



**Waterberg**  
District Municipality

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*on the Go for Growth*

This Atmospheric Emission Licence issued to **Eskom Matimba Power Station** in terms of section 41(1)(a) of the National Environmental Management: Air Quality Act, 2004 (Act No. 39 of 2004) ("the Act"), in respect of **Subcategory 1.1, 2.4 and 5.1**. The Atmospheric Emission Licence has been issued on the basis of information provided in the company's application dated **30/07/2021** and information that became available during processing of the application.

The Atmospheric Emission Licence is valid until **30 September 2026**.

The reason issuance of the current licence is **Renewal and Variation**.

The Atmospheric Emission Licence is issued subject to the conditions and requirements set out below which form part of the Atmospheric Emission Licence and which are binding on the holder of the Atmospheric Emission Licence ("the holder").

1. ATMOSPHERIC EMISSION LICENCE ADMINISTRATION	
Name of the Licensing Authority	Waterberg District Municipality
Atmospheric Emission Licence Number	<b>H16/1/13-WDM05</b>
Atmospheric Emission Licence Issue Date	<b>31 October 2021</b>
Atmospheric Emission Licence Type	Atmospheric Emission Licence
Review Date, not later than	When deemed necessary by the Licencing Authority
Renewal Date	<b>Six (6) months before expiry date</b>
Name of Air Quality Officer	<b>Mr. Stanley Koenait</b>
Air Quality Officer Contacts	<b>Tel: 014 718 3331</b> <b>Mobile: 082 581 2998</b>

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<b>2. ATMOSPHERIC EMISSION LICENCE HOLDER DETAILS</b>	
Enterprise Name	Eskom Holdings SOC Limited - Matimba Power Station
Enterprise Registration Number (Registration Numbers if Joint Venture)	2002/015527/06
Registered Address	Farm Grootestryd 465 Lephalale Limpopo Province 0555
Telephone Number (General)	011-800-2414 Extension: 2414
Industry Sector	<b>35101</b> (Description: Generation of electricity (for production of electricity through incineration of waste, see 3821))
Contact Name	Mrs Caroline Obakeng Mabotja
Telephone Number	011-763-8402/8084
Cell Phone Number	079-522-4773
Fax Number	014-763-3616
Email Address	MabotjO@eskom.co.za
After Hours Contact Details	079-522-4773
Land Use Zoning as per Town Planning Scheme	Agricultural / Heavy industry

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<b>3. LOCATION AND EXTENT OF PLANT</b>	
Physical Address of the Premises	Farm Grootestryd 465, Lephahale
Description of Site (Erf)	Most of the land surrounding Matimba Power Station is agricultural land, mainly used for game farming. Marapong is 1 km north-east of Matimba, Onverwacht is 6 km east-south-east of Matimba, and Lephahale is 13 km east of Matimba. Grootegeluk coal mine is 6.5 km west of Matimba and Matimba's ash dump is 3.4 km south of the power station. Medupi Power Station is 6 km south-west of Matimba.
Coordinates of Approximate Centre of Operations	Lat:-23.66750000 Long: 27.61666667
Extent (km <sup>2</sup> )	4.25
Elevation Above Level (m)	880
Province	Limpopo
Metropolitan/District Municipality	Waterberg District Municipality
Local Municipality	Lephahale Local Municipality
Designated Priority Area	Waterberg Bojanala Priority Area

### Section 3.2: Description of Surrounding Land Use within 5 KM Radius

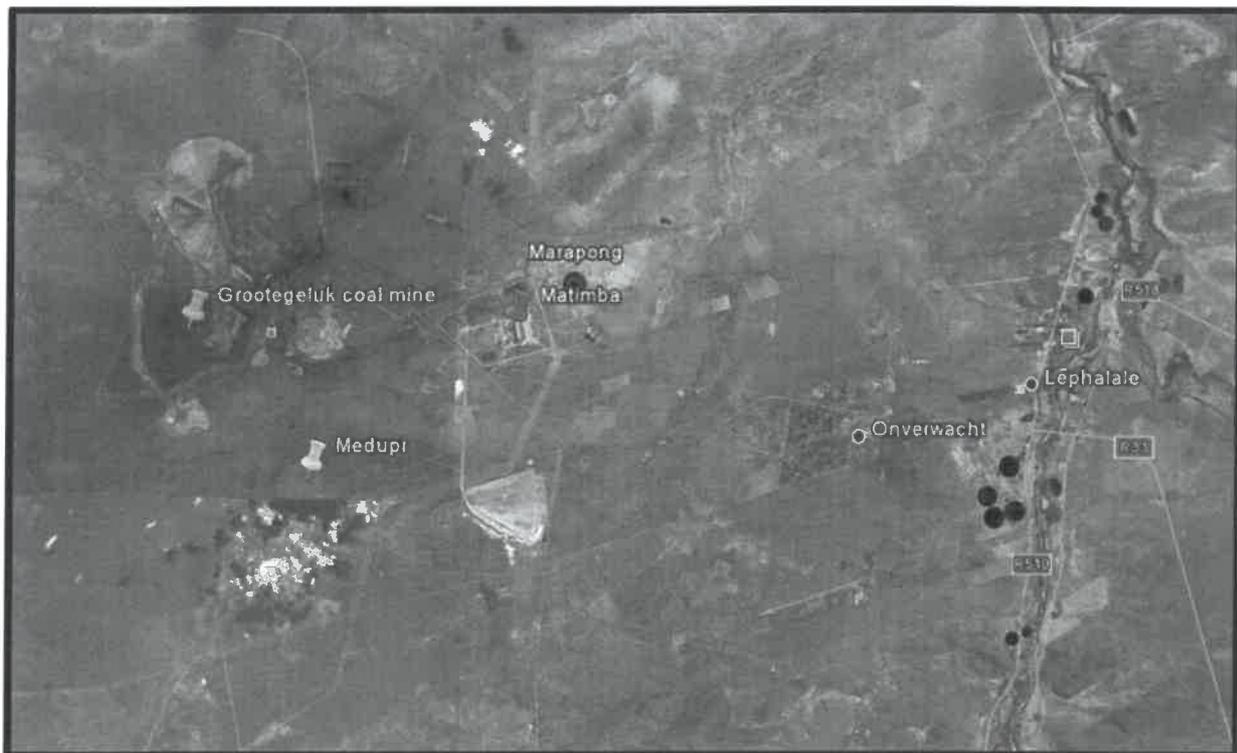


Figure 1: Eskom Matimba power station Aerial map

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#### 4. GENERAL CONDITIONS

##### 4.1. Process and ownership changes

The holder of the atmospheric emission licence must ensure that all unit processes and apparatus used for the purpose of undertaking the listed activity in question, and all appliances and mitigation measures for preventing or reducing atmospheric emissions, are at all times properly maintained and operated.

No building, plant or site of works related to the listed activity or activities used by the licence holder shall be extended, altered or added to the listed activity without an environmental authorisation from the competent authority. The investigation, assessment and communication of potential impact of such an activity must follow the basic assessment procedure as prescribed in the Environmental Impact Assessment Regulations published in terms of section 24(5) of the National Environmental Management Act, 1998 (Act No. 107 of 1998) (NEMA), as amended.

Any changes in processes or production increases, by the licence holder, will require prior approval by the licensing authority.

Any changes to the type and quantities of input materials and products, or to production equipment and treatment facilities will require prior written approval by the licensing authority.

The licence holder must, in writing, inform the licensing authority of any change of ownership of the enterprise. The licensing authority must be informed within 30 (thirty) days after the change of ownership.

The licence holder must immediately on cessation or decommissioning of the listed activity inform, in writing, the licensing authority.

##### 4.2. General duty of care

The holder of the licence must, when undertaking the listed activity, adhere to the duty of care obligations as set out in section 28 of the NEMA.

The licence holder must undertake the necessary measures to minimize or contain the atmospheric emissions. The measures are set out in section 28(3) of the NEMA.

Failure to comply with the above condition is a breach of the duty of care, and the licence holder will be subject to the sanctions set out in section 28 of the NEMA.

##### 4.3. Sampling and/or analysis requirements

Measurement, calculation and/or sampling and analysis shall be carried out in accordance with any nationally or internationally acceptable standard in line with (Annexure A) of NEMAQA as amended. A different method may be acceptable to the licensing authority as long as it has been consulted and approved by the National Air Quality Officer to the satisfactory documentation necessary in confirming the equivalent test reliability, quality and equivalence of analyses.

The licence holder is responsible for quality assurance of methods and performance. Where the holder of the licence uses external laboratories for sampling or analysis, accredited laboratories shall be used.

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#### 4.4. General requirements for licence holder

The licence holder is responsible for ensuring compliance with the conditions of this licence by any person acting on his, her or its behalf, including but not limited to, an employee, agent, sub-contractor or person rendering a service to the holder of the licence.

The licence does not relieve the licence holder to comply with any other statutory requirements that may be applicable to the carrying on of the listed activity.

A copy of the licence must be kept at the premises where the listed activity is undertaken. The licence must be made available to the environmental management inspector representing the licensing authority who requests to see it.

The licence holder must inform, in writing, the licensing authority of any change to its details including the name of the emission control officer, postal address and/or telephonic details.

The license holder must report and submit annual emissions for the emissions inventory on the National Atmospheric Emission Inventory System (NAEIS) for the preceding year in terms of GNR 283 in Government Gazette 38633 of 02 April 2015.

The license holder must comply with the National greenhouse Gas Emission Reporting Regulations No. 40762 Government Gazette 03 April 2017 as amended.

#### 4.5. Statutory obligations

The licence holder must comply with the obligations as set out in Chapter 5 of the Act as amended.

### 5. NATURE OF PROCESS

#### 5.1. Process description

The coal is conveyed to tube ball mills. Primary air conveys the pulverized coal from the mills to burners. Forced draught fans supply the secondary air to aid combustion, and the mixture is then blown into the boiler furnace. The water inside the tubing, which form the boiler furnace walls, absorbs the heat released by the burning coal. The steam is led through a high-pressure turbine to spin the turbine/generator combination at a speed governed to 3 000 r/min. After exhausting some of the energy of the steam in the high-pressure turbine, the steam returns to the boiler and is reheated in the re-heater and passed through the intermediate-pressure turbine and then directly into the two low-pressure turbines. The generator rotor, coupled to the turbine shaft, is a cylindrical electro-magnet enclosed in a gas-tight housing. Electricity passes from the stator windings to a transformer raising the voltage from 20 kV to the transmission voltage of 400 kV.

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## 5.2. Facility Wide Listed Activities with Regulatory Applicability

List of all associated Listed Activities, as published in terms of Section 21 of the AQA, authorised to be conducted at the premises by the licence holder:

Listed Activity	Description	Application
Subcategory 1.1: Solid Fuel Combustion Installation	Solid fuels (excluding biomass) combustion installations used primarily for steam raising or electricity generation.	All installations with design capacity equal to or greater than 50 MW heat input per unit, based on the lower calorific value of the fuel used.
Subcategory 2.4: Storage and Handling of Petroleum Products	Petroleum product storage tanks and product transfer facilities, except those used for liquefied petroleum gas.	All permanent immobile liquid storage facilities at a single site with a combined storage capacity greater than 1000 cubic meters.
Subcategory 5.1: Storage and Handling of Ore and Coal	Storage and handling of ore and coal not situated on the premises of a mine or works as defined in the Mines Health and Safety Act 29/1996.	Locations designed to hold more than 100 000 tons.

## 5.3. Graphical process information

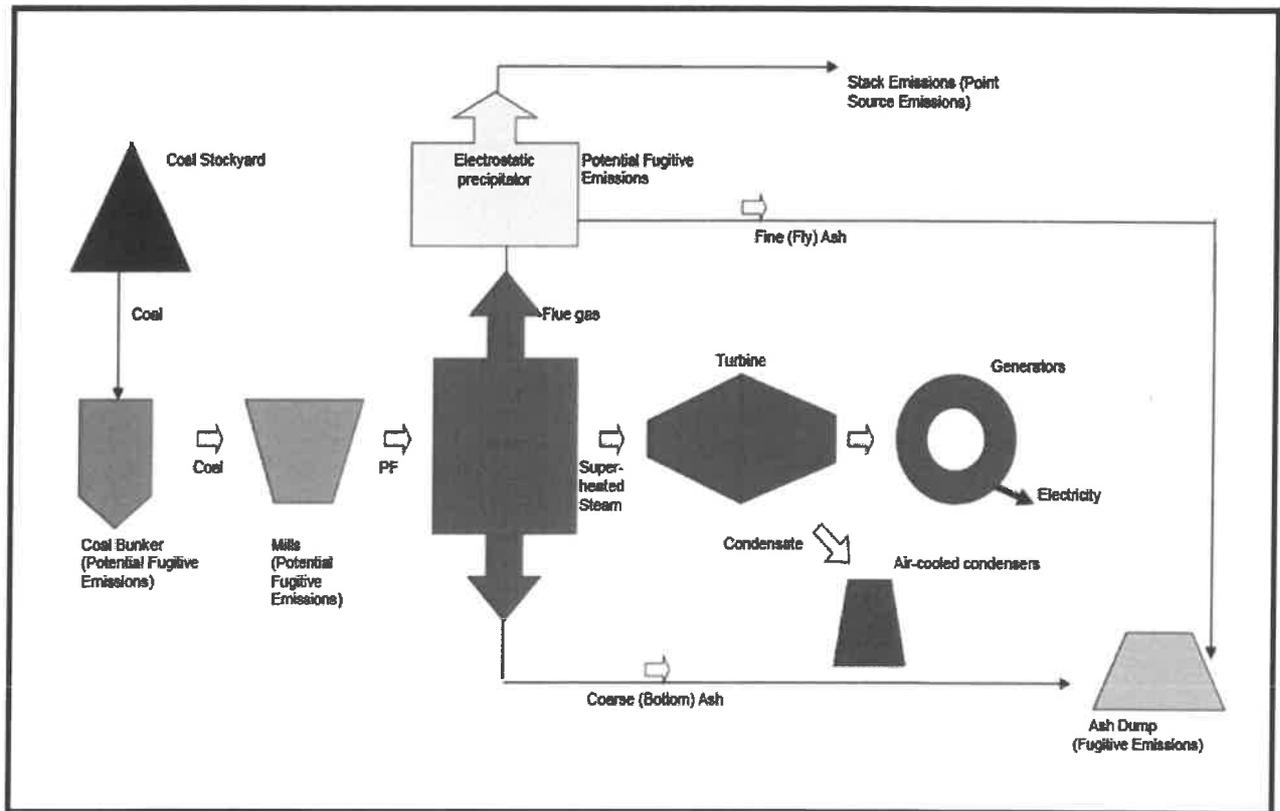


Figure 2: Eskom Matimba Power Station Process Flow

## 5.4 Unit Processes

List of all unit processes associated with the listed activities to be undertaken at the site of work

Emission Unit ID	Unit Process	Unit Process Function	Batch or Continuous
EU0001	Boiler	Pulverised fuel boiler burning coal	Continuous
EU0002	Boiler	Pulverised fuel boiler burning coal	Continuous

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EU0003	Boiler	Pulverised fuel boiler burning coal	Continuous
EU0004	Boiler	Pulverised fuel boiler burning coal	Continuous
EU0005	Boiler	Pulverised fuel boiler burning coal	Continuous
EU0006	Boiler	Pulverised fuel boiler burning coal	Continuous
EU0007	Storage Tank	Storage of fuel oil for unit 1-3	Batch
EU0008	Storage Tank	Storage of fuel oil for units 4-6	Batch
EU0015	Ash Dump	Dry ash disposal facility	Continuous
EU0016	Open Storage Pile	Stockpile for the storage of coal on site	Continuous
EU0030	Unpaved Roads	Unpaved Roads	Continuous

### 5.5 Hour of Operation

Emission Unit ID	Unit Process	Operating Hours	No. Days Operation/year
EU0001	Boiler	00:00 – 24:00	365
EU0002	Boiler	00:00 – 24:00	365
EU0003	Boiler	00:00 – 24:00	365
EU0004	Boiler	00:00 – 24:00	365
EU0005	Boiler	00:00 – 24:00	365
EU0006	Boiler	00:00 – 24:00	365
EU0007	Storage Tank	00:00 – 24:00	365
EU0008	Storage Tank	00:00 – 24:00	365
EU0015	Ash Dump	00:00 – 24:00	365
EU0016	Open Storage Pile	00:00 – 24:00	365
EU0030	Unpaved Roads	00:00 – 24:00	365

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**6. RAW MATERIALS AND PRODUCTS**

**6.1. Raw materials used**

Raw Material Type	Design Permitted Consumption Rate (Quantity)	Units (quantity/period)
Bituminous Coal	1500000	tons/month
Fuel Oil	1200	tons/year
Water	4800	mega litres/year

**6.2. Production and By Product rates**

Product Name	Design Permitted Production Capacity (Quantity)	Units (quantity/period)
Electricity	4000	MW

**6.3. By Product Rates**

Product Name	Design Permitted Production Capacity (Quantity)	Units (quantity/period)
Ash	6570000	Tons/Year

**6.4. Materials used in energy sources**

Materials for Energy Source	Designed Consumption Rate (tons/month)	Actual Consumption Rate (tons/month)	Sulphur % Content	Ash % Content
Bituminous Coal	1500000	1500000	1.6%	40%
Fuel Oil	1200	1200	3.5	0.1%

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6.5. Emission Units

6.5.1. Emission Unit - Stack Parameters (Point Source)

EU Code	Stack Name	Latitude (decimal degrees) South	Longitude (decimal degrees) East	Height of Release Above Ground (m)	Height Above Nearby Building (m)	Diameter at Stack Tip / Vent Exit (m)	Actual Gas Exit Temperature (°C)	Actual Gas Volumetric Flow (m³/hr)	Actual Gas Exit Velocity (m/s)	Emission Hours	Type of Emission (Continuous / Batch)
EU0001	SV 01	-23.6676	27.6108	250	0	7.42	135	916	21.18	24	Continuous
EU0002	SV 02	-23.6676	27.6108	250	0	7.39	135	800	16.17	24	Continuous
EU0003	SV 03	-23.6676	27.6108	250	0	7.38	135	824	16.64	24	Continuous
EU0004	SV 04	-23.6699	27.6113	250	0	7.35	135	826	19.47	24	Continuous
EU0005	SV 05	-23.6699	27.6113	250	0	7.35	135	767	14.91	24	Continuous
EU0006	SV 06	-23.6699	27.6113	250	0	7.37	135	791	16.00	24	Continuous



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6.5.2. Emission Unit - Area/Line Source

EU Code	Area/Line Source Name	Area/Line Description	Length of Area (m)	Width of Area (m)	Emission Hours	Type of Emission (Continuous / Batch)
EU0007	Storage Tank Area	Storage of fuel oil for unit 1-3	9.53	13.34	24	Batch
EU0008	Storage Tank Area	Storage of fuel oil for units 4-6	9.53	13.34	24	Batch
EU0015	Ash Dump	Dry ash disposal facility	2500	2000	24	Continuous
EU0016	Coal Stock Yard	Stockpile for the storage of coal on site	500	400	24	Continuous
EU0030	Unpaved road	Unpaved road	N/A	N/A	24	Continuous

\*Provide the dimensions for the unpaved roads three months after AEL is issued.

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7.1 Control Devices

Associated EU Code	Emission Unit			Control Device							
	Appliance / Process Equipment Number	Appliance Serial Number	Appliance Type / Description	Control Device Name and Model	Control Device Manufacture Date	Commission Date	Date of Significant Modification / Upgrade	Device Type	Design Capacity	Minimum Control Efficiency (%)	Minimum Utilisation (%)
EU0001	Electrostatic Precipitator	N/A	Simon Carves Electrostatic Precipitator	Electrostatic Precipitator	1985	1985	N/A	Electrostatic Precipitator	99.77	99	100
	Sulphur Plant	N/A	Chemithon Flue gas conditioning plant	Sulphur Plant	2008	2008		Sulphur Plant	99	99	100
EU0002	Electrostatic Precipitator	N/A	Simon Carves Electrostatic Precipitator	Electrostatic Precipitator	1985	1985	N/A	Electrostatic Precipitator	99.77	99	100
	Sulphur Plant	N/A	Chemithon Flue gas conditioning plant	Sulphur Plant	2008	2008		Sulphur Plant	99	99	100
EU0003	Electrostatic Precipitator	N/A	Simon Carves Electrostatic Precipitator	Electrostatic Precipitator	1985	1985	N/A	Electrostatic Precipitator	99.77	99	100
	Sulphur Plant	N/A	Chemithon Flue gas conditioning plant	Sulphur Plant	2008	2008		Sulphur Plant	99	99	100
EU0004	Electrostatic Precipitator	N/A	Simon Carves Electrostatic Precipitator	Electrostatic Precipitator	1985	1985	N/A	Electrostatic Precipitator	99.77	99	100
	Sulphur Plant	N/A	Chemithon Flue gas conditioning plant	Sulphur Plant	2008	2008		Sulphur Plant	99	99	100
EU0005	Electrostatic Precipitator	N/A	Simon Carves Electrostatic Precipitator	Electrostatic Precipitator	1985	1985	N/A	Electrostatic Precipitator	99.77	99	100
	Sulphur Plant	N/A	Chemithon Flue gas conditioning plant	Sulphur Plant	2008	2008		Sulphur Plant	99	99	100
EU0006	Electrostatic Precipitator	N/A	Simon Carves Electrostatic Precipitator	Electrostatic Precipitator	1985	1985	N/A	Electrostatic Precipitator	99.77	99	100
	Sulphur Plant	N/A	Chemithon Flue gas conditioning plant	Sulphur Plant	2008	2008		Sulphur Plant	99	99	100

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7.2. Reporting Group / Emission Unit (Point Sources) – maximum emission rates (under normal working conditions of 10% O<sub>2</sub>, 273 Kelvin and 101,3 KPa)

RG/EU Code	Activity	Pollutant Name	Maximum Release Rate (mg/Nm <sup>3</sup> )	Date to be Achieved By	Average Period	Duration of Emissions
EU0001	Subcategory 1.1	Particulate Matter	50	Immediately	Daily	Continuous
		Sulphur dioxide	3500	Immediately	Monthly	Continuous
		Oxides of Nitrogen	750	Immediately	Daily	Continuous
EU0002	Subcategory 1.1	<b>Sulphur dioxide</b>	<b>500</b>	<b>01/04/2026</b>	<b>Daily</b>	<b>Continuous</b>
		Particulate Matter	50	Immediately	Daily	Continuous
		Sulphur dioxide	3500	Immediately	Monthly	Continuous
EU0003	Subcategory 1.1	Oxides of Nitrogen	750	Immediately	Daily	Continuous
		<b>Sulphur dioxide</b>	<b>500</b>	<b>01/04/2026</b>	<b>Daily</b>	<b>Continuous</b>
		Particulate Matter	50	Immediately	Daily	Continuous
EU0004	Subcategory 1.1	Sulphur dioxide	3500	Immediately	Monthly	Continuous
		Oxides of Nitrogen	750	Immediately	Daily	Continuous
		<b>Sulphur dioxide</b>	<b>500</b>	<b>01/04/2026</b>	<b>Daily</b>	<b>Continuous</b>
EU0005	Subcategory 1.1	Particulate Matter	50	Immediately	Daily	Continuous
		Sulphur dioxide	3500	Immediately	Monthly	Continuous
		Oxides of Nitrogen	750	Immediately	Daily	Continuous
EU0006	Subcategory 1.1	<b>Sulphur dioxide</b>	<b>500</b>	<b>01/04/2026</b>	<b>Daily</b>	<b>Continuous</b>
		Particulate Matter	50	Immediately	Daily	Continuous
		Sulphur dioxide	3500	Immediately	Monthly	Continuous
EU0006	Subcategory 1.1	Oxides of Nitrogen	750	Immediately	Daily	Continuous
		<b>Sulphur dioxide</b>	<b>500</b>	<b>01/04/2026</b>	<b>Daily</b>	<b>Continuous</b>
		Particulate Matter	50	Immediately	Daily	Continuous
EU0006	Subcategory 1.1	Sulphur dioxide	3500	Immediately	Monthly	Continuous
		Oxides of Nitrogen	750	Immediately	Daily	Continuous
		<b>Sulphur dioxide</b>	<b>500</b>	<b>01/04/2026</b>	<b>Daily</b>	<b>Continuous</b>
EU0006	Subcategory 1.1	Particulate Matter	50	Immediately	Daily	Continuous
		Sulphur dioxide	3500	Immediately	Monthly	Continuous
		Oxides of Nitrogen	750	Immediately	Daily	Continuous
EU0006	Subcategory 1.1	<b>Sulphur dioxide</b>	<b>500</b>	<b>01/04/2025</b>	<b>Daily</b>	<b>Continuous</b>

a) The following special arrangement shall apply:

- i. Continuous emission monitoring of PM, SO<sub>2</sub> and NO<sub>x</sub> is required, however, installations less than 100 MW heat input per unit must adhere to periodic emission monitoring as stipulated in Part 2 of the Notice.



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7.3. Reporting Group / Emission Unit (Point Sources) – maximum emission rates (under start-up, maintenance and shut-down conditions)

RG/EU Code	Activity	Pollutant Name	Maximum Release Rate (mg/Nm <sup>3</sup> )	Date to be Achieved By	Average Period	Maximum Gas Volumetric Flow (m <sup>3</sup> /hr)	Maximum Gas Exit Velocity (m/s)	Emission Hours	Permitted Duration of Emissions
N/A									

\*Should normal start-up, maintenance, upset and shut down conditions exceed a period of 48 hours, Section 30 of the National Environmental Management, 1998 (Act No. 107 of 1998) shall apply unless otherwise specified by the Licensing Authority.

7.4. Reporting Group / Emission Unit (Point Sources) – emission monitoring and reporting requirements

RG/EU Code	Activity	Pollutant	Emission Sampling / Monitoring Method	Sampling Testing Frequency	Average Monitoring Duration	Parameters to be Measured	Parameters to be Reported	Reporting Frequency
EU0001	Subcategory 1.1	PM SO <sub>2</sub> NO <sub>x</sub>	In line with Annexure A of NEMAQA, No. 37054 Government Gazette 22 November 2013, as amended.	Continuous emissions monitoring	Hourly	PM SO <sub>2</sub> NO <sub>x</sub>	PM SO <sub>2</sub> NO <sub>x</sub>	Monthly
EU0002								
EU0003								
EU0004								
EU0005								
EU0006								

7.4.1 Emissions must be reported in mg/Nm<sup>3</sup> under normal conditions of 10% O<sub>2</sub>, 273 Kelvin and 101, 3 kPa.

7.4.2 The averaging period for the purposes of compliance monitoring shall be expressed on a daily average basis.

7.4.3 The emission monitoring system must be maintained to yield a minimum of 80% valid hourly average values during the reporting period.



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7.5. Area and/or line source – management and mitigation measures

RG/EU Code	Area and/or Line Source Description	Description of Specific Measures	Timeframe for Achieving Required Control Efficiency	Method of Monitoring Measures Effectiveness	Contingency Measures
EU0007	Storage Tank (Storage of fuel oil for unit 1-3)	Storage of fuel oil	Daily	NEM: AQA 39 of 2004	N/A
EU0008	Storage Tank (Storage of fuel oil for units 4-6)	Storage of fuel oil	Daily	NEM: AQA 39 of 2004	N/A
EU0016	Coal stockyard	Compaction of coal and dust suppression through irrigation is implemented	Daily	Monthly fugitive dust fallout monitoring reports	N/A
EU0015	Ash disposal facility	Irrigation system installed to conduct dust suppression	Week days	Monthly fugitive dust fallout monitoring reports	Additional sprinklers and pipelines are being installed
EU00030	Unpaved roads	Dust suppression	24 Hours	Visual Inspection	Recommendations stipulated on the Dust Management Plan as per investigation reports

I. The following special arrangement shall apply for the storage and handling of raw materials, intermediate and final products with a vapour pressure greater than 14KPa at operating temperature:-

Provide Leak detection and repair (LDAR) program for approved by licensing authority three months after AEL is issued.

II. The following special arrangements shall apply for control of TVOC from storage of raw materials, intermediate and final products with a vapour pressure of up to 14 kPa at operating temperature, except during loading and offloading. (Alternative control measures that can achieve the same or better results may be used) –

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(i) Storage vessels for liquid shall be of the following typed:

Application	All Permanent immobile liquid storage facilities at a single site with a combined storage capacity of greater than 1000 cubic meters.
True vapour pressure of contents at product storage temperature	Type of tank or vessel
Type 1: Up to 14 kPa	Fixed-roof tank vented to atmosphere, or as per Type 2 and 3
Type 2: Above 14 kPa and up to 91 kPa with a throughput of less than 50 000 m <sup>3</sup> per annum	Fixed-roof tank with a pressure Vacuum Vents fitted as a minimum, to prevent "breathing" losses, or as per Type
Type 3: Above 14 kPa and up to 91 kPa with a throughput greater than 50 000 m <sup>3</sup> per annum	a) External floating-roof tank with primary rim seal and secondary rim seal for tank with a diameter greater than 20m, or b) Fixed-roof tank with internal floating deck/roof fitted with primary seal, or c) Fixed-roof tank with vapour recovery system.
Type 4: Above 91 kPa	Pressure vessel

(ii) The roof legs, slotted pipes and/or dipping well on floating roof tanks (except for domed floating roof tanks or internal floating roof tanks) shall have sleeves fitted to minimise emissions.

(iii) Relief valves on pressurised storage should undergo periodic checks for internal leaks. This can be carried out using portable acoustic monitors or if venting to atmosphere with an accessible open end, tested with a hydrocarbon analyser as part of an LDAR programme.

III. The following special arrangements shall apply for storage and handling of ore not situated on the premises of a mine or works as defined in the Mines health and Safety Act 29/1996.

\*Three months running average not to exceed limit value for adjacent land use according to dust control regulations promulgated in terms of section 32 of the NEM: AQA, 2004 (Act No. 39 of 2004), in eight principal wind directions.

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## 7.6. Routine reporting and record-keeping

### Complaints register

The licence holder must maintain a complaints register at its premises, and such register must be made available for inspections. The complaints register must include the following information on the complainant, namely, the name, physical address, telephone number, date and the time when the complaint was registered. The register should also provide space for noise, dust and offensive odours complaints.

Furthermore, the licence holder is to investigate and, monthly, report to the licencing authority in a summarised format on the total number of complaints logged. The complaints must be reported in the following format with each component indicated as may be necessary:

- (a) Source code / name;
- (b) Root cause analysis;
- (c) Calculation of impacts / emissions associated with incidents and dispersion modelling of pollutants, where applicable;
- (d) Measures implemented or to be implemented to prevent recurrence; and
- (e) Date by which measure will be implemented.

The licensing authority must also be provided with a copy of the complaints register. The record of a complaint must be kept for at least 5 (five) years after the complaint was made.

### Annual reporting

The licence holder must complete and submit to the licensing authority an annual report. The report must include information for the year under review (i.e. annual year end of the company). The report must be submitted to the licensing authority not later than 60 (sixty) days after the end of each reporting period. The annual report must include, amongst others, the following items:

- (a) The name, description and license reference number of the plant as reflected in the Atmospheric Emission License
- (b) The name and address of the accredited measurement service provider that carried out or verified the emission test, including the test report produced by the accredited measurement
- (c) The date and time on which emission test was carried out
- (d) A declaration by the license holder to the effect that normal operating conditions were maintained during the emission tests
- (e) Pollutant emissions trend;
- (f) Compliance audit report(s);
- (g) Major upgrades projects (i.e. abatement equipment or process equipment); and
- (h) Greenhouse gas emissions.
- (i) Action taken to address complaints received

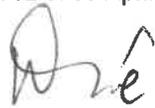
The holder of the licence must keep a copy of the annual report for a period of at least 5 (five) years.

## 7.7 NAEIS Reporting

7.7.1 The License Holder must in accordance with the National Atmospheric Emissions Reporting Regulation, Gazette Number 38633 of 2015, submit their annual emissions report on the NAEIS system. All necessary supporting documentation must accompany the submission.

7.7.2 Reporting of greenhouse gas emissions shall be done in accordance with the National Greenhouse Gas Emissions Reporting Regulations, Regulations, published under Government Notice No. 275 in Gazette No. 40762 of 03 April 2017

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### 7.7.3 Waterberg-Bojanala Priority Area Air Implementation Task Team (ITT)

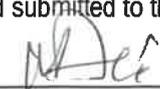
The License Holder must ensure representation and participation in the Waterberg Priority Area ITT and further provide information as would be required by the chairperson of the ITT.

### 7.7.4 Waterberg-Bojanala Priority Area Multi-Stakeholder Reference Group (MSRG)

The License Holder must ensure representation and participation in the Waterberg-Bojanala Priority Area MSRG and further provide information as would be required by the chairperson of the MSRG.

## 7.8. License Notification Requirements

- 7.8.1 The License Holder shall install, calibrate, and operate a Continuous Emissions Monitoring System (CEMS) each for all units that measures Particulate Matter (PM<sub>10</sub>), Sulphur Dioxide (SO<sub>2</sub>), Oxides of Nitrogen (NO<sub>x</sub>) and Carbon Dioxide (CO<sub>2</sub>). The concentrations of the gaseous pollutants shall be corrected to 10% O<sub>2</sub> on a dry basis. The averaging period for the purposes of compliance monitoring shall be expressed on a daily average basis.
- 7.8.2 The CEMS shall be operated, calibrated and maintained continuously, independent of the units' operation. The License Holder must measure and record valid continuous emission data for the parameters listed in Condition 7.3 during all periods of the units' operation including periods of unit start-up, shutdown, malfunction or emergency conditions, except for periods of CEMS quality assurance/quality control ("QA/QC"), routine maintenance, or uncontrolled malfunction. Nevertheless, the CEMS must be maintained to yield a minimum of 90% valid hourly average values during the reporting period. CEMS must be audited by a SANAS accredited laboratory at least once every two (02) years.
- 7.8.3 The License Holder shall conduct spot measurement or correlation stack tests to verify the accuracy of the continuous emission measurement. The Licensing Authority, or the Licensing Authority's duly authorized representative, may witness or conduct such test(s). Should the Licensing Authority opt to conduct such test(s), the operator shall provide all necessary sampling connections and sampling ports to be located in such manner as the Licensing Authority may require, power for test equipment and the required safety equipment, such as scaffolding, railings and ladders, to comply with generally accepted good safety practices. Such tests shall be conducted in accordance with the methods and procedures set out in this License or as otherwise approved or specified by the Licensing Authority.
- 7.8.4 All spot measurement or correlation stack tests to verify the accuracy of the continuous emission measurement and such other tests as specified in this License shall be conducted in accordance with an approved test method as contained in Schedule A of Section 21 Notice (Government Notice No. 893). Methods other than those contained in Schedule A may be used with the written consent of the National Air Quality Officer. Such methods shall be submitted to the Licensing Authority in writing at least thirty (30) days prior to any testing and shall contain the information set out by the Licensing Authority or as per Condition 7.8(A)(iii).
- 7.8.5 The License Holder shall notify the Licensing Authority prior to any isokinetic sampling, spot measurement or correlation stack tests, in accordance with Condition 7.8, so the Licensing Authority may have the opportunity to observe such tests. This notification shall include the actual date and time during which the test will be conducted and, if appropriate, verification that the tests will fully conform to a referenced method previously approved by the Licensing Authority.
- 7.8.6 In addition to installing, operating and maintaining a CEMS for monitoring and reporting of emissions, the License Holder shall install, maintain and operate an ambient air quality [Sulphur Dioxide (SO<sub>2</sub>); Nitrogen Dioxide (NO<sub>2</sub>), Carbon Monoxide (CO); Particulate Matter (PM<sub>10</sub> and PM 2.5); Ozone (O<sub>3</sub>); and Mercury (Hg)] monitoring and associated meteorological stations in relevant area upwind and downwind of the facility. An ambient air quality monitoring plan must be developed and submitted to the Licensing Authority for review and approval by the Licensing Authority.
- 7.8.7 The License Holder shall also conduct public education and awareness campaigns focusing on air quality improvements and shall implement a program of support for initiatives aimed at improving air quality in the surrounding communities and performance reports must be submitted to the Licensing Authority as per Condition 7.7.1(V). A five year public education and awareness plan must be developed and submitted to the Licensing Authority for review and approval by the Licensing Authority.

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### 7.9. Investigation and Reviews

The following investigations are required:

Investigation	Purpose	Completion Date
Investigating sources of odour complains by Marapong community.	To determine the possible source of odour experienced by the Marapong community.	30/11/2022

### 7.10. Start up, Maintenance and Shut-down Conditions

Unit Process	Description of Occurrence of Potential Releases (e.g. leakage, technology outage, etc.)	Pollutants and Associated Amount of Emissions	Briefly Outline Back Up Plan
Start-up	ESP	Particulate matter / >200 mg/Nm <sup>3</sup>	ESP start-up after second mill in service controlled by PLC
Shut-down	ESP	Particulate matter /	ESP stays in service until all mills out of service
On-load maintenance	Flue gas conditioning plant out of service for repairs or maintenance; dust handling plant repairs	Particulate matter / >100 mg/Nm <sup>3</sup>	Procedure PWA/HNE/001 Approaching emission limit to guide operating
Fuel oil support	During Low load conditions	Particulate matter / >100 mg/Nm <sup>3</sup>	FFFR regulates when to use when to use fuel oil supply
Plant breakdown	ESP field, flue gas conditioning plant or dust handling plant breakdown	Particulate matter / 150mg/Nm <sup>3</sup>	Procedure PWA/HNE/001 Approaching emission limit to guide operating

- 7.10.1 The License Holder shall, to the extent practicable, maintain and operate the facility including associated air pollution control equipment in a manner consistent with good practice for minimizing emissions.
- 7.10.2 During a period of start-up, shutdown, or malfunction, the License Holder shall operate all unit processes (including associated air pollution control equipment) in accordance with the procedure specified in the start-up, shutdown, maintenance and malfunction plan.
- 7.10.3 Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Licensing Authority, which may include, but is not limited to, monitoring results, review of operating maintenance procedures and inspection of the facility.

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- 7.10.4 The License Holder shall maintain records of the occurrence and duration of any start-up, maintenance, shutdown, or malfunction in the operation of each unit; any malfunction of the air pollution control equipment; or any periods during which a CEMS is inoperative.
- 7.10.5 Notification of a start-up, shutdown, or a malfunction shall be made by the License Holder in accordance with Condition 7.8.

**8. DISPOSAL OF WASTE AND EFFLUENT ARISING FROM ABATEMENT EQUIPMENT CONTROL TECHNOLOGY**

The disposal of any waste and effluent arising from the abatement equipment control technology must comply with the relevant legislation and requirements of the relevant authorities.

EU Code	Stack Code	Waste / Effluent Type	Hazardous Components Present	Method of Disposal
EU0001-EU0006	SV0001 – SV00006	Particulate Matter from Electrostatic Precipitators	Metals (arsenic & mercury)	Ash dump area

**9. PENALTIES FOR NON-COMPLIANCE WITH LICENCE AND STATUTORY CONDITIONS OR REQUIREMENTS**

Failure to comply with any of the licence and relevant statutory conditions and/or requirements is an offence, and licence holder, if convicted, will be subjected to those penalties as set out in section 52 of the AQA.

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