 0                | 433.7                             |
| Unit 2                | 0          | 0        | 0          | 0             | 0                |                                   |
| Unit 3                | 29         | 0        | 0          | 0             | 0                | 397.1                             |
| Unit 4                | Off        | Off      | Off        | Off           | Off              | Off                               |
| Unit 5                | 29         | 0        | 0          | 0             | 0                | 317.2                             |
| Unit 6                | 26         | 0        | 0          | 0             | 0                | 405.2                             |
| <b>SUM</b>            | <b>111</b> | <b>0</b> | <b>0</b>   | <b>0</b>      | <b>0</b>         |                                   |

## 2.9 Reference values

**Table 10: Reference values for data provided, February 2024**

| Compound / Parameter | Units of Measure | Unit 1 | Unit 2 | Unit 3 | Unit 4 | Unit 5 | Unit 6 |
|----------------------|------------------|--------|--------|--------|--------|--------|--------|
| Oxygen               | %                | 7.70   | 6.25   | 7.57   | Off    | 6.73   | 11.03  |
| Moisture             | %                | 4.37   | 4.00   | 4.29   | Off    | 4.33   | 2.12   |
| Velocity             | m/s              | 27.5   | 18.0   | 28.0   | Off    | 21.7   | 25.6   |
| Temperature          | °C               | 138.0  | 114.0  | 130.3  | Off    | 122.5  | 165.5  |
| Pressure             | mBar             | 927.7  |        | 917.0  | Off    | 948.3  | 909.8  |

Unit 2 monitor was faulty.

## 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 February 2024 are provided in table 6.

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

| Associated Unit/Stack | PM    | SO <sub>2</sub> | NO    |
|-----------------------|-------|-----------------|-------|
| Unit 1                | 100.0 | 96.8            | 96.8  |
| Unit 2                | 100.0 | 0.0             | 0.0   |
| Unit 3                | 100.0 | 100.0           | 100.0 |
| Unit 4                | Off   | Off             | Off   |
| Unit 5                | 99.6  | 100.0           | 100.0 |
| Unit 6                | 98.9  | 99.8            | 99.8  |

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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

### **Unit 2**

- Unit off load
- Unit synchronised on 2024-02-23.

### **Unit 3**

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

### **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
- Unit shut down on 2024-02-26.

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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

|                                     |                                |   |                                |                                |
|-------------------------------------|--------------------------------|---|--------------------------------|--------------------------------|
| <b>Name of service provider:</b>    |                                | Stacklabs Environmental Services CC                 |                                |                                |
| <b>Address of service provider:</b> |                                | 10 Chisel Street<br>Boltonia<br>Krugersdorp<br>1739 |                                |                                |
| <b>Stack/ Unit</b>                  | <b>PM</b>                      | <b>SO<sub>2</sub></b>                               | <b>NO<sub>x</sub></b>          | <b>CO<sub>2</sub></b>          |
| 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<sub>2</sub> and NO<sub>x</sub> 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<sub>2</sub> and NO<sub>x</sub> (without unit 4 and 6 PMs)

|                                     |                         |  |                       |                       |
|-------------------------------------|-------------------------|--|-----------------------|-----------------------|
| <b>Name of service provider:</b>    |                         | Levego Environmental services  |                       |                       |
| <b>Address of service provider:</b> |                         | Building R6<br>Pineland site<br>Ardeer Road<br>Modderfontein<br>1645 |                       |                       |
| <b>Stack/ Unit</b>                  | <b>PM</b>               | <b>SO<sub>2</sub></b>  | <b>NO<sub>x</sub></b> | <b>CO<sub>2</sub></b> |
| 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      |

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Note: The CEMS Spot verification tests for PM, SO<sub>2</sub> and NO<sub>x</sub> 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

|   |            |       |
|---|------------|-------|
| <b>Unit</b>                                   | 1          |       |
| <b>Fires in</b>                               | 2024/02/12 | 10h24 |
| <b>Synchronization with Grid</b>              | 2024/02/12 | 10h26 |
| <b>Emissions below limit</b>                  | 2024/02/13 | 15h02 |
| <b>Fires in, to synchronization</b>           | 0.2        | HOURS |
| <b>Synchronization to &lt; Emission limit</b> | 28.36      | HOURS |

|   |            |       |
|---|------------|-------|
| <b>Unit</b>                                   | 2          |       |
| <b>Fires in</b>                               | 2024/02/22 | 15h30 |
| <b>Synchronization with Grid</b>              | 2024/02/23 | 08h54 |
| <b>Emissions below limit</b>                  | 2024/02/23 | 13h00 |
| <b>Fires in, to synchronization</b>           | 17.24      | HOURS |
| <b>Synchronization to &lt; Emission limit</b> | 4.6        | HOURS |

|   |            |       |
|---|------------|-------|
| <b>Unit</b>                                   | 5          |       |
| <b>Fires in</b>                               | 2024/02/27 | 12h18 |
| <b>Synchronization with Grid</b>              | 2024/02/27 | 14h34 |
| <b>Emissions below limit</b>                  | 2024/02/27 | 14h34 |
| <b>Fires in, to synchronization</b>           | 2.16       | HOURS |
| <b>Synchronization to &lt; Emission limit</b> | 0          | HOURS |

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## 2.12 Emergency generation

**Table 15:** Emergency generation

|   | Unit 1 | Unit 2 | Unit 3 | Unit 4 | Unit 5 | Unit 6 |
|---|--------|--------|--------|--------|--------|--------|
| <b>Emergency Generation hours declared by national Control</b>      | 696    | 696    | 696    | Off    | 696    | 696    |
| <b>Emergency Hours declared including hours after standing down</b> | 623.95 | 195.57 | 696.00 | Off    | 696.00 | 617.65 |
| <b>Days over the Limit during Emergency Generation</b>              | 21     | 2      | 3      | 0      | 28     | 26     |

During the period under review all Units were on emergency generation in force from 01 February 2024 until 29 February 2024.

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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   |
|---------------------------|--|---|---|--|---|
| DA Lephalale Municipality | Operational changes - The ashing philosophy was updated to piggybacking format (increasing height of the dump by ashing on top of rehabilitated old ash body); | Average fugitive dust fallout for August 2023 on the Ash dumping facility in all directions of communities where complains originated from was 742,89 mg/m2/day | N/A   | <ol style="list-style-type: none"> <li>1. Acquire additional resources to extend the dust suppression with water at the ash dump to cover the piggybacking area.</li> <li>2. Covering the exposed area of the ash dump with topsoil</li> <li>3. Application of chemicals to bind the ash(to form crust to prevent ash storms during windy conditions)</li> </ol> | <ul style="list-style-type: none"> <li>• Completed in November 2024</li> <li>• Completed in December 2023</li> <li>• Completed in January 2024</li> </ul> |

## 2.14 Air quality improvements and social responsibility conducted.

### Air quality improvements

None

### 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.

### Unit 2

- Unit off
- Unit synchronised on 2024-02-23.

### 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.

### 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.
- Unit shut down on 2024-02-26.

### 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



GENERAL MANAGER: MATIMBA POWER STATION

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