




	Air Quality Compliance Assurance Review at Matimba Power Station	Sustainability Division: Environmental Management
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Compiled by	Reviewed by	Approved by
		
Olga Makhalemele Senior Environmental Advisor	Kristy Langerman Manager: Air Quality Centre of Excellence	Deidre Herbst Eskom Environmental Manager
Date 23/11/2016	Date 23/11/2016	Date 24.11.2016

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Reviewed by:

Name	Designation
Olga Makhalemele	Senior Environmental Advisor

Received by:

Name	Designation
Rhulani Mathebula	Power Station Manager
Tshifhiwa Matamela	Environmental Manager
Christopher Mamabolo	Senior Environmental Advisor
Phuluso Masiagwala	Environmental Officer
Mpho Sinthumule	Environmental Officer
Johan Van Der Walt	Senior Technician Boiler Engineering
Jeoff Mofomme	Operating Manager
Ebrahim Patel	Senior Consultant, PEIC: Air Pollution Control
Rakesh Rampier	Senior Technologist

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EXECUTIVE SUMMARY

An Air Quality Compliance Assurance Review was undertaken at Matimba Power Station on 19-20 October 2016, in line with the assurance function of the Sustainability Division: Environmental Management and in an effort to assist the Business Unit in complying with air quality legislation. The objectives of the review were to determine compliance to air quality related legislative requirements and to identify areas of improvement. This assurance review was undertaken especially to verify the station’s compliance to the conditions in the Atmospheric Emission Licence number: 12/4/12L-W4/A3 dated 01 April 2015. The station is required to comply with emission limits as per the license condition, reporting, monitoring and other compliance conditions stipulated in the license.

Summary of findings as follows:

Actions must be tracked and closed to ensure compliance with AEL and they will be tracked on a monthly basis by AQCoE. The risk rating is as follows:

In terms of the overall opinion rating classification outlined in the Environmental Management Review Guideline (ENV 15 – R056) from Procedure for the categorisation of audit finding and rating of audits, reviews or assessments in Eskom division- table 8 (A&F 32-172), Matimba scores an overall score of 1.

1	The system of control is regarded as adequate and / or effective to achieve all the related business objectives. No or insignificant control deficiencies were identified.
2	Overall, the system of control is regarded as adequate and/or effective to achieve the related business objectives. However, control deficiencies were identified relating to some of the governance framework components of the system of control, which could affect the achievement of some of the related business objectives.
3	The system of control is regarded as adequate but ineffective to achieve the related business objectives. Most of the governance framework components of the system of control are regarded as ineffective, which results or could result in most of the related business objectives not being achieved. OR Overall, the system of control is regarded as inadequate to achieve the related business objectives. Most of the governance framework components of the system of control are regarded as inadequate, which results or could result in most of the related business objectives not being achieved.
4	The system of control is regarded as adequate but ineffective to achieve the related business objectives. Collectively, the governance framework components of the system of control are regarded as ineffective, which results or could result in all the related business objectives not being achieved. OR The system of control is regarded as inadequate to achieve the related business objectives. Collectively, the governance framework components of the system of control are regarded as inadequate, which results or could result in all of the related business objectives not being achieved.

The station is mainly in compliance with the AEL, however there was non-compliance such as fugitive dust standard exceedance for industrial limit for two sequential months for site EMT 05 and EMT 16 where the station must do the monitoring programme and submit to the authorities for approval.

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In addition, the following actions are required to ensure that compliance is maintained going forward:

Number	AEL condition	Action	Responsible Person	Due Date	Risk Rating
1	Condition 7.2: Maximum emission rates	Station to submit SO ₂ limit exceedance notification for Unit 1 (22 May 2016 until 24 May 2016) and Unit 2 (21-May 2016 to 24-May 2016).	Tshifhiwa Matamela	30 November 2016	2
2	Condition 7.2.1: Maximum emission rates and requirements	Postponement application of SO ₂ emission limit as results of several SO ₂ emission limit exceedances.	Tshifhiwa Matamela/Kristy Langerman	March 2017	2
3	Condition 7.5.1 Area and or line sources (Management and mitigation measures)	The station needs to implement the leak detection programme according to condition 7.5.1 and submit to LEDET Municipality The station is currently reporting on the leaks from fuel oil storage tanks and the Authorities requires additional information which must be implemented and reported to LEDET by not later than 15 November 2016.	Tshifhiwa Matamela	15 November 2016	2

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Summary of Recommendation actions:

The following are recommendations which will assist in ensuring compliance to the emission limits.

These recommendations should be driven by Matimba’s environmental department and/or the emissions management team.

Number	AEL condition	Recommendation	Responsibility	Due Date	Risk rating
1	Condition 4.4: General requirement for license holder	The station is to ensure that personnel are aware as to where the AEL is documented on the G-drive should it be requested	Operating Manager	30 December 2016	1
2	Condition 7.4.7: Are and line sources management and mitigation measures	The station is to have readily accessible documents that include dimensions of each storage vessels, analysis showing the capacity of each storage tanks, and maximum true vapour of the stored pressure liquids and also keep records for determination of through put of distillate fuel oil for each storage tanks for use in the report.	Tshifhiwa Matamela	30 December 2016	1

The following was recorded as good practice:

- The station has consistently maintained their PM emission limit within their 100mg/Nm³ limit and there are warning alarms when the PM emissions exceed 80mg/Nm³. There are precautionary measures taken when the emissions exceed the internal or warning alarm alert where the Shift manager will be notified and the unit is de-loaded.

It is the responsibility of the station to ensure that the actions are closed and proof of closure of the actions is sent to Air Quality Centre of Excellence on a monthly basis. The close out of findings will be categorised according to the following categories: Compliance with gap analysis actions; compliance with monitoring and reporting requirements; and fugitive dust emissions. Failure to close actions by their due date will trigger the escalated involvement of the power station manager.

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1. INTRODUCTION

Sustainability Division: Environmental Management, Air Quality Centre of Excellence (AQ CoE), represented by Olga Makhalemele, conducted an Air Quality Compliance Assurance Review at Matimba Power Station on 19-20 October 2016. The purpose of the review was to give assurance that Air Quality legislation and all air quality reporting procedures are being complied with.

Matimba Power Station was represented by: Tshifhiwa Matamela, Christopher Mamabolo, Phuluso Masiagwala, Mpho Sinthumule, Johan Van Der Walt, and Jeoff Mofomme.

Matimba will be expected to give feedback on findings monthly. This pertains to actions carried over from the desktop review that was issued in 2015/16 and from the current review. The outstanding actions from the 2015/16 desktop review will be tracked together with the action register for 2016/17.

2. OBJECTIVES AND SCOPE

The objective of the review was to determine compliance to air quality-related legislative requirements and identify potential areas of improvement.

3. REFERENCE DOCUMENTS

- Atmospheric Emission Licence for Matimba Power Station: 12/4/12L-W4/A3
- National Environmental Management: Air Quality Act (Act No 39 of 2004)
- Listed Activities and Associated Minimum Emission Standards identified in terms of Section 21 of NEM:AQA 39 of 200, 22 November 2013, No. 893
- National Ambient Air Quality Standards, 24 December 2009, No. 32816
- National Dust Control Regulations, 01 Nov 2013

4. ABBREVIATIONS

Abbreviation	Description
AEL	Atmospheric Emission Licence
AEMP	Atmospheric Emission Management Plan
AQ CoE	Air Quality Centre of Excellence
CEM	Continuous Emission Monitoring
MES	Minimum Emission Standards
NEM:AQA	National Environmental Management: Air Quality Act 39 of 2004
PM	Particulate Matter
PSM	Power Station Manager
SED	Sustainability Environmental Department

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Abbreviation	Description
LEDET	Limpopo Department of Economic Development Environment and Tourism
DEA	Department of Environmental Affairs

5. METHODOLOGY

A checklist was formulated and submitted to the station by the AQCoE three weeks before the site visit. The documents to be reviewed were made available by Matimba during the assurance review on 19-20 October 2016. Interviews were held with relevant personnel: Tshifhiwa Matamela, Christopher Mamabolo, Phuluso Masiagwala, Mpho Sinthumule, Johan Van Der Walt, and Jeoff Mofomme on the day of the assurance review. The opening meeting was conducted between Matimba's Management team on 19 October 2016 and the closing meeting was on 20 October 2016 where the summary of the findings were discussed.

6. AIR QUALITY COMPLIANCE GAP ANALYSIS RESULTS

6.1 ATMOSPHERIC EMISSION LICENCE CONDITIONS

The station was issued with a new Atmospheric Emission Licence on 01 April 2015, with which the station must comply. After the request of the postponement of the AEL emission limit, LEDET issued a revised AEL with inclusion of the revised emission limits by 01 July 2015. A copy of the license is available in the environmental folder on the G-drive and environmental office.

6.1.1 Atmospheric emission license holder details

All listed activities conducted at the site are included in the AEL and the station send the authorities details of the new PSM and the letter was send by 06 January 2016 were the contact details page was amended by LEDET.

6.1.2 Sampling and/or analysis requirements

The station is using 240-56242363 Emission Monitoring and Reporting Standard for their internal monitoring and sampling. Matimba is using Stacklab consultants for their PM correlation tests and SI Analytics for their gaseous parallel tests.

6.1.3 General requirements for licence holder

- G-drive is used as a media for communication at Matimba and the station saved their AEL on the G-drive where the station people have access to the license.

6.1.4 Annual payment of atmospheric emission licence processing fee

The station has not yet received the invoice to pay the annual payment for the AEL processing fee and it shall be paid as soon as the invoice is received.

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6.1.5 Raw material and products

- The station monitors their coal and fuel oil on a monthly basis. Matimba's is in compliance with the coal consumption for the period 01 April 2016 until 30 September 2016 against the allowable limit of 1 500 000 tons/month. Fuel oil amounts used are in compliance with condition 6.1 of the AEL which states a fuel oil consumption rate of 1200 tons/month except for April 2016 where there was an exceedance of 1385 tons/month. The station has notified the authorities of the fuel oil exceedances that occurred in April 2016 through the monthly April 2016 report.
- Monthly ash content consumption for the period 01 April 2016 to 30 September 2016 were checked for compliance against the limit of 30-40% and all ash content consumption for the period April 2016 until September 2016 were within this limit. The sulphur content for the period 01 April 2016 until 30 September 2016 is in compliance with the limit of 0.8-1.6% (See Appendix A).

6.1.6 Area and line source parameters

The station is receiving additional coal from Exxaro to accommodate Medupi's coal and the letter was submitted by the 26 April 2016 requesting the additional 3m in height from the limit of 5-15m allowable height at Matimba coal stockpile. Station has a check sheet (Dust handling plant state of plant check sheet) which is used to check the ESP and Flue gas conditioning plant to ensure it is operated, maintained in conformance with their design (Document number: PAO/180/011). SO₃ injection plant is operated continuously to improve the efficiency of the electrostatic precipitator.

6.1.7 Emission data accuracy

PM emissions are reported as daily averages and the station does not have any exceedances above 100mg/Nm³ as per condition 7.2 of the AEL from 01 April 2016 to 16 October 2016 (See Appendix B).

The station has implemented the QAL2 tests for gaseous analysers for all the units in November 2015 and the last correlations were done on 17 October 2014. The station has its own tool for calculation and to report on their emissions and does not use the implemented tool from Technology for both gaseous and PM daily emission averages. There were no exceedances of the PM and NO_x emission limits for the period of 01 April 2016 to 16 October 2016 therefore no section 30 incident reported.

SO₂ emissions were exceeded on several occasions and section 30 reports were submitted to the authorities (See Appendix F). The authorities rejected all the section 30 from May 2016 and regard them as exceedances rather than section 30 incidents. Now Matimba continues to send the notifications of the SO₂ exceedances to LEDET. All section 30 reports were submitted for April 2016 and May 2016. The station is to still submit the notification of the exceedance that happened when DEA rejected their section 30 which happened on Unit 1 by 22 May 2016 until 24 May 2016 and Unit 2 exceedance by 21-May 2016 to 24-May 2016. The station submitted all notification for SO₂ exceedances for June 2016, July 2016, August 2016 and September 2016. The authorities were notified on 26 August 2016 of the isokinetic sampling test to be conducted in 2016 at the station for unit 1-6.

The station submitted a table in the bi-annual report showing that the abatement equipment has utilisation of 100% in all the units except unit 6 with 83% utilisation which was reported to the authorities

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on 16 May 2016. The station reports the number of hours into synchronisation as per condition 7.2.7 when submitting their monthly emission reports.

6.1.8 Emission monitoring and reporting requirements

- Matimba is using Stack Lab for their PM correlation tests and SI Analytics for Gaseous parallel tests. Eskom has reviewed their procedure to ensure that they are in compliance with air quality legislation.
- The previous PM correlation tests were done on all units by 17 October 2014 and the station is currently busy with the 2016 PM correlation tests which are done every two years.
- Gaseous parallel tests were done on 14 October 2015 for all the units, report was sent by SI Analytics. The station decided to do the gaseous parallel tests together with the PM correlation tests in 2016 which will continuously be conducted on a two yearly basis.
- Maintenance of PM monitors is done on a monthly basis which includes cleaning of lenses and changing of filters is done on a three months basis.
- PM calibrations are done on an annual basis which includes the checking of the signal loop and maintenance
- Gas calibration tests are done on a two weekly basis
- Monitor availability for PM and gases were evaluated from 01 April 2016 until 16 October 2016 and the monitors were available above 90% for all the days on all the units (See appendix E).
- The station notified the authorities of the Isokinetic tests to be conducted for both PM correlations and gaseous parallel tests. The letter was sent to LEDET on 26 August 2016 for 2016 correlation tests.
- The station submitted the ambient air quality monitoring plan by 29 September 2016 which included the reason why the ambient monitoring should be at the upwind and downwind. Public awareness was conducted on 22 September 2016 which the primary school learners to educate them about air pollution. Head office is currently busy with Off-sets pilot project at KwaZamokuhle in the Hendrina which might be rolled out in all Eskom stations.

6.1.9 Area and line source management and mitigation measures

- **The station is to review their fugitive management plan to include the management of fugitive dust around the extension of the new ash dumps.**
- Station included the mitigation of gravel roads, coal stockpile, ash dump in their fugitive management plans which indicated the frequency and the distance covered.
- The station is currently monitoring on fugitive dust and the reports have been sent to the authorities on a monthly basis. The reports were evaluated for a period of 01 April 2016 to August 2016 and there were no exceedances of the industrial limit of 1200mg/m²/day in all the monitoring sites.

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- The station is to have readily accessible documents that include dimensions of each storage vessels, analysis showing the capacity of each storage tanks, and maximum true vapour of the stored pressure liquids and also keep records for determination of through put of distillate fuel oil for each storage tanks for use in the report.
- The station submitted the TVOC measurements and through put fuel oil data to the authorities on the 19 July 2016
- Matimba has storm water system that is effective for management of runoff water from coal stock yard, ash dump and fuel oil which is recovered through the dams.
- Eskom Internal Energy Efficiency (IEE) intervention to be implemented at Matimba Power Station which focus of the interventions to increase the power output and reduce the coal usage with a potential by means of achieving energy efficiency from the boiler, turbine, auxiliary power and primary energy (Report number: PM/M&V/NWU - 14/15 – 11437).
- The station had engagements with LEDET where the leak detection and repair programme is to be compiled and implemented for the fuel oil storage tanks. The station is currently reporting on the leaks from fuel oil storage tanks and the Authorities requires additional information which must be implemented and reported to LEDET by not later than 15 November 2016.

6.1.10 Routine reporting and record keeping

- There were no complaints from the public in the period 2016/17 financial year and the station uses the required register according to condition 7.6 of the AEL.
- The station submitted their annual report on the 23 May 2016 and there were no correlation report due to the fact that the previous correlation tests were done in October 2014.
- The station submits their monthly reports to the authorities on time each month.
- Station submitted their bi annual report on 12 July 2016 as per condition 7.7.2
- The station send their section 30 reports within allowable time of 14 days and should there be any significant incidents such as spillages, leakages or fires the authorities should be notified within 24 hours.
- The authorities were notified on 26 August 2016 of the isokinetic sampling test to be conducted in 2016 according to condition 7.8 A, B.
- The station currently sends notifications of the SO₂ exceedances to the authorities whenever they have exceedances.

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6.1.11 Investigations

Station submitted the following to the authorities:

1. Fugitive emission management plan by 02 October 2015
2. Operation and management plan (warm, hot, cold start-ups procedure) and unit shutdown for maintenance was submitted on 30 September 2015
3. Station conducted public education and awareness on 22 September 2016 and the plan was submitted by the 30 September 2016
4. Station submitted their ambient air quality management plan by 29 September 2016.

6.1.12 Disposal of Waste and Effluent Arising from Abatement Equipment Control Technology

The station's waste generated is disposed according as per waste management manifests for disposal of waste. The station uses waste management procedure (240-105776552) to manage their waste. The bottom ash is disposed of at the ash dam. Hazardous waste materials are taken to Holfontein by Roshcon.

6.2 MINIMUM EMISSION STANDARDS

6.2.1 Emission measurement

- All units have been fitted with gaseous monitors and the gaseous parallel tests are currently undertaken for 2016 to check the accuracy of the gaseous monitors on all the units. The previous gaseous parallel test was conducted in October 2015. The PM correlation tests were last conducted in October 2014 and currently the station is conducting the PM correlations for 2016. The station will do PM correlations and gas parallel test every two years.
- The availability of PM for the period 01 April 2016 to 16 October 2016 was 100% for all the units (See appendix E). And the gaseous monitor's availability was 100% for unit 1-3, above 90% for unit 4, 5, 6.

6.2.2 Reporting Requirements

- The annual report included the name, description and license reference number of the plant as reflected in the AEL.
- The station is to ensure that the normal operating conditions were maintained during the emission tests by declaring on the correlation report and send to the authorities together with their annual report by May 2017. The previous correlation report was signed by the consultant and the last correlations were done in October 2014.
- The total volumetric flow of gas, expressed in normal cubic meters per unit time and mass flow being emitted by the listed activity or activities measured during the emission test, as the average of at least three measurements, was included in the report.
- The concentration or mass of pollutant for which emissions standards have been set in the MES emitted by listed activity as the average of at least three measurements; each measured over a minimum sample period of 60 minutes and a maximum of 8 hours to obtain a representative sample was included in the report.

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- The station did not send the results of the correlation test carried out to verify the accuracy of the CEMS for 2015/16 year because there were no correlations done in that period. The station is to include the latest tests with the 2016/17 annual report due by 01 June 2017.

6.3 NATIONAL DUST CONTROL REGULATIONS

Matimba is currently monitoring fugitive emissions and reports are sent to the licensing authority on a monthly basis. The station latest report of April 2016 to August 2016 was evaluated for non-compliances against the dust fall standard and there were no exceedances on all the monitoring stations against industrial limit of 1200mg/m²/day.

6.4 NATIONAL ENVIRONMENTAL MANAGEMENT: AIR QUALITY ACT

A new Atmospheric Emission Licence was sent to Matimba on 01 July 2015.

6.5 MUNICIPAL BYLAWS

There are no municipal bylaws at Waterberg.

7. PLANT WALK-DOWN

- The station must install additional dust buckets around the new extension of the ash dump which is still to be commissioned and the date has not been communicated. The station is to install also the extra water sprinklers as a mitigation measure for dust suppression on the extension of the new ash dump.
- The stack lifts are working and the gaseous and PM monitors are in place and calibrations have been done regularly according to the standard and reporting procedure.
- The station has implemented alarms on the screens in the control room which gives a warning when the PM emissions are close to exceeding the emission limit of 100mg/Nm³. The PM limit internally is set at 80mg/Nm³ and the station must start to de load after an hour if the limit of 100 mg/Nm³ is reached. The station installed alarms in the control room to monitor the SO₂ and NO₂ gaseous emissions.
- The station is to create awareness to illustrate to the operators that the AEL is stored on the G-drive so that the personnel can easily access it when on request.

8. CONCLUSION

A few areas of improvement have been identified. The station is to provide feedback to the Air Quality Centre of Excellence on a monthly basis on the close-out of the findings. Process to request postponement of the Minimum Emission Standards for the SO₂ limit has commenced between AQCoE and DEA. PM and NO_x daily average emissions were within the limit for the period 01 April 2016 to 16 October 2016. There were no exceedances of the dust-fall limit for all the monitoring sites for period April 2016 to August 2016. Matimba has done exceptionally well in terms of reporting, engagements with LEDET and also compliance with their AEL.

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8.1 RATING

In terms of the overall opinion rating classification outlined in the Environmental Management Review Guideline (ENV 15 – R056) from Procedure for the categorisation of audit finding and rating of audits, reviews or assessments in Eskom division- table 8 (A&F 32-172), Matimba scores an overall score of 1.

1	The system of control is regarded as adequate and / or effective to achieve all the related business objectives. No or insignificant control deficiencies were identified.
2	Overall, the system of control is regarded as adequate and/or effective to achieve the related business objectives. However, control deficiencies were identified relating to some of the governance framework components of the system of control, which could affect the achievement of some of the related business objectives.
3	The system of control is regarded as adequate but ineffective to achieve the related business objectives. Most of the governance framework components of the system of control are regarded as ineffective, which results or could result in most of the related business objectives not being achieved. OR Overall, the system of control is regarded as inadequate to achieve the related business objectives. Most of the governance framework components of the system of control are regarded as inadequate, which results or could result in most of the related business objectives not being achieved.
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The station is mainly in compliance with the AEL and there are no exceedances of the dust-fall limit for all monitoring sites for the period April 2016 to August 2016. Matimba has done exceptionally well in terms of reporting, engagements with LEDET and also compliance with their AEL.

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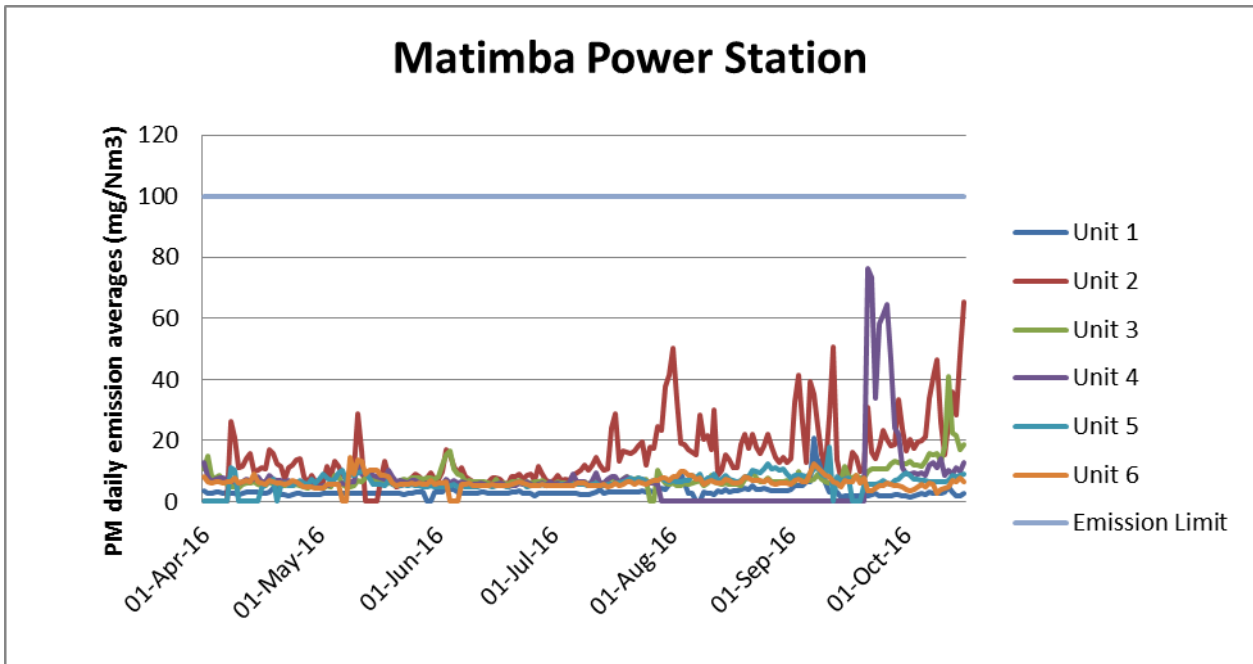
9. APPENDICES**APPENDIX A: Raw materials and products consumption rates (01 April 2016 - 30 September 2016)**

Month	Coal burnt limit	Coal Burnt (tons)	Ash in coal limit (% Dry ash)	Ash in Coal (% Dry Base)	Sulphur in coal (Sulphur (%)	Fuel oil target	Fuel Oil (tons)
Apr-16	1500000	1081640	30-40	30.76	0.8-1.6	1.3	1200	1385
May-16	1500000	1227514	30-40	31.21	0.8-1.6	1.3	1200	869
Jun-16	1500000	1130687	30-40	31.7	0.8-1.6	1.3	1200	389
Jul-16	1500000	1229103	30-40	31.60	0.8-1.6	1.2	1200	742
Aug-16	1500000	1053450	30-40	31.36	0.8-1.6	1.2	1200	212
Sept-16	1500000	1031556	30-40	32.35	0.8-1.6	1.2	1200	-

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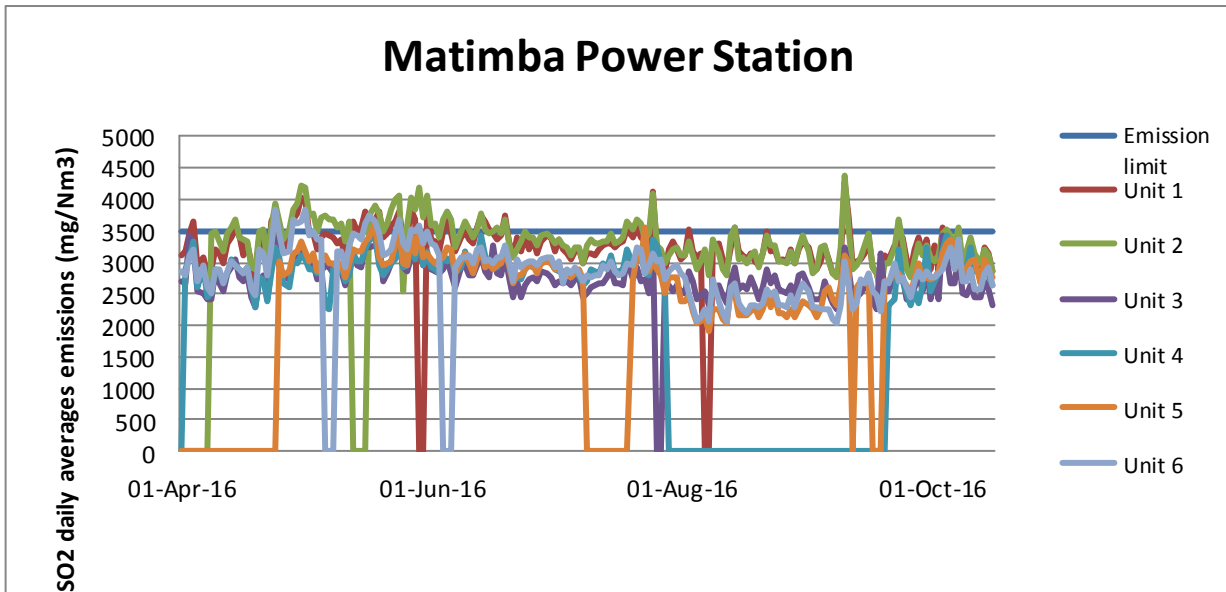
APPENDIX B: Emission daily averages for PM (01 April 2016- 16 October 2016)



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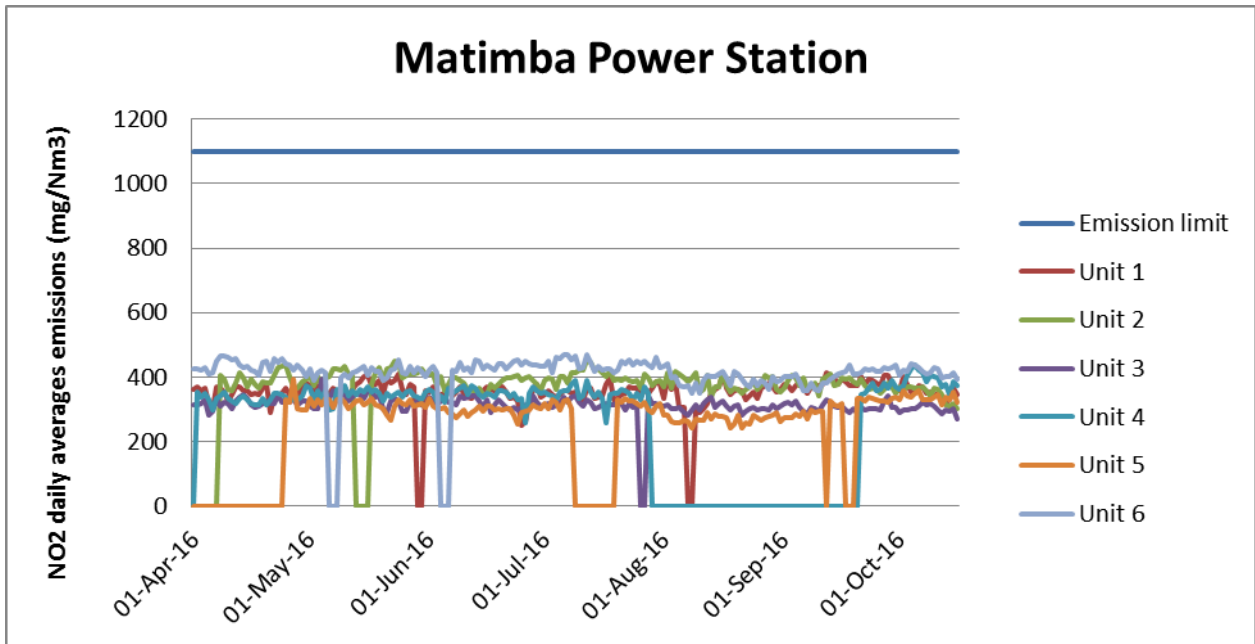
APPENDIX C: Emission daily averages for SO₂ (01 April 2016- 16 October 2016)



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APPENDIX D: Emission daily averages for NOx (01 April 2016- 16 October 2016)



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APPENDIX E: Availability of CEMS monitors (01 April 2016- 16 October 2016)

Availability of monitor	PM	SOx	NOx	CO	CO ₂	O ₂	H ₂ O
Unit 1	100%	100%	100%	100%	100%	100%	100%
Unit 2	100%	100%	100%	100%	100%	100%	100%
Unit 3	100%	100%	100%	100%	100%	100%	100%
Unit 4	100%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%
Unit 5	100%	93.9%	93.9%	93.9%	93.9%	88.4%	100%
Unit 6	100%	99.4%	99.4%	100%	100%	100%	99.4%

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APPENDIX F: Section 30 reporting (01 April 2016- 16 October 2016)

No	Date	Unit	start date	End date	Number of days	Section 30/Non-compliance	Date reported	Closed/ Open	Comments
1	Apr-16	unit 1	04-Apr-16	04-Apr-16	1days	non	non	closed	no section 30
2		unit 1	14-Apr-16	14-Apr-16	1days	non	non	closed	no section 30
3		unit 2	13-Apr-16	14-Apr-16	2days	non	non	closed	no section 30
4		Unit1	23-Apr-16	24-Apr-16	2days	non	non	closed	no section 30
5		unit 2	21-Apr-16	21-Apr-16	1days	non	non	closed	no section 30
6		unit 2	23-Apr-16	25-Apr-16	3days	Section 30	26-Apr-16	closed	section 30
7		unit 6	24-Apr-16	24-Apr-16	1days	non	non	closed	no section 30
8		unit 1	28-Apr-16	01-May-16	4days	Section 30	03-May-16	Closed	section 30
1	May-16	unit 2	27-Apr-16	03-May-16	7days	Section 30	05-May-16	closed	section 30
2		unit 6	28-Apr-16	01-May-16	4days	Section 30	05-May-16	closed	section 30
3		unit 2	05-May-16	10-May-16	5days	Section 30	09-May-16	closed	section 30
4		unit 1	13-May-16	13-May-16	1days	non	non	closed	no section 30
5		unit 1	15-May-16	19-May-16	5days	Section 30	19-May-16	closed	section 30
6		unit 2	12-May-16	12-May-16	1days	non	non	closed	no section 30
7		unit 2	17-May-16	19-May-16	3days	Section 30	19-May-16	closed	section 30
8		unit 2	21-May-16	24-May-16	4days	Section 30		Open	section 30
9		unit 6	16-May-16	18-May-16	3days	Section 30	19-May-16	closed	section 30
10		unit 6	24-May-16	24-May-16	1days	non	non	closed	no section 30
11		unit 6	27-May-16	27-May-16	1days	non	non	closed	no section 30
12		unit 6	29-May-16	29-May-16	1days	non	non	closed	no section 30
13		unit 5	18-May-16	18-May-16	1days	non	non	closed	no section 30
14		unit 5	29-May-16	29-May-16	1days	non	non	closed	no section 30
15		unit 2	26-May-16	02-Jun-16	8days	Section 30	31-May-16	Closed	section 30
16		unit 1	22-May-16	24-May-16	3days	Section 30		Open	section 30
17		unit 1	27-May-16	28-May-16	2days	non	non	closed	no section 30
18		unit 1	31-May-16	31-May-16	1days	non	non	closed	no section 30
1	Jun-16	unit 2	04-Jun-16	06-Jun-16	3days	Section 30	07-Jun-16	closed	section 30
2		unit 2	09-Jun-16	10-Jun-16	2days	Section 30	non	closed	no section 30
3		unit 2	12-Jun-16	14-Jun-16	3days	Section 30	15-Jun-16	closed	section 30
4		unit 2	17-Jun-16	17-Jun-16	1days	non	non	closed	no section 30
5		unit 2	19-Jun-16	19-Jun-16	1days	non	non	closed	no section 30
6		unit 1	04-Jun-16	05-Jun-16	2days	non	non	closed	no section 30
7		unit 1	12-Jun-16	15-Jun-16	4days	Section 30	07-Jun-16	closed	section 30
8		unit 1	19-Jun-16	19-Jun-16	1days	non	non	closed	no section 30
1	Jul-16	unit 5	23-Jul-16	23-Jul-16	1days	non	non	closed	no section 30
2		unit 1	19-Jul-16	19-Jul-16	1days	non	non	closed	no section 30
3		unit 1	21-Jul-16	21-Jul-16	1days	non	non	closed	no section 30
4		unit 1	25-Jul-16	25-Jul-16	1days	non	non	closed	no section 30
5		unit 2	19-Jul-16	22-Jul-16	4days	Section 30	22-Jul-16	closed	section 30
6		unit 2	25-Jul-16	25-Jul-16	1days	non	non	closed	no section 30
1	Aug-16	unit 1	03-Aug-16	03-Aug-16	1days	non	non	closed	no section 30
2		unit 1	14-Aug-16	14-Aug-16	1days	non	non	closed	no section 30
3		unit 2	14-Aug-16	14-Aug-16	1days	non	non	closed	no section 30
1	Sep-16	unit 1	10-Sep-16	11-Sep-16	2days	non	non	closed	no section 30
2		unit 2	10-Sep-16	11-Sep-16	2days	non	non	closed	no section 30
3		unit 2	23-Sep-16	23-Sep-16	1days	non	non	closed	no section 30
1	Oct-16	unit 2	05-Oct-16	05-Oct-16	1days	non	non	closed	no section 30
2		unit 2	08-Oct-16	08-Oct-16	1days	non	non	closed	no section 30
3		unit 1	04-Oct-16	04-Oct-16	1days	non	non	closed	no section 30

CONTROLLED DISCLOSURE

When downloaded from the EDS database, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorized version on the database.