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|  | Medupi Power Station Monthly Emissions Report | Template Identifier | 240-43921804 | Rev | 6 |
| | | Document Identifier | 240-88543153 | Rev | 2 |
| | | Effective Date | April 2022 | | |
| | | Review Date | April 2024 | | |

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Date: 2023/04/30

Enquiries: MF Dikgale

Tel: 014 762 6820

Ref: H16/1/13-AEL/M1/R1 – April 2023

Dear Mr Koenaitse

MEDUPI POWER STATION MONTHLY EMISSIONS REPORT FOR THE MONTH OF APRIL 2023

This document serves as the monthly emissions report required in terms of Section 7.7.1 of Medupi Power Station Provisional Atmospheric Emission License (AEL), H16/1/13-AEL/M1/R1. This Report supersedes the report that was sent to the Department May 2023, the report was revised due to findings from the Eskom Data Integrity review Audit of FY2023.

This report reflects Unit 1, 2, 3, 5 and 6 gaseous and particulate emissions performance against the AEL limit for the month of April 2023 only.

1. Raw Materials and Products


TABLE 1: QUANTITY OF RAW MATERIALS AND PRODUCTS CONSUMPTION IN APRIL 2023

| Raw Materials and Products used | Raw Material Type | Unit | Maximum Permitted Consumption/ Rate (Quantity) | Consumption – April 2023 |
|---------------------------------|--------------------------|------------|--|--|
| | Coal | Tons/month | 1 875 000 | 962 039.0 |
| | Fuel Oil | Tons/month | 20 000 | 3000 |
| Production Rates | Product/ By-Product Name | Unit | Maximum Production Capacity Permitted (Quantity) | Production Rate in Month of April 2023 |
| | Energy | GWh | 3 571.2 | 1973.11 |
| | Ash Emitted | Tons/month | not specified | 223.0 |

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| Date | Reportable hours of Operation | | | | | | Coal usage | Production rate (MW) | | | | | |
|----------|-------------------------------|------|------|-----|------|------|------------|----------------------|-----|-----|-----|-----|-----|
| | U1 | U2 | U3 | U4 | U5 | U6 | | U1 | U2 | U3 | U4 | U5 | U6 |
| 01-April | 24.0 | 24.0 | 24.0 | 0.0 | 24.0 | 0.0 | 35676 | 767 | 788 | 722 | Off | 653 | 570 |
| 02-April | 24.0 | 24.0 | 24.0 | 0.0 | 24.0 | 0.0 | 32930 | 697 | 783 | 750 | Off | 614 | 385 |
| 03-April | 24.0 | 24.0 | 24.0 | 0.0 | 24.0 | 0.0 | 29707 | 607 | 779 | 703 | Off | 629 | Off |
| 04-April | 24.0 | 24.0 | 24.0 | 0.0 | 24.0 | 0.0 | 31083 | 737 | 794 | 742 | Off | 644 | Off |
| 05-April | 24.0 | 24.0 | 24.0 | 0.0 | 24.0 | 0.0 | 31852 | 769 | 792 | 750 | Off | 661 | Off |
| 06-April | 24.0 | 24.0 | 24.0 | 0.0 | 24.0 | 0.0 | 31365 | 749 | 787 | 743 | Off | 642 | Off |
| 07-April | 24.0 | 24.0 | 24.0 | 0.0 | 24.0 | 0.0 | 29697 | 736 | 612 | 747 | Off | 646 | 94 |
| 08-April | 24.0 | 24.0 | 24.0 | 0.0 | 24.0 | 0.0 | 29997 | 705 | 685 | 713 | Off | 648 | 539 |
| 09-April | 24.0 | 24.0 | 24.0 | 0.0 | 24.0 | 0.0 | 31239 | 721 | 774 | 706 | Off | 644 | Off |
| 10-April | 24.0 | 24.0 | 24.0 | 0.0 | 24.0 | 0.0 | 29416 | 673 | 729 | 713 | Off | 646 | Off |
| 11-April | 24.0 | 24.0 | 24.0 | 0.0 | 24.0 | 0.0 | 29156 | 736 | 730 | 682 | Off | 673 | Off |
| 12-April | 24.0 | 24.0 | 24.0 | 0.0 | 23.6 | 0.0 | 29800 | 739 | 794 | 683 | Off | 627 | Off |
| 13-April | 24.0 | 24.0 | 24.0 | 0.0 | 0.0 | 0.0 | 23894 | 702 | 773 | 695 | Off | off | Off |
| 14-April | 24.0 | 24.0 | 24.0 | 0.0 | 0.0 | 0.0 | 24869 | 729 | 734 | 746 | Off | Off | Off |
| 15-April | 24.0 | 24.0 | 24.0 | 0.0 | 0.0 | 0.0 | 25383 | 714 | 741 | 746 | Off | off | Off |
| 16-April | 24.0 | 24.0 | 24.0 | 0.0 | 0.0 | 0.0 | 25088 | 736 | 702 | 750 | Off | 261 | Off |
| 17-April | 24.0 | 24.0 | 24.0 | 0.0 | 13.4 | 0.0 | 29761 | 729 | 707 | 703 | Off | 486 | 229 |
| 18-April | 24.0 | 24.0 | 24.0 | 0.0 | 24.0 | 10.8 | 34298 | 740 | 723 | 744 | Off | 579 | 429 |
| 19-April | 24.0 | 24.0 | 24.0 | 0.0 | 24.0 | 24.0 | 36996 | 728 | 732 | 750 | Off | 640 | 588 |
| 20-April | 24.0 | 24.0 | 24.0 | 0.0 | 24.0 | 10.8 | 35803 | 691 | 722 | 750 | Off | 703 | 573 |
| 21-April | 24.0 | 24.0 | 24.0 | 0.0 | 24.0 | 3.2 | 36923 | 657 | 728 | 709 | Off | 586 | 723 |
| 22-April | 24.0 | 24.0 | 24.0 | 0.0 | 24.0 | 24.0 | 38612 | 659 | 694 | 750 | Off | 625 | 726 |
| 23-April | 24.0 | 24.0 | 24.0 | 0.0 | 24.0 | 24.0 | 37368 | 558 | 718 | 710 | Off | 646 | 692 |
| 24-April | 24.0 | 24.0 | 24.0 | 0.0 | 24.0 | 7.8 | 36634 | 697 | 723 | 696 | Off | 669 | 606 |
| 25-April | 24.0 | 24.0 | 22.0 | 0.0 | 24.0 | 6.7 | 38058 | 740 | 726 | 716 | Off | 693 | 635 |
| 26-April | 24.0 | 24.0 | 0.0 | 0.0 | 24.0 | 23.3 | 35077 | 762 | 757 | 483 | Off | 650 | 662 |
| 27-April | 24.0 | 24.0 | 16.4 | 0.0 | 24.0 | 0.0 | 33322 | 648 | 727 | 575 | Off | 656 | 521 |
| 28-April | 21.7 | 24.0 | 24.0 | 0.0 | 24.0 | 13.5 | 35951 | 642 | 720 | 610 | Off | 649 | 670 |
| 29-April | 0.0 | 24.0 | 24.0 | 0.0 | 24.0 | 24.0 | 30309 | off | 720 | 735 | Off | 650 | 718 |
| 30-April | 0.0 | 23.9 | 23.9 | 0.0 | 23.9 | 23.9 | 31775 | 443 | 697 | 720 | Off | 623 | 718 |

NB: Reportable hours less than 24 highlighted in pink; Unit OFF highlighted in Red.

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2. Abatement Technology

Table 2: Abatement Equipment Control Technology efficiency for month of April 2023

| Associated Unit/Stack | Technology Type | Efficiency | FFP Utilization |
|-----------------------|---------------------------|------------|-----------------|
| Unit 1 | Fabric Filter Plant (FFP) | 99.889% | 100% |
| Unit 2 | Fabric Filter Plant (FFP) | 99.974% | 100% |
| Unit 3 | Fabric Filter Plant (FFP) | 99.910% | 100% |
| Unit 4 | Fabric Filter Plant (FFP) | Off | Off |
| Unit 5 | Fabric Filter Plant (FFP) | 99.904% | 100% |
| Unit 6 | Fabric Filter Plant (FFP) | 99.991% | 100% |

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

3. Energy Source Characteristics

TABLE 3: ENERGY SOURCE MATERIAL CHARACTERISTICS FOR THE MONTH OF APRIL 2023

| Characteristic | Stipulated Range (% by weight on a dry basis) | Monthly Average Content (% by weight on a dry basis) |
|------------------------|---|--|
| | Coal | |
| Sulphur Content | 1.3 - 2.2 | 1.42 |
| Ash Content | 35 - 39 | 35.67 |

TABLE 4: ENERGY SOURCE MATERIAL CHARACTERISTICS FOR THE MONTH OF APRIL 2023

| Characteristic | Stipulated Range (%) | Monthly Average Content (%) |
|------------------------|----------------------|-----------------------------|
| | Oil | |
| Sulphur Content | 0.5 - 3.5 | 2.35 |
| Ash Content | 0.02 - 0.1 | 0.025 |

4. Emissions Reporting

Medupi Power Station uses Continuous Emission Monitoring System which uses the extractive method for analysis.

The emission limits are as follows:

SO₂ Monthly = 3500 mg/Nm³

Dust Daily= 50 mg/Nm³

NO₂ Daily= 750 mg/Nm³

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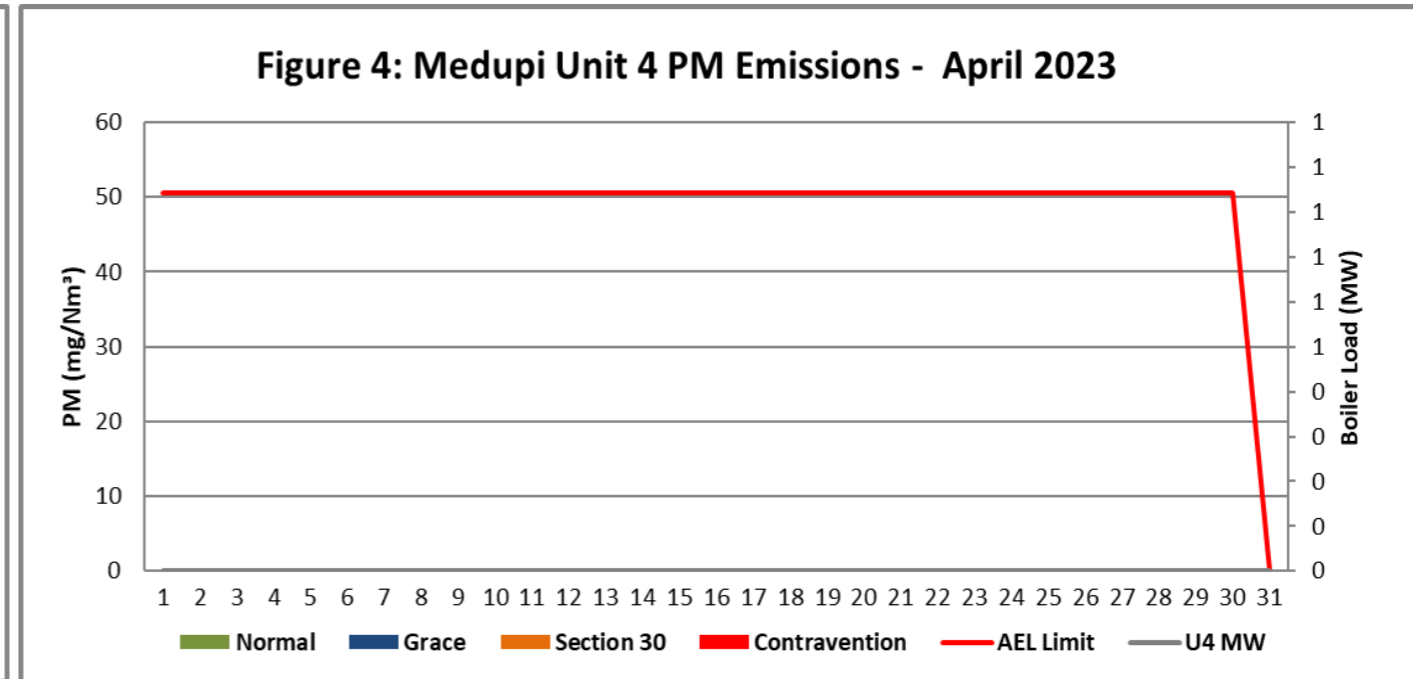
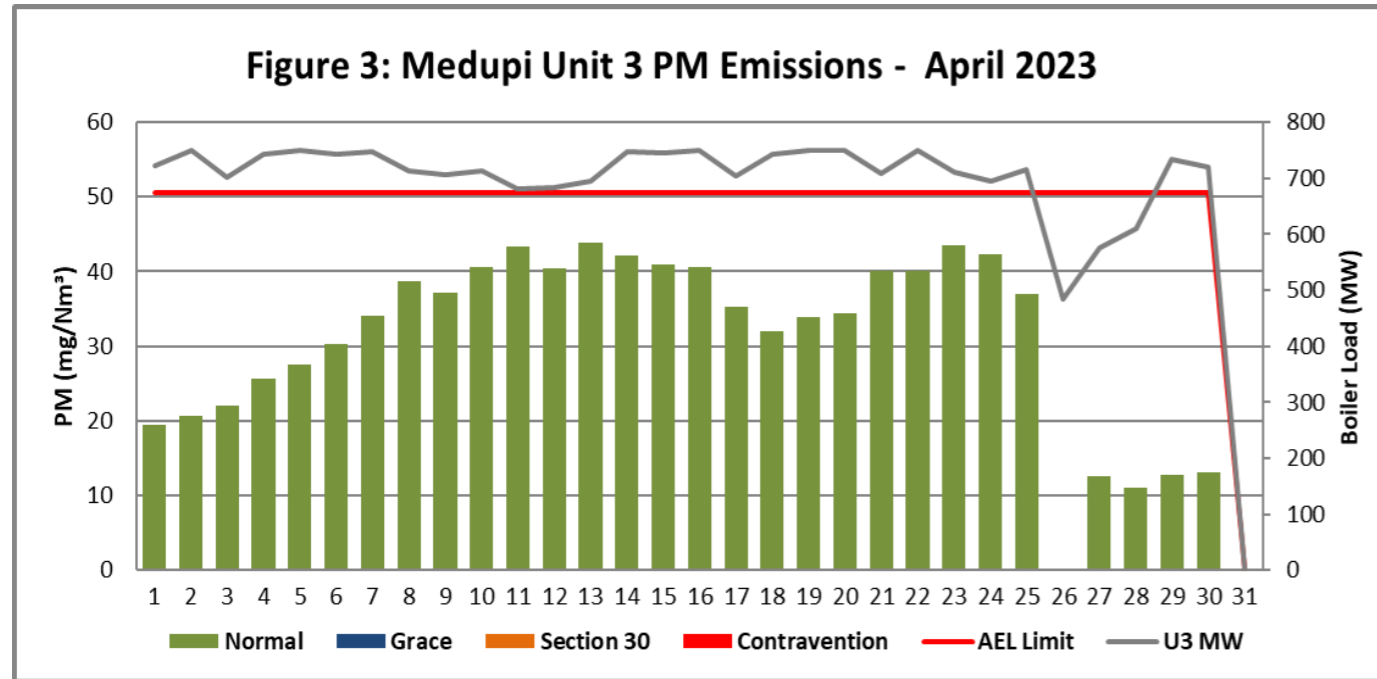
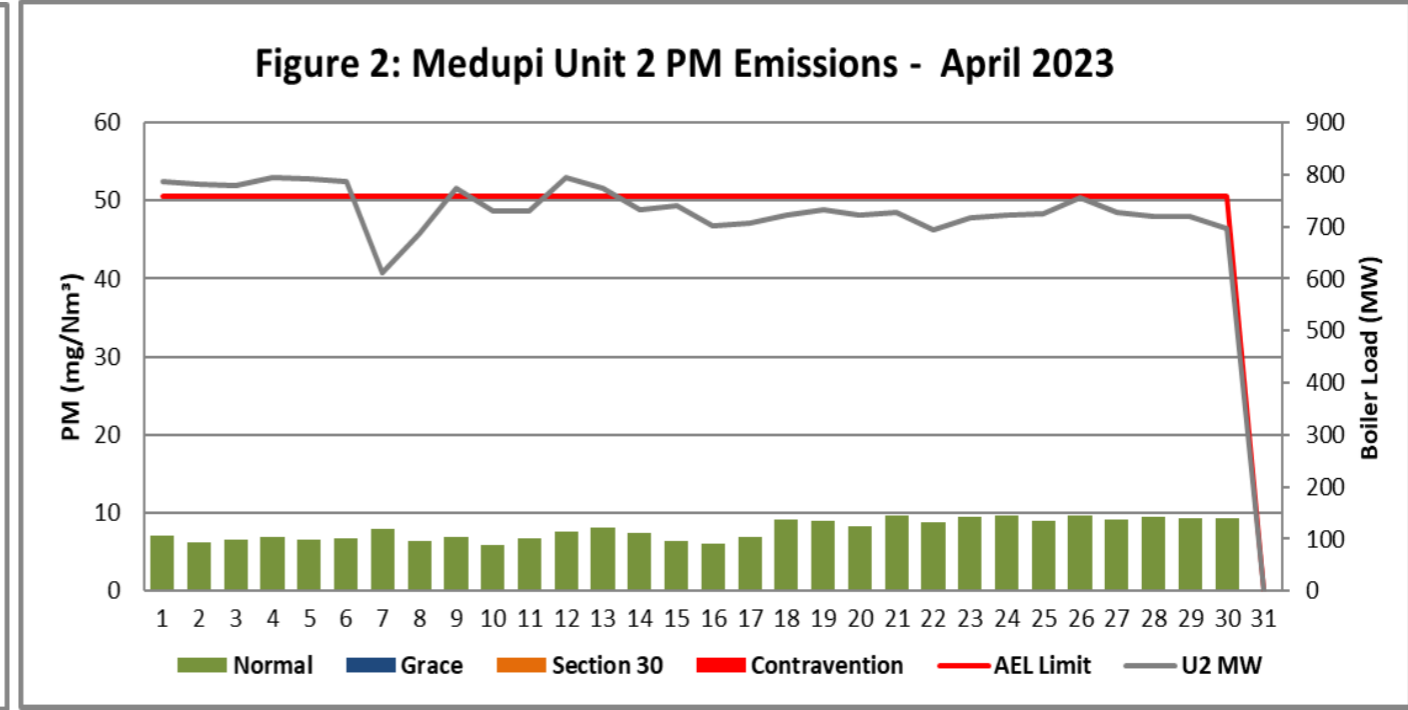
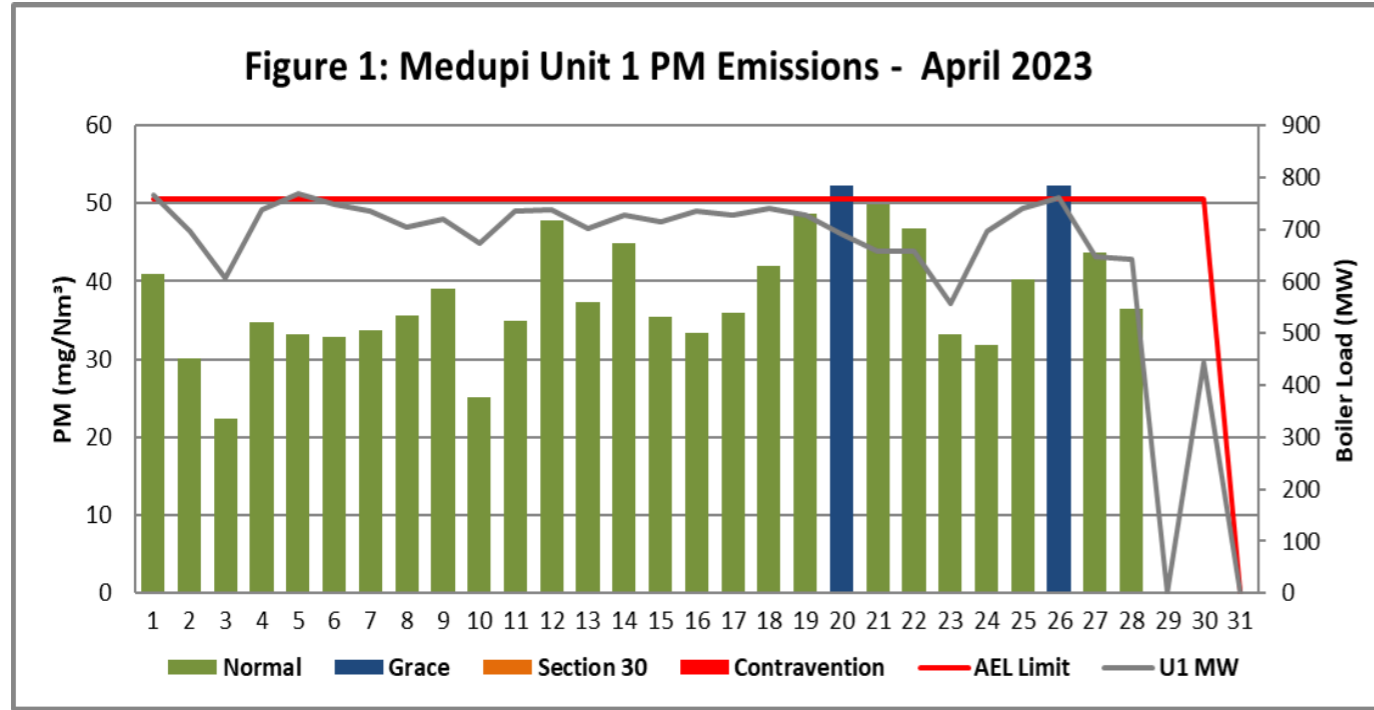
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4.1 PM Daily Averages



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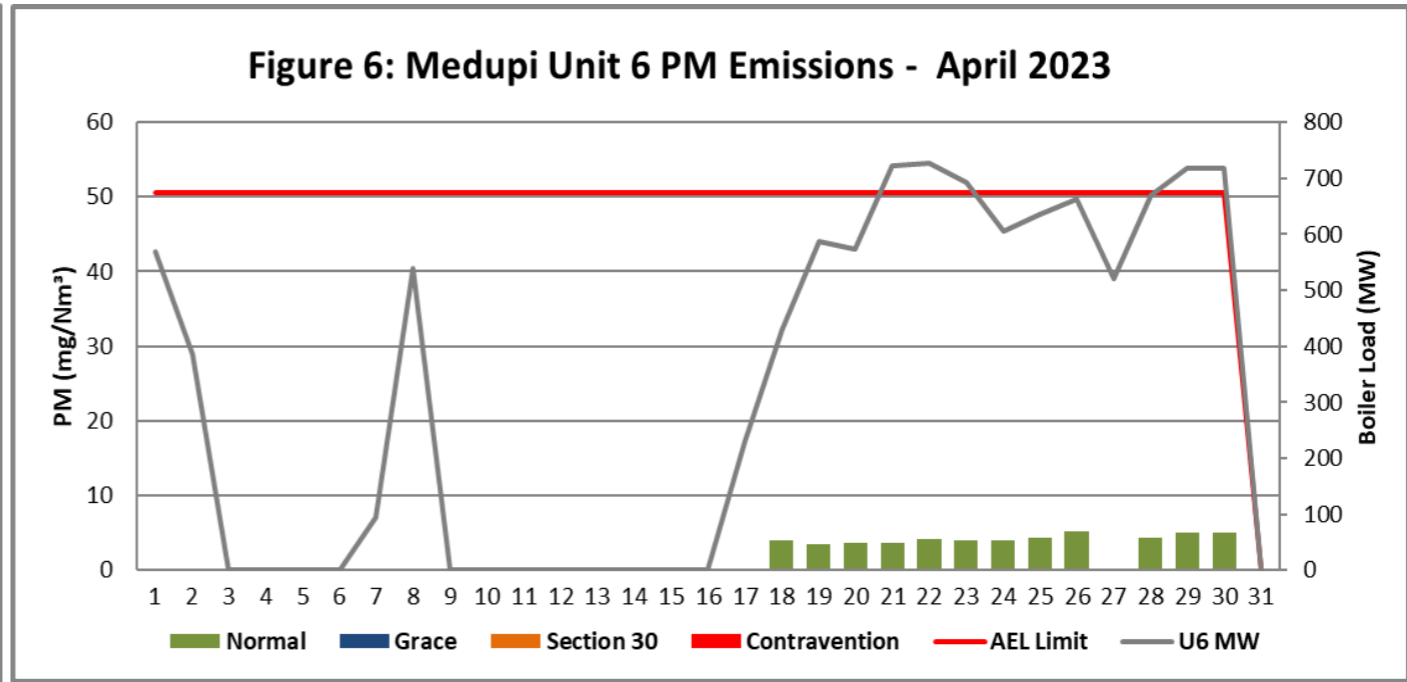
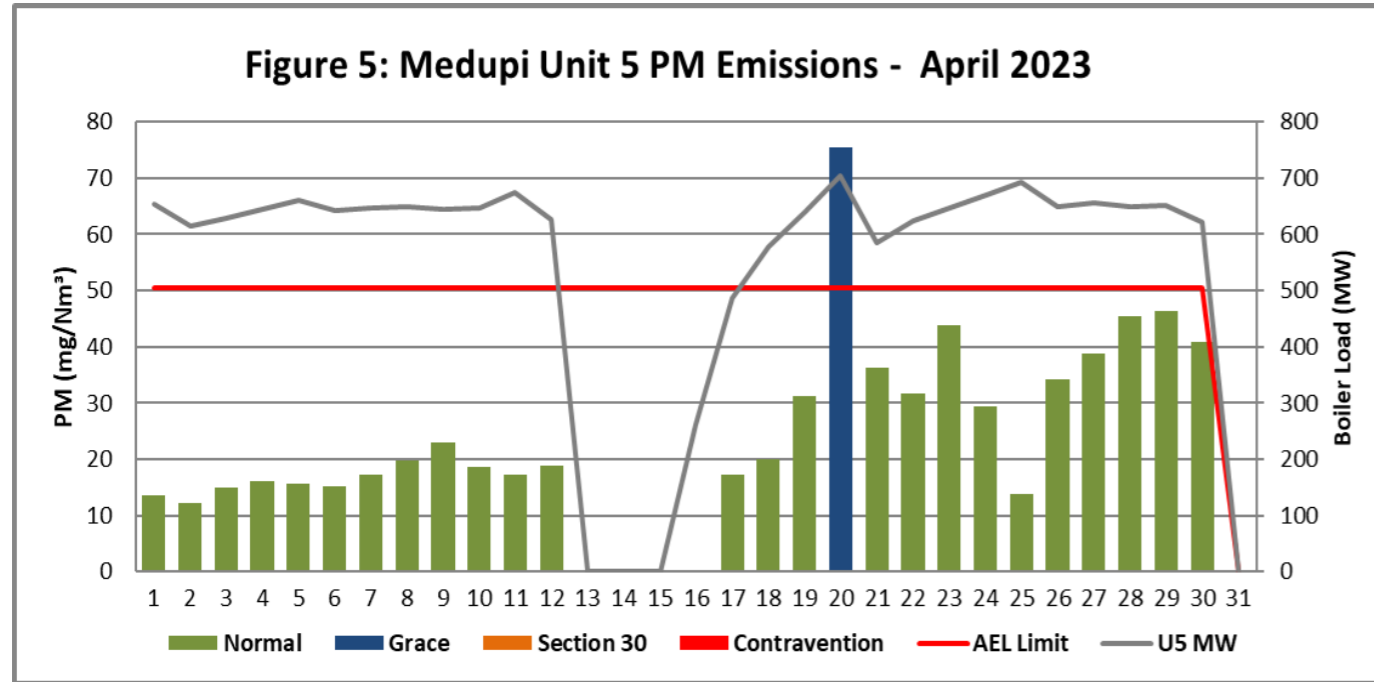
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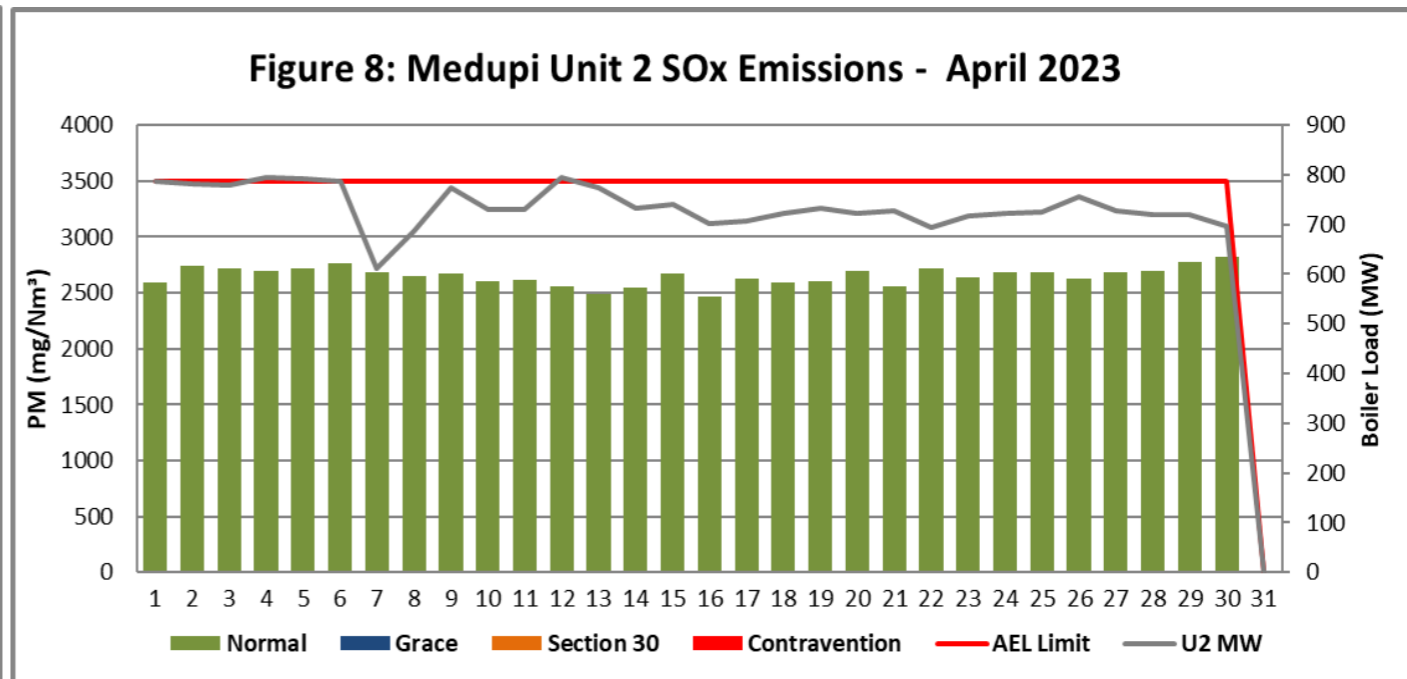
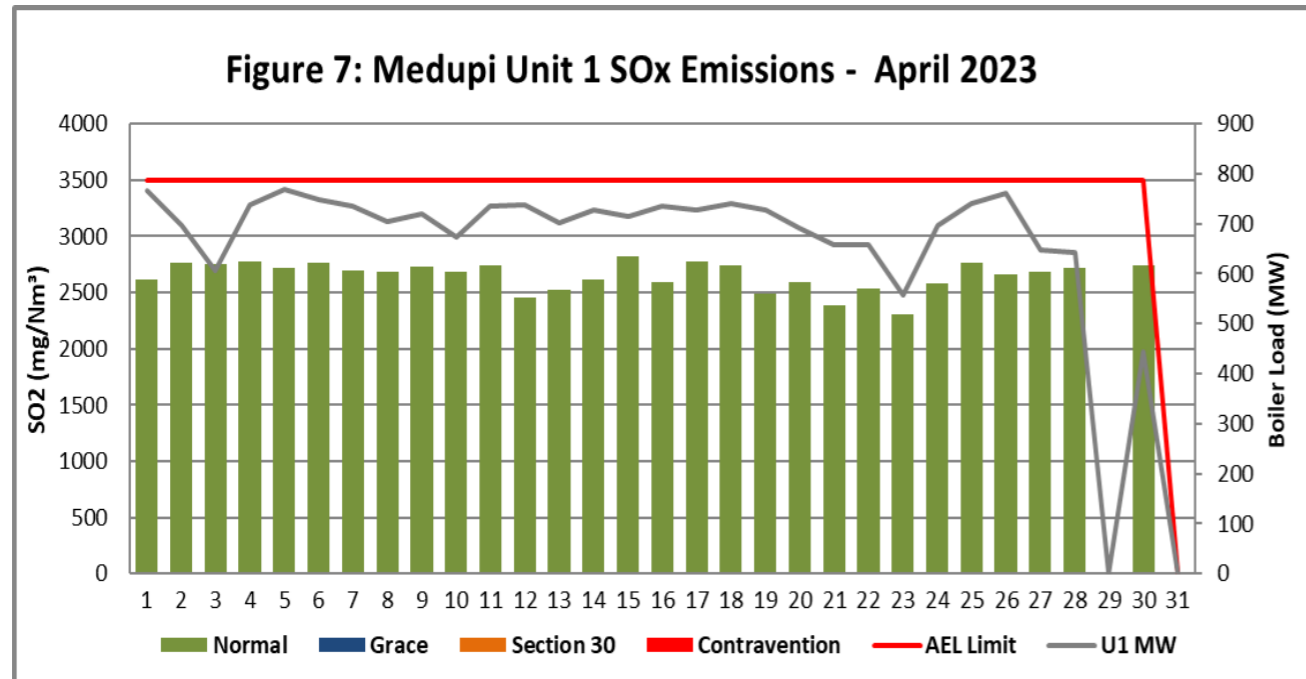


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4.2 SOx Daily Averages



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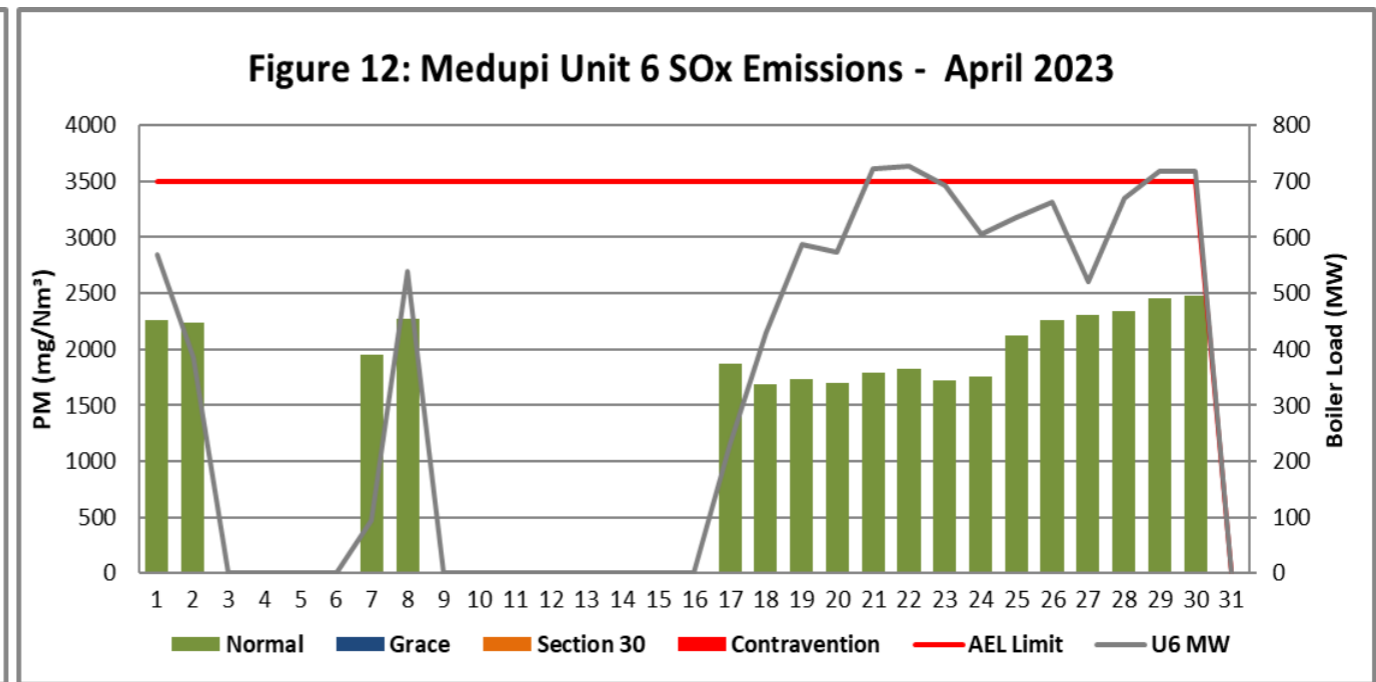
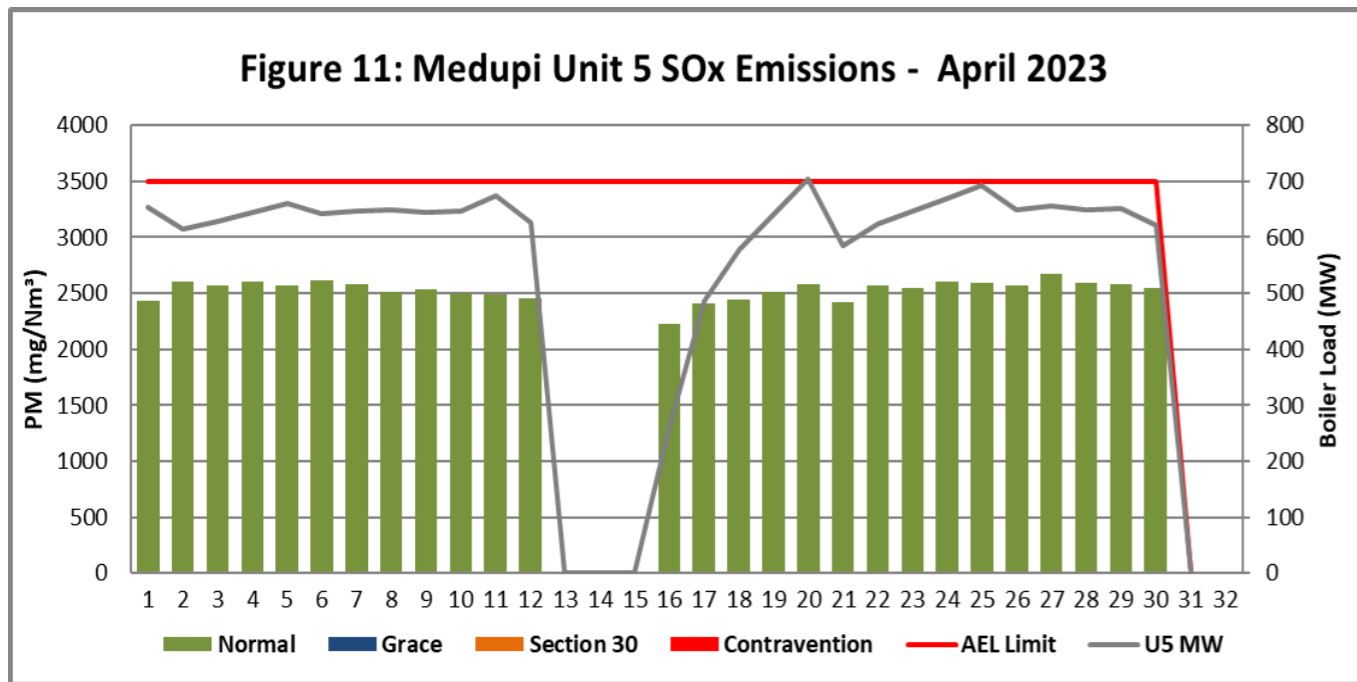
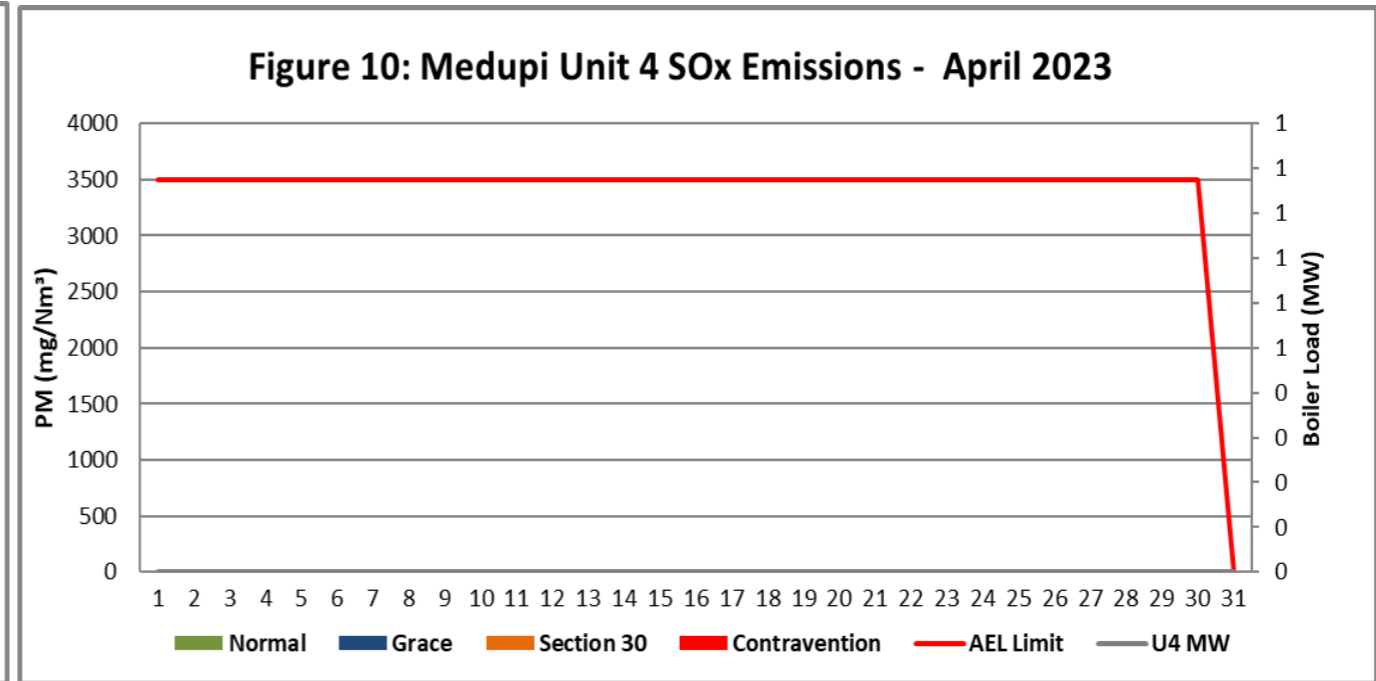
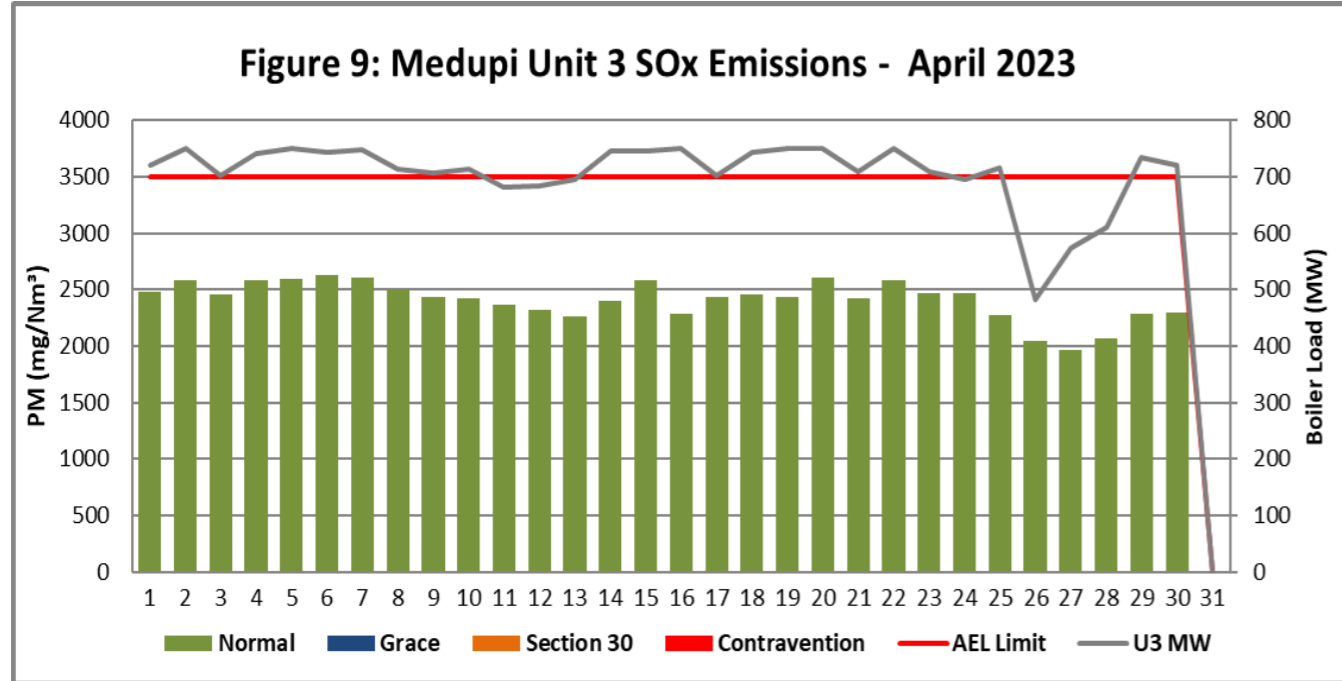
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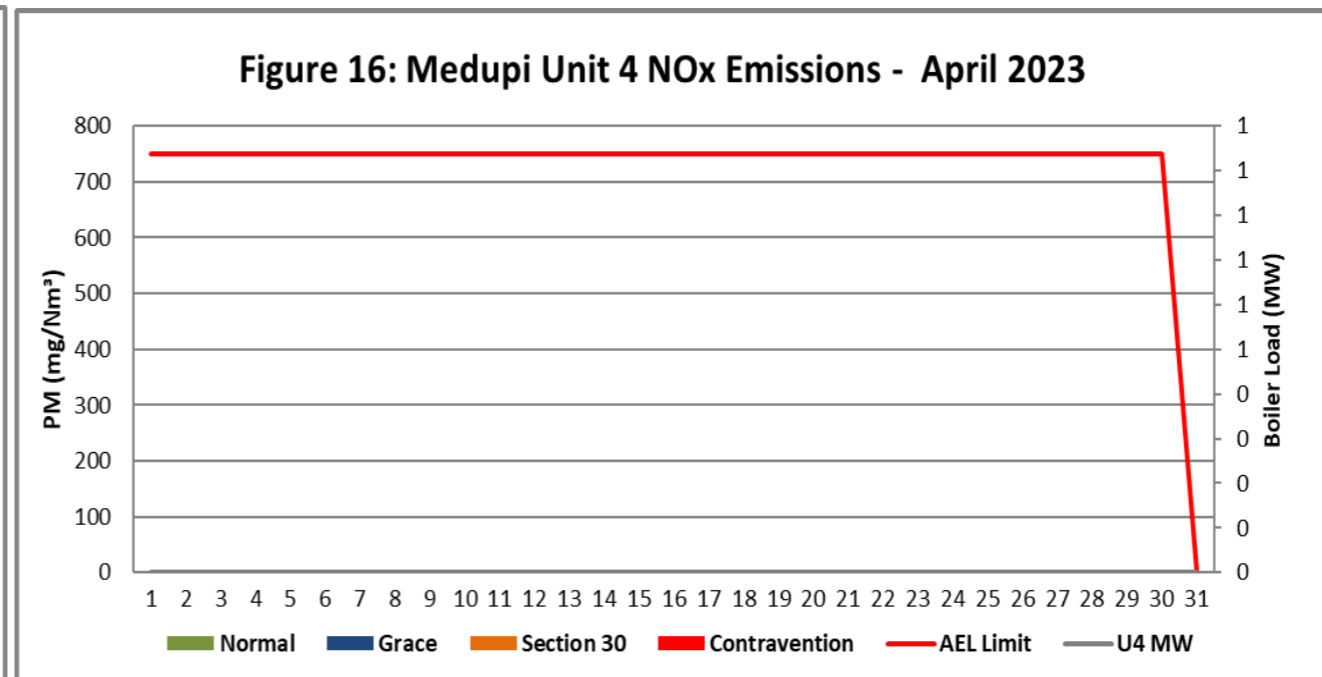
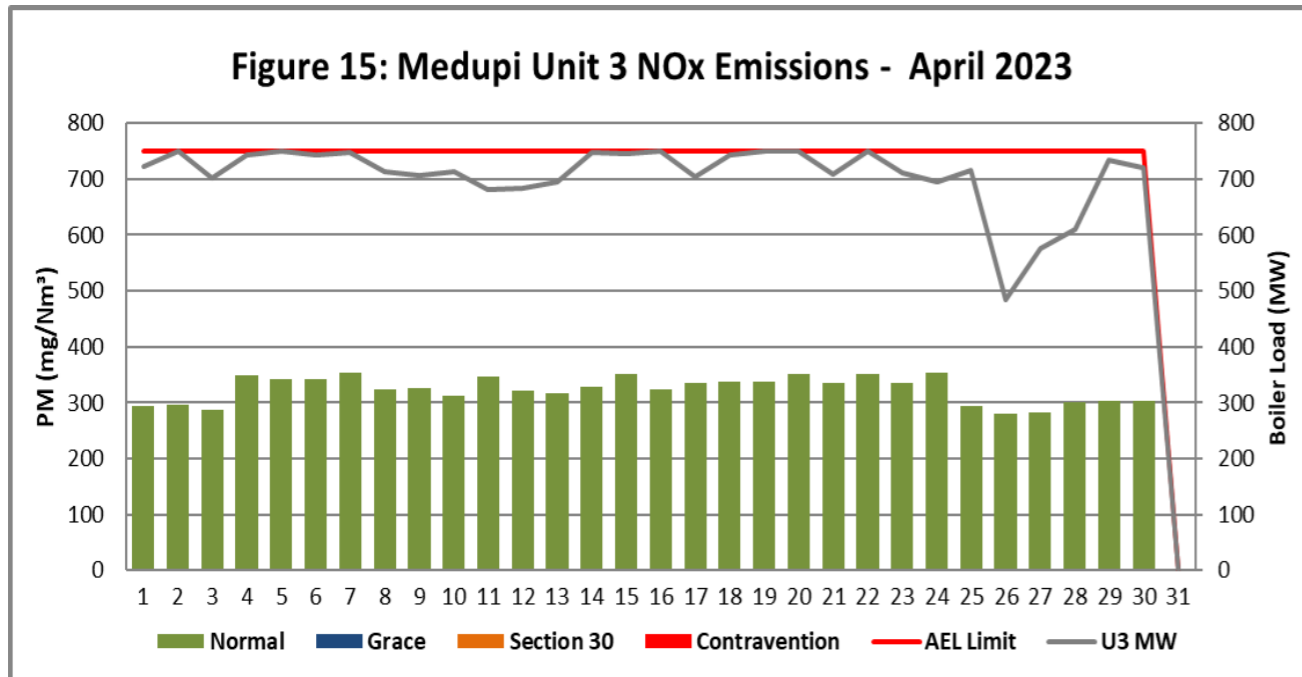
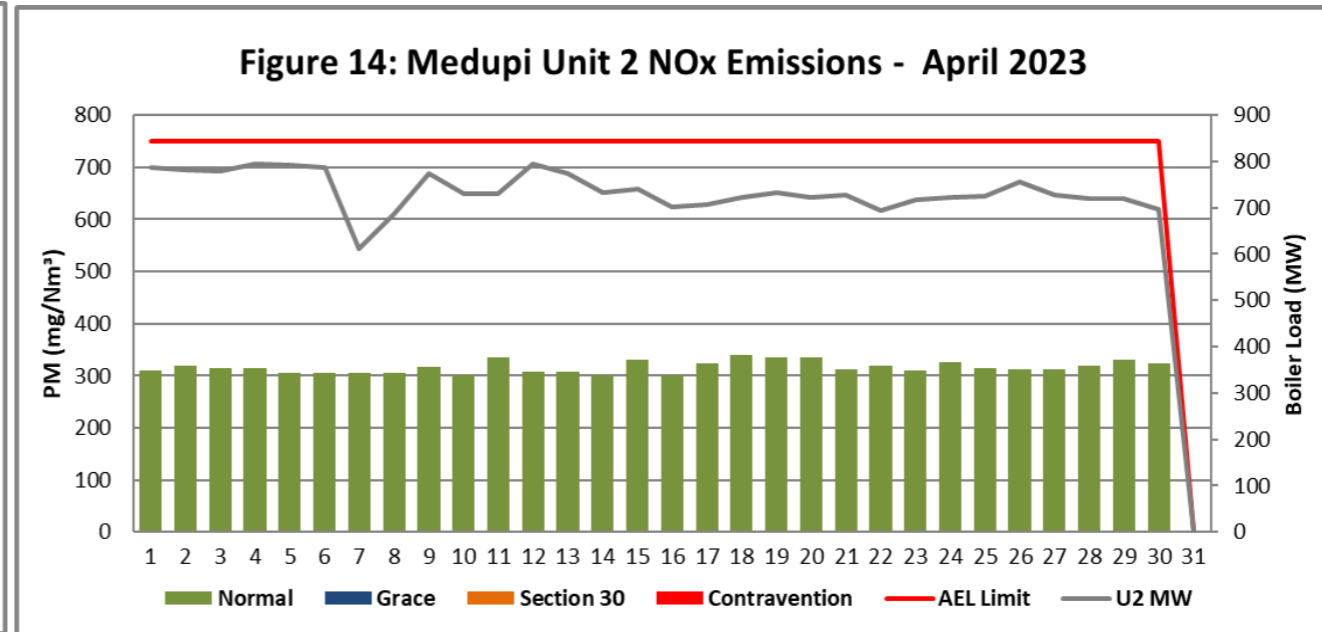
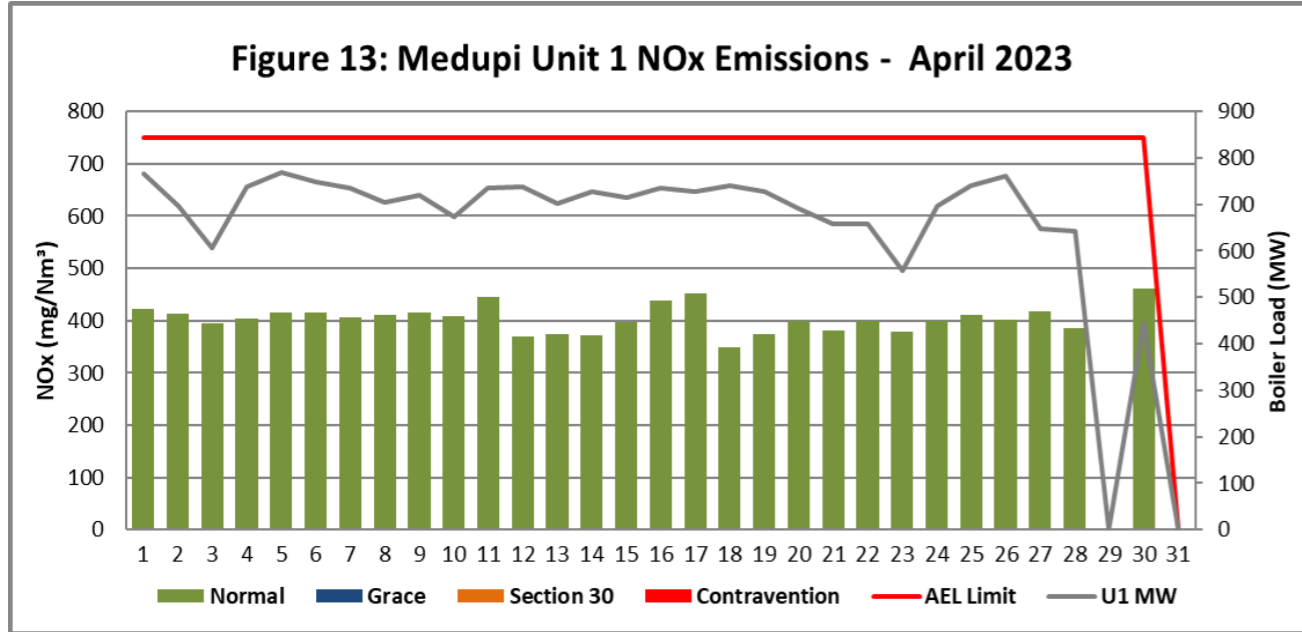
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4.3 NOx Daily Averages



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Figure 17: Medupi Unit 5 NOx Emissions - April 2023

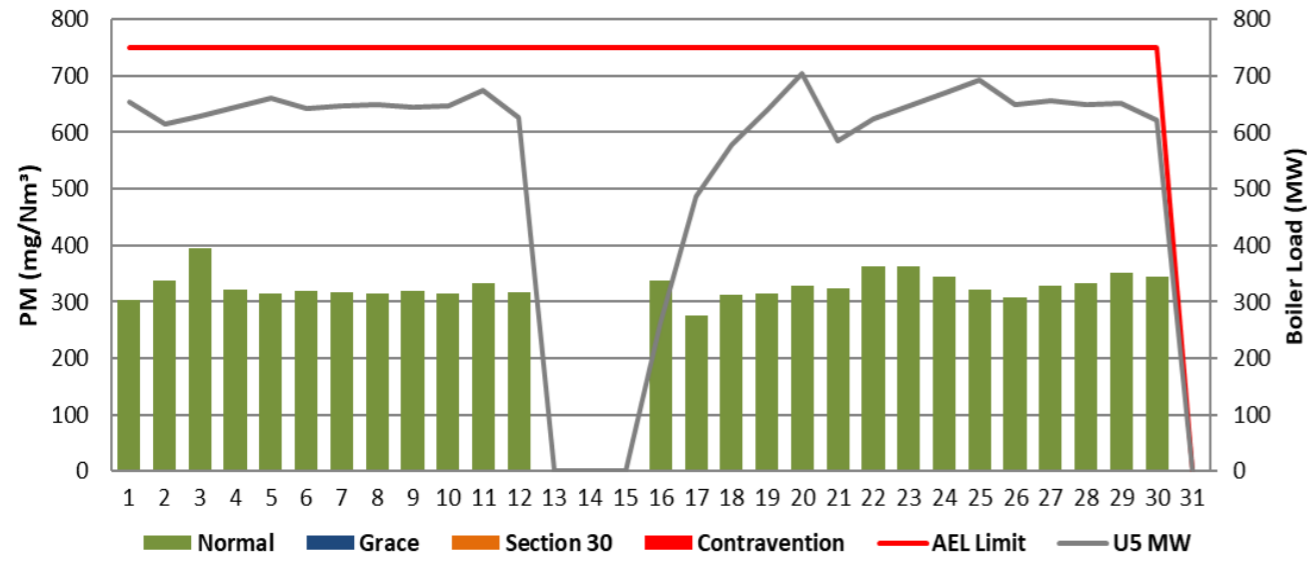
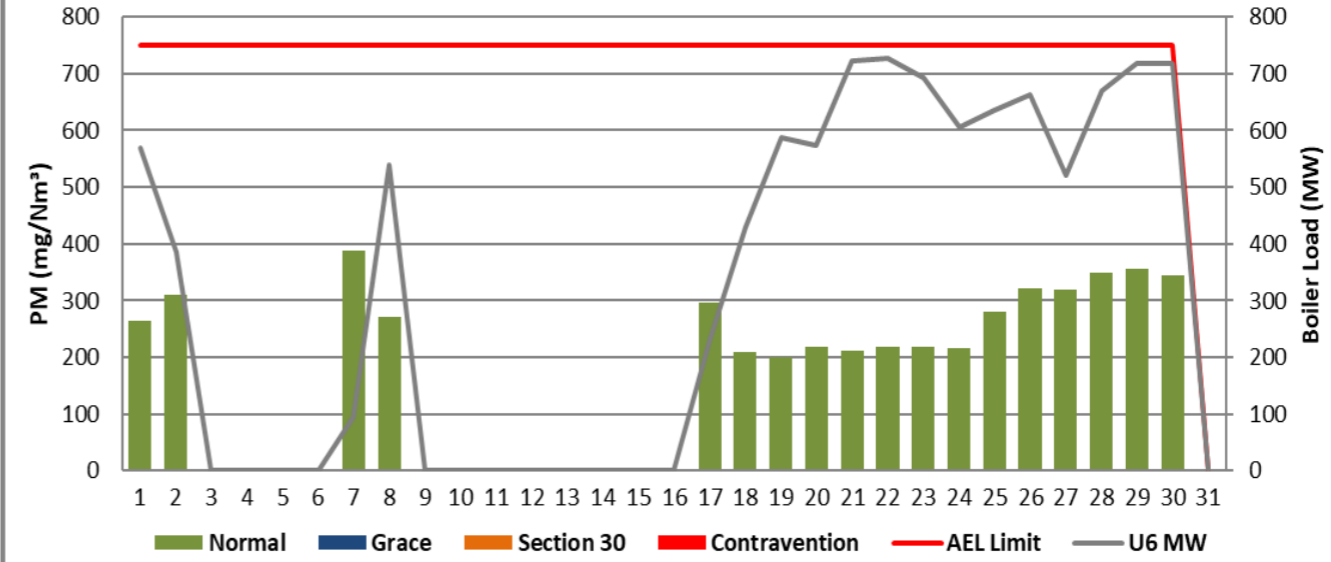


Figure 18: Medupi Unit 6 NOx Emissions - April 2023



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TABLE 6: MONTHLY TONNAGES FOR THE MONTH OF APRIL 2023

| Associated Unit/Stack | PM | SO ₂ | NO ₂ |
|-----------------------|--------------|-----------------|-----------------|
| Unit 1 | 79.1 | 5 502.3 | 836.6 |
| Unit 2 | 20.7 | 6 968.7 | 831.5 |
| Unit 3 | 66.2 | 5 116.1 | 686.8 |
| Unit 4 | off | off | off |
| Unit 5 | 54.4 | 5 169.0 | 667.2 |
| Unit 6 | 2.6 | 1 980.6 | 260.0 |
| SUM (Tons) | 223.0 | 24 736.7 | 3 282.1 |

TABLE 7: MONTHLY AVERAGES FOR THE MONTH OF APRIL 2023

| Associated Unit/Stack | Average PM (mg/Nm ³) | Average SO _x (mg/Nm ³) | Average NO _x (mg/Nm ³) |
|-----------------------|----------------------------------|---|---|
| Unit 1 | 38.4 | 2 651.4 | 403.9 |
| Unit 2 | 7.9 | 2 653.0 | 316.6 |
| Unit 3 | 32.3 | 2 411.1 | 323.7 |
| Unit 4 | off | off | off |
| Unit 5 | 27.2 | 2 530.4 | 327.8 |
| Unit 6 | 4.3 | 2 043.4 | 277.2 |

5. Continuous Emission Monitoring Systems (CEMS)

- Unit 1, 2, 3, 5 and 6 Continuous Emission Monitoring Systems were always in operation when the unit was on load.
- Investigations indicates that the exceedances where due to the following:
 - ✓ Correlation Test that was being conducted and the unit was required to be operated on full load for unit 1 on 26/04/2023.
 - ✓ Fabric Filter bag failures for Unit 1 and Unit 5 on 20/04/2023.

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TABLE 8: PERIODS DURING WHICH CEMS WAS INOPERATIVE

| Date | CEMS status | Comments |
|------|-------------|----------|
| N/A | N/A | N/A |

TABLE 9: CEMS MONITOR RELIABILITY PERCENTAGE (%)

| Associated Unit/Stack | PM | SO ₂ | NO ₂ | CO ₂ | O ₂ |
|-----------------------|------|-----------------|-----------------|-----------------|----------------|
| Unit 1 | 98.8 | 98.3 | 98.2 | 98.5 | 98.5 |
| Unit 2 | 98.1 | 97.9 | 97.8 | 97.9 | 97.6 |
| Unit 3 | 98.6 | 0 | 0 | 0 | 0 |
| Unit 4 | off | off | off | off | off |
| Unit 5 | 98.1 | 98.1 | 98.1 | 98.1 | 97.4 |
| Unit 6 | 98.2 | 96.5 | 96.1 | 72.9 | 94.7 |

Note: SO₂, O₂ and NO was Changed to a Unity Factor (1) for accurate reporting, there was a step change in the performance of the Unit 3 gas Monitor

6. CEMS Calibration certificates and equipment used for calibration.

A service provider was appointed to calibrate CEMS equipment at Medupi Power Station, calibration certificates to be made available upon request. The service appointed for the CEMS calibration is in a process of obtaining SANAS accreditation. Verification of the CEMS after calibration is conducted internally by Eskom.


7. Ambient Air Quality Monitoring Report

The Ambient Air Quality Monitoring and Dust fall-out report for April 2023 was e-mailed to the Licensing Authority.

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8. Visual inspection of the exterior walls of the fuel oil tanks and TVOC Estimation

Visual inspection was conducted and there were no leaks observed on the exterior walls of the fuel oil tanks.


TABLE 10: TOTAL VOLATILE ORGANIC COMPOUND (TVOC) FOR APRIL 2023

| | | |
|--|--|-------------------------|
|  | | |
| CALCULATION OF EMISSIONS OF TOTAL VOLATILE COMPOUNDS FROM FUEL OIL STORAGE TANKS* | | |
| Date: | Sunday, 30 April 2023 | |
| Station: | Medupi Power Station | |
| Province: | Limpopo Province | |
| Tank no. | 1-2 | |
| 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 <i>blue cells</i> below Choose from a dropdown menu in the <i>green cells</i> The total VOC emissions for the month are in the <i>red cells</i> IMPORTANT: Do not change <i>any</i> other cells without consulting the AQ CoE | | |
| MONTH: | April | |
| GENERAL INFORMATION: | | |
| | Data | Unit |
| Total number of fuel oil tanks: | 2 | NA |
| Height of tank:* | 14.2 | m |
| Diameter of tank: | 12 | m |
| Net fuel oil throughput for the month: | 3000 | tons/month |
| Molecular weight of the fuel oil: | 166.00 | Lb/lb-mole |
| METEROLOGICAL DATA FOR THE MONTH | | |
| | Data | Unit |
| Daily average ambient temperature | 20.60 | °C |
| Daily maximum ambient temperature | 27.37 | °C |
| Daily minimum ambient temperature | 13.11 | °C |
| Daily ambient temperature range | 10.46 | °C |
| Daily total insolation factor | 3.84 | kWh/m ² /day |
| Tank paint colour | <u>Aluminum/Specular</u> | NA |
| Tank paint solar absorbance | 0.39 | NA |
| FINAL OUTPUT: | | |
| | Result | Unit |
| Breathing losses: | 0.61 kg/month | |
| Working losses: | 0.09 kg/month | |
| TOTAL LOSSES (Total TVOC Emissions for the month): | 0.70 kg/month | |
| <small>*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.</small> | | |

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9. Air quality improvements initiatives and public education and awareness campaigns

No awareness campaigns for this month.

10. Complaints Register


TABLE 5: COMPLAINTS FOR THE MONTH OF APRIL 2023

| Source Code/ Name | Air pollution complaints received | Calculation of Impacts/ emissions associated with the incident | Date of complaint and date of response by the license holder | Results of investigation | Action taken to resolve the complaint |
|----------------------|-----------------------------------|---|--|--------------------------|---------------------------------------|
| N/A | No complaints received | N/A | N/A | N/A | N/A |

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Compiled by: Lutendo Murovhi Nemutamba Date: 18/12/2023
Environmental Officer

Verified by: Malose Langa [Signature] Date: 2023/12/20
System Engineer Boiler

Verified by: Nontuthuko Mpangase [Signature] Date: 2023/12/20
System Engineer C&I

Supported by: Mokgadi Dikgale [Signature] Date: 2023/12/21
Environmental Manager

Supported by: Jabulani Mkhathswa [Signature] Date: 2023/12/21
Engineering Group Manager

I Zweli Witbooi, declares that the information provided in this report is accurate and correct.

Yours sincerely

[Signature]
 Zweli Witbooi
GENERAL MANAGER: MEDUPI POWER STATION

Date: 2023/12/21

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