



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

File Reference Number:
NEAS Reference Number:
Date Received:

(For official use only)

12/12/20/ or 12/9/11/L

DEAT/

Application for integrated environmental authorisation and waste management licence in terms of the-

- (1) National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2010; and
- (2) National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) and Government Notice 718 of 2009.

PROJECT TITLE

Environmental Impact Assessment and Waste Management License Application for Continued Ashing at the Existing Ash Disposal Facilities, at Majuba Power Station, Mpumalanga Province

PART A: INFORMATION AND APPLICATION PROCESS

1. DEFINITIONS

Definitions in this form are as per the National Environmental Management Act, 1998 (Act No. 107 of 1998) (NEMA), the Environmental Impact Assessment ("EIA") Regulations, 2010, the National Environmental Management: Waste Act, 1998 (Act No. 59 of 2008) ("NEMWA") and the Schedule contained in Government Notice 718, published on 3 July 2009 in terms of section 19 of NEMWA.

2. APPLICABILITY OF INTEGRATED ENVIRONMENTAL AUTHORISATION PROCESS

The integrated environmental authorisation process only apply in instances where the **Minister** is both the-

- (a) competent authority for the environmental authorisation applied for in terms of NEMA and the EIA Regulations, 2010; and
- (b) the licencing authority for the waste management licence in terms of NEMWA.

Kindly refer to paragraph 3.2 of this part of the application to determine in which instances the Minister would be the competent authority in terms of NEMA and the licencing authority in terms of NEMWA.

3. APPLICATION PROCESS EXPLAINED:

3.1 Integrated environmental authorisation process:

3.1.1 The environmental authorisation process prescribed for listed activities under Listing Notices 1, 2 and 3 published in *Government Gazette* Numbers R544, R545 and R546 respectively and the waste licensing process for listed activities contained in the Schedule in Government Notice 718, 2009 published in terms of section 19 of NEMWA are as defined in the Environmental Impact Assessment (EIA) Regulations made under section 24(5) of the National Environmental Management Act, 2008 (Act No. 107 of 1998) ("NEMA").

3.1.2 This integrated application form is the official form in terms of regulation 12(2)(a) of the EIA Regulations, 2010 and must accompany every integrated environmental authorization application pertaining to-

- listed activities in terms of NEMA; and
- waste activities in terms of NEMWA.

3.2 Competent Authority (Where to submit applications)

3.2.1 The Minister of Water and Environmental Affairs is the-

- competent authority in respect of the activities listed in Listing Notices 1, 2 and 3, published in *Government Gazette* numbers R544, R545, and R546 respectively, in terms of NEMA if the activity-
 - (a) has implications for international environmental commitments or relations;
 - (b) will take place within an area protected by means of an international environmental instrument, other than-
 - (i) any area falling within the sea-shore or within 150 meters seawards from the high-water mark, whichever is the greater;
 - (ii) a conservancy;
 - (iii) a protected natural environment;
 - (iv) a proclaimed private nature reserve;
 - (v) a natural heritage site; and
 - (vi) the buffer zone or transitional area of a world heritage site;
 - (c) has a development footprint that falls within the boundaries of more than one province or traverses international boundaries;
 - (d) Is undertaken, or is to be undertaken by-
 - (i) A national department;
 - (ii) A provincial department responsible for environmental affairs or any other organ of state performing a regulatory function and reporting to the MEC; or
 - (iii) A statutory body, excluding any municipality, performing an exclusive competence of the national sphere of government; or
 - (e) Will take place within a national proclaimed protected area or other conservation area under control of a national authority.
- licencing authority in respect of all activities listed in both categories of the Schedule contained in Government Notice 718, 2009 published in terms of section 19 of NEMWA where –

- (a) Unless otherwise indicated by the Minister by notice in the *Gazette*, the waste management activity involves the establishment, operation, cessation or decommissioning of a facility at which hazardous waste has been or is to be stored, treated or disposed of;
- (b) The waste management activity involves obligations in terms of an international obligation, including the importation or exportation of hazardous waste;
- (c) The waste management activity is to be undertaken by-
 - (i) A national department;
 - (ii) A provincial department responsible for environmental affairs; or
 - (iii) A statutory body, excluding any municipality, performing an exclusive competence of the national sphere of government;
- (d) The waste management activity will affect more than one province or traverse international boundaries; or
- (e) Two or more waste management activities are to be undertaken at the same facility and the Minister is the licencing authority for any of those activities.

However, despite the above-mentioned legislative provisions, the Minister and an MEC may agree that an application for a waste management activity or an environmental authorisation in respect of the above-mentioned activities, where the Minister is the competent/licencing authority, may be dealt with by the relevant MEC within whose province the activity(ies) will take place. Similarly the Minister and the MEC may agree that an application for an environmental authorisation or a waste management activity where the MEC has been identified as the competent/licencing authority, may be dealt with by the Minister. [Section 24C(3) of NEMA and section 43(3) of NEMWA]

The integrated application for environmental authorisation must be submitted by lodging an application with the National Department of Environmental Affairs. The application must be marked for the attention of:

The Director: Environmental Impact Evaluation
Private Bag X447
Pretoria 0001
Tel: 012 310 3230

3.3 Making an Application

- 3.3.1 This application form is current as of 1 September 2010. It is the responsibility of the applicant to ascertain whether subsequent versions of the form have been published or produced by the competent authority. It is the applicant's responsibility to download the current version of the application form from the website of the Department at <http://www.deat.gov.za>.
- 3.3.2 The application must be typed within the spaces provided in the form. The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided. Spaces are provided in tabular format and will extend automatically when each space is filled with typing.
- 3.3.3 The applicant must clearly mark confidential sections of the information submitted in the application form and supporting documents. Unless protected by law, all information filled in on this application will become public information on receipt by the competent authority. Any interested and affected party should be provided with the information contained in this application on request, during any stage of the application process.
- 3.3.4 The applicant must fill in all relevant sections of this form. Incomplete applications will not be processed. The applicant will be notified of the missing information in the acknowledgement letter that will be sent within 14 days of receipt of the application.
- 3.3.5 Incomplete applications may be returned to the applicant for revision.
- 3.3.6 Sections in the form that do not apply to the applicant must be marked "not applicable". However, the use of the phrase "not applicable" in the form must be done with circumspection. Should it be done in respect of material information required by the competent authority for assessing the application, it may result in the rejection of the application as provided for in the Regulations.
- 3.3.7 Where applicable **black out** the boxes that are not applicable in the form.
- 3.3.8 This application form (together with four hard copies of this application form), must be handed in at the offices of the relevant competent authority as determined by the relevant Acts and Regulations and as indicated in this application form. All application forms must be signed as stipulated in the form. Applications that are not signed or completed accordingly will not be considered.
- 3.3.9 No faxed or e-mailed applications will be accepted.
- 3.3.10 There is currently no prescribed fee.

3.4 Appointment of an EAP

- The applicant must appoint an EAP in terms of EIA Regulations, 2010;
- The EAP must comply with general requirements as given in EIA regulations, 2010; and
- The EAP may be disqualified in terms of EIA Regulations, 2010.

3.5 Criteria for determining whether basic assessment or scoping is to be applied to applications

3.5.1 NEMA activities

- (a) Basic assessment must be applied to an application if the authorisation applied for is in respect of an activity listed in Listing Notices 1 and/or 3 published in Government Gazette Numbers R544 and R546, 2010 respectively and which must follow the process described in sections 21-25 of the EIA Regulations, 2010; and
- (b) Scoping and Environmental Impact Reporting Process ("S&EIR") must be applied to an application if the authorisation applied for is in respect of an activity listed in Listing Notice 2 published in Government Gazette Number R545, 2010 and which must follow the process described in sections 26-35 of the EIA Regulations, 2010.

3.5.2 NEMWA activities

- (a) Basic assessment, in terms of sections 21-25 of the EIA Regulations, 2010, must be applied to an application if the authorisation applied for is in respect of an activity listed in Category A of the Schedule contained in Government Notice 718, published on 3 July 2009, in terms of section 19 of NEMWA; and
- (b) S&EIR, in terms of sections 26-35 of the EIA Regulations, 2010, must be applied to an application if the authorisation applied for is in respect of an activity Category B of the Schedule contained in Government Notice 718, published on 3 July 2009, in terms of section 19 of NEMWA.

3.5.3 Combination of NEMA and NEMWA activities

Should any of the NEMA or NEMWA activities applied for require the application of the S&EIR process, the S&EIR process will be applied to this application for integrated environmental authorisation.

Queries must be addressed to the contact hereunder:

Departmental Details

Postal address:

Department of Environmental Affairs
Attention: Director: Environmental Impact Evaluation
Private Bag X447
Pretoria
0001

Physical address:

Department of Environmental Affairs
Fedsure Forum Building (corner of Pretorius and Van der Walt Streets)
2nd Floor North Tower
315 Pretorius Street
Pretoria
0002

Queries should be directed to the Directorate: Environmental Impact Evaluation at:

Tel: 012-310-3290
Fax: 012-320-7539

PART B: GENERAL

1. DESCRIPTION OF PROJECT

The entire project will entail the following (full detail of the project can also be appended):

Majuba Power Station, in the Mpumalanga Province envisages the continuation of dry ash disposal (i.e. dry ashing) over Eskom owned land. Such land was purchased before the commencement of Environmental laws, the Environment Conservation Act, in particular. As part of its planning processes, Eskom developed designs which were approved internally ~ these designs showed the proposed ashing lands. With the promulgation of the environmental laws, and the National Environmental Management Waste Act, Act 59 of 2008, in particular, Eskom would like to align its continued ashing activities with the requirements of the waste licensing processes.

The proposed continuous development is an ash dump site with the following specifications:

- Capacity of airspace of 156.2 million m³ (remaining from August 2010 survey); and
- Ground footprint of 955 ha (362 ha: 0 – 15 year + 593 ha: 15 – 45 year) Ha (Fenced Area including pollution control dams)

This ash disposal facility shall be able to accommodate the ashing requirements of the power station for the next 33 years, from 2012 to 2045 (these timelines are based on an annual ash production rate of 3.579 million tonnes). The proposed portion of 593 Ha is located on the Southern portion of the current Majuba Power Station ash dump site boundary. The proposed progressive portion of ash dump will continue from the existing ash dump, all on Eskom's land within the originally planned ashing area

The need for this is applicaiton is to allow the Majuba Power Station to continue with the disposal of its ash in an environmentally responsible way for the life of station.

Purpose of application:

The purpose of the application is to, on behalf of the applicant – Eskom Holdings SOC Limited, apply for an environmental authorisation for the relevant listed activities under both the National Environmental Management Act (Act 107 of 1998) and the National Environmental Management Waste Act (Act 59 of 2008), as well as to apply for a Waste Management License, due to the fact that the ash disposal facility is deemed a waste disposal facility.

2. FLOW CHART OF OPERATIONS

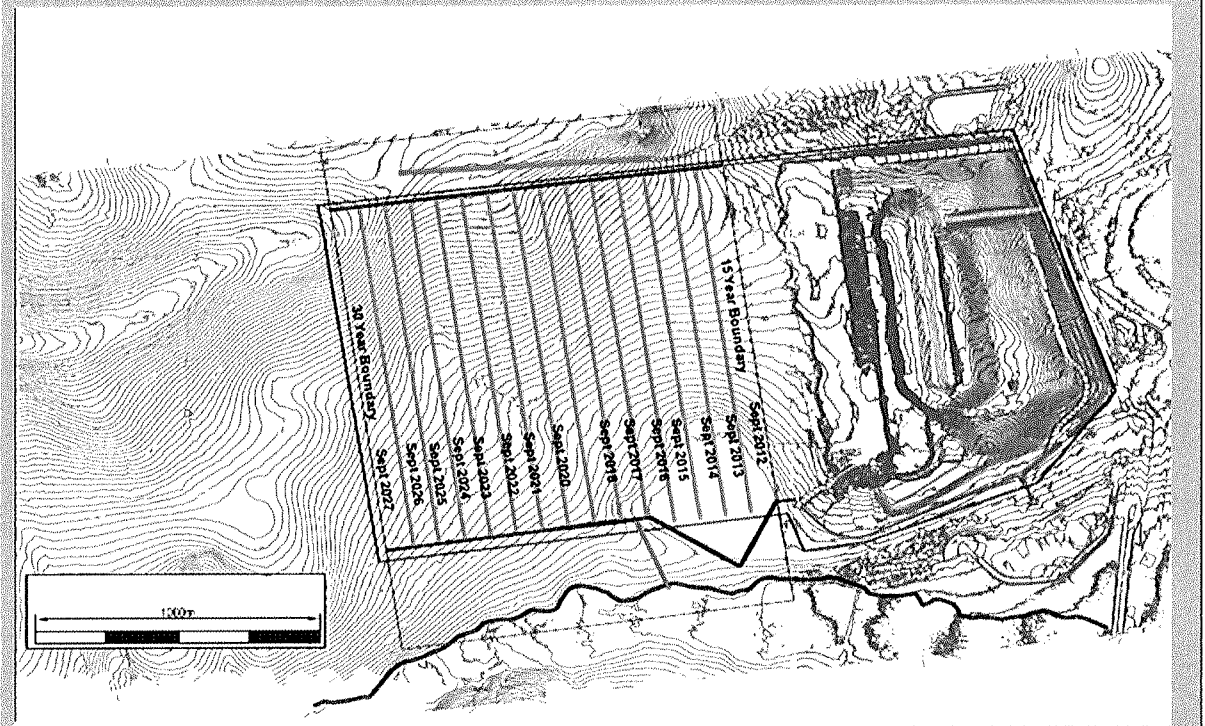
Please provide a brief description of the activities and operations at the site. Provide a flow chart of the operation showing all inputs and outputs of the process. Give particulars of the source, location, nature, composition and quantity of emission to the atmosphere, surface water, sewer, and ground-water including noise emissions. Solid waste must be in tons and specify units for liquids and gases.

The relevant flow diagrams depicting inputs and outputs, as well as the process flow, are provided below. The waste in question is ash which has its source from the coal combustion process of the power station. The nature and composition of the ash will be determined and classified during the EIA process.

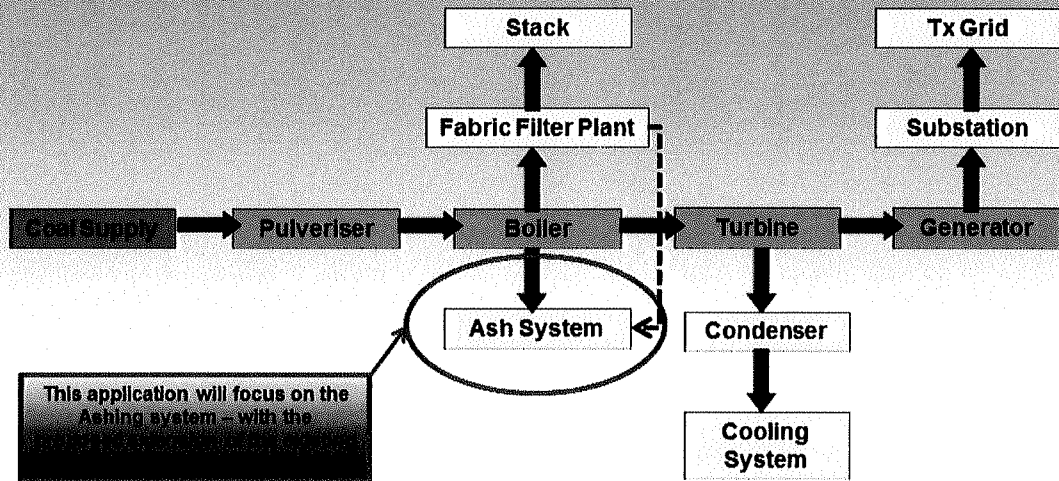
The waste product is deposited onto the dump by means of a stacker at a rate of approximately 15 333 tons per day.

In terms of the emissions from the ash disposal facility, these will be identified during the EIA process by the relevant specialists.

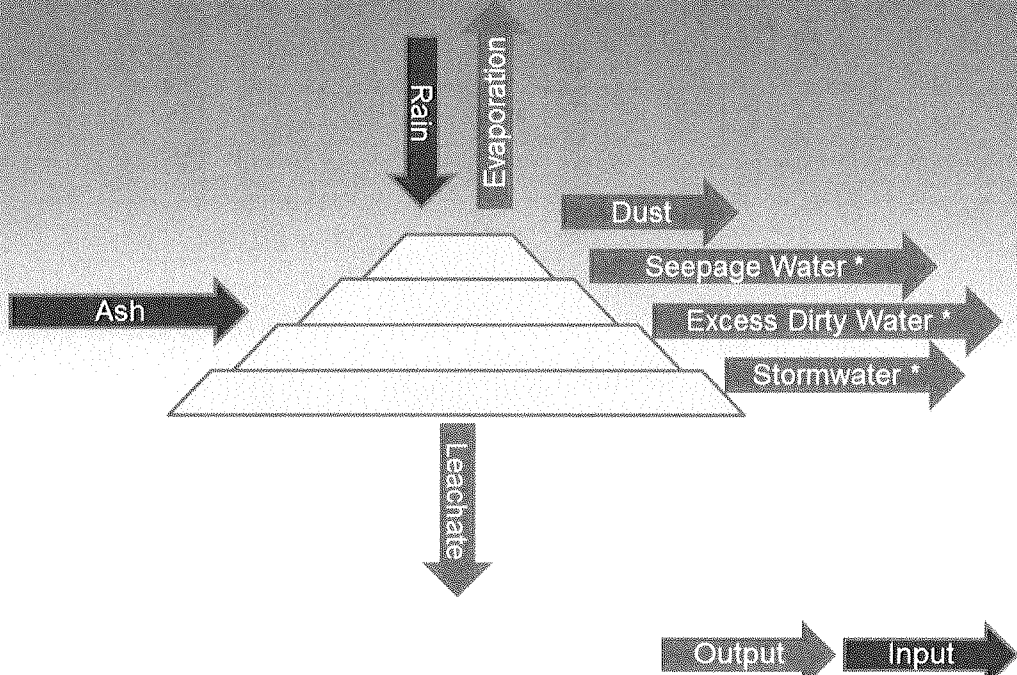
The figure below illustrates the ash dump layout as currently constructed and outlines the footprint of the proposed future extent of the facility.



Majuba Power Station - Process Flow Diagram



Majuba Power Station Ashing System – Simplified Inputs and Outputs Diagram



* Excess dirty water is discharged into the Ash Water Return Dams while seepage water and stormwater is discharged into the Seepage water dam

3. BACKGROUND INFORMATION

Project applicant:	Eskom Holdings SOC Limited		
Trading name (if any):	As Above		
Contact person:	Deidre Herbst		
Physical address:	Megawatt Park, Maxwell Drive, Sunninghill, Sandton		
Postal address:	PO Box 1091		
Postal code:	2000	Cell:	083 660 1147
Telephone:	011 800 3501	Fax:	086 660 6092
E-mail:	deidre.herbst@eskom.co.za		

Landowner:	Eskom Holdings Limited (Majuba Power Station)		
Contact person:	Gladman Mkwai (Power Station Manager)		
Postal address:	Private Bag 9001, Volksrust		
Postal code:	2470	Cell:	082 877 9808
Telephone:	017 799 2100/1	Fax:	017 799 2145
E-mail:	MkwaiMG@eskom.co.za		

In instances where there is more than one landowner, please attach a list of landowners with their contact details to this application.

Ownership of the property (mark only one with an X)

Property owned by applicant (100% Share value)	<input checked="" type="checkbox"/>	Property leased by applicant	<input type="checkbox"/>
Property owned by applicant (Share value less than 100%)	<input type="checkbox"/>	The property is communal land	<input type="checkbox"/>

Local authority in whose jurisdiction the proposed activity will fall:	Pixley Ka Seme Local Municipality (MP 304100)		
Nearest town or districts:	Amersfoort		
Contact person:	Mr L de Jager, Municipal Manager		
Postal address:	Private Bag x 9011, Volksrust		
Postal code:	2470	Cell:	<input type="checkbox"/>
Telephone:	(017) 734 6101	Fax:	086 630 2209
E-mail:	records@pixleykaseme.co.za		

In instances where there is more than one local authority involved, please attach a list of local authorities with their contact details to this application.

Please note that a complete list of all organs or state and or any other applicable authority with their contact details must be appended to this application.

Property description/physical address:

Eskom Owned Land:

- Farm Roodekopjes 67 HS (Portion 1)
- Farm Witkopjes 81 HS (Portions 1, 2, 5, 6, 7, 13 and 14)

(Farm name, portion etc.) Where a large number of properties are involved (e.g. linear activities), please attach a full list to this application.

In instances where there is more than one town or district involved, please attach a list of towns or districts to this application.

Current land-use where the site is situated:

Industrial
Agriculture
Residential
Forestry
Wetlands
Open spaces

X
X
X

Recreation
Commercial
Mining & quarrying
Wilderness areas
Nature area

X

Other current land-use.....

Current land-use zoning:

Agricultural

In instances where there is more than one current land-use zoning, please attach a list of current land use zonings that also indicate which portions each use pertains to , to this application.

Is a change of land-use or a consent use application required?
Must a building plan be submitted to the local authority?

Unsure as yet
Unsure as yet

Locality map:

An A3 locality map must be attached to the back of this document, as Appendix A. The scale of the locality map must be relevant to the size of the development (at least 1:50 000. For linear activities of more than 25 kilometres, a smaller scale e.g. 1:250 000 can be used. The scale must be indicated on the map.) The map must indicate the following:

- an accurate indication of the project site position as well as the positions of the alternative sites, if any;
- road access from all major roads in the area;
- road names or numbers of all major roads as well as the roads that provide access to the site(s);
- all roads within a 1km radius of the site or alternative sites; and
- a north arrow;
- a legend; and
- locality GPS co-ordinates (Indicate the position of the activity using the latitude and longitude of the centre point of the site for each alternative site. The co-ordinates should be in degrees and decimal minutes. The minutes should have at least three decimals to ensure adequate accuracy. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection).

4. SITE IDENTIFICATION AND LINKAGE, LOCATION AND LANDUSE

4.1 Please indicate all the Surveyor-general 21 digit site (erf/farm/portion) reference numbers for all sites (including portions of sites) that are part of the application.

T	0	H	S	0	0	0	0	0	0	0	0	0	6	7	0	0	0	0	1
T	0	H	S	0	0	0	0	0	0	0	0	0	8	1	0	0	0	0	0
T	0	H	S	0	0	0	0	0	0	0	0	0	8	1	0	0	0	0	1
T	0	H	S	0	0	0	0	0	0	0	0	0	8	1	0	0	0	0	2
T	0	H	S	0	0	0	0	0	0	0	0	0	8	1	0	0	0	0	5
T	0	H	S	0	0	0	0	0	0	0	0	0	8	1	0	0	0	0	6
T	0	H	S	0	0	0	0	0	0	0	0	0	8	1	0	0	0	0	7
T	0	H	S	0	0	0	0	0	0	0	0	0	8	1	0	0	0	1	3
T	0	H	S	0	0	0	0	0	0	0	0	0	8	1	0	0	0	1	4

LEGEND:

- 1. Refers to the Surveyor's-General Office
- 2. Major Code (Registration Division)
- 3. Minor code
- 4. Property No (i.e. Farm No./Erf No./Holding Area No./Sheme No.)
- 5. Portion Number

(if there are more that 6, please attach a list with the rest of the numbers)

(These numbers will be used to link various different applications, authorisations, permits etc. that may be connected to a specific site)

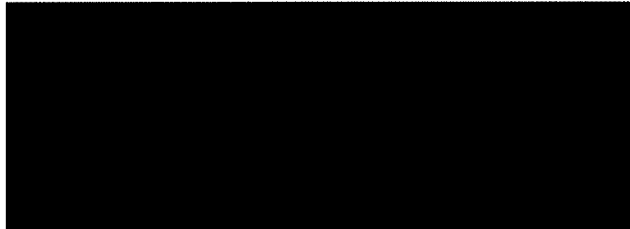
4.2 If the property type is not surveyed, complete the following:

Full name of leader of village, community or tribal authority

Local Authority

Magisterial District

Tribal Authority/Council



PART C: LISTED ACTIVITIES APPLIED FOR IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 AND THE ENVIRONMENTAL IMPACT REGULATIONS, 2010

1. ACTIVITIES APPLIED FOR TO BE AUTHORISED

For an application for authorisation that involves more than one listed or specified activity that, together, make up one development proposal, all the listed activities pertaining to this application must be indicated.

Indicate the number and date of the relevant notice:	Activity No (s) (in terms of the relevant or notice) :	Describe each listed activity as per the detailed project description (and not as per wording of the relevant Government Notice):
No. R. 544 August 2010	9	The construction of facilities or infrastructure exceeding 1000 meters in length for the bulk transportation of water, sewage or storm water (i) with an internal diameter of 0.36 meters or more or (ii) with a peak throughput of 120 litres per second or more.
	11	The construction of infrastructure or structures covering 50 square metres or more where such construction occurs within a watercourse or within 32 metres of a watercourse, measured from the edge of a watercourse, excluding where such construction will occur behind the development setback line
	18	The infilling or depositing of any material of more than 5 cubic metres into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock or more than 5 cubic metres from a watercourse
	22	The construction of a road outside urban areas, with a reserve wider than 13,5 meters, or where no reserve exists where the road is wider than 8 meters.
	24	The transformation of land bigger than 1000 square metres in size, to residential, retail, commercial, industrial or institutional use, where, at the time of the coming into effect of this Schedule or thereafter such land was zoned open space, conservation or had an equivalent zoning.
	28	The expansion of or changes to existing facilities for any process or activity where such expansion or changes to will result in the need for a permit or license in terms of national or provincial legislation governing the release of emissions or pollution, excluding where the facility, process or activity is included in the list of waste management activities published in terms of section 19 of the National Environmental Management: Waste Act, 2008 (Act No 59 of 2008 in which case that Act will apply.
	37	The expansion of facilities or infrastructure for the bulk transportation of water, sewage or storm water where: (a) the facility or infrastructure is expanded by more than 1000 metres in length; or (b) where the throughput capacity of the facility or infrastructure will be increased by 10% or more–
	39	The expansion of canals, channels, bulk storm water outlet structures within a watercourse or within 32 metres of a watercourse, measured from the edge of a watercourse, where such expansion will result in an increased development footprint but excluding where such expansion will occur behind the development setback line.
	40	The expansion of infrastructure by more than 50 square metres within a watercourse or within 32 metres of a watercourse, measured from the edge of a watercourse, but excluding where such expansion will occur behind the development setback line.

	47	The widening of a road by more than 6 meters or the lengthening of a road by more than 1 kilometre where no reserve exists, where the existing reserve is wider than 13,5 meters or where the existing road is wider than 8 meters.
	49	The expansion of facilities or infrastructure for the bulk transportation of dangerous goods in solid form, outside an industrial complex or zone, by an increased throughput capacity of 50 tons or more per day.
No. R. 545	6	The construction of facilities or infrastructure for the bulk transportation of dangerous goods in solid form, outside an industrial complex, using funiculars or conveyors with a throughput capacity of more than 50 tons per day
	15	Physical alteration of undeveloped, vacant or derelict land for residential, retail, commercial, recreational, industrial or institutional use, where the total area to be transformed is 20 hectares or more
	26	Commencing of an activity, which requires an atmospheric emission license in terms of section 21 of the National Environmental Management: Air Quality Act 2004 (Act 39 of 2004), except where such commencement requires basic assessment in terms of Notice R544 of 2010
No. R. 546	4	The construction of a road wider than 4 meters with a reserve less than 13.5 meters outside urban areas, in: aa) A protected area identified in terms of NEMPAA, excluding conservancies; (bb) National Protected Area Expansion Strategy Focus areas; (dd) Sensitive areas as identified in an environmental management framework as contemplated in chapter 5 of the Act and as adopted by the competent authority; (ff) Critical biodiversity areas or ecosystem service areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans; (hh) Areas within 10 kilometers from national parks or world heritage Sites or 5 kilometers from any other protected area identified in terms of NEMPAA or from the core area of a biosphere reserve.
	16	The construction of infrastructure outside urban areas in sensitive areas covering 10 square meters or more where such construction occurs within a watercourse or within 32 meters of a watercourse, measured from the edge of a watercourse, excluding where such construction will occur behind the development setback line outside urban areas, in: (aa) A protected area identified in terms of NEMPAA, excluding conservancies; (bb) National Protected Area Expansion Strategy Focus areas; (dd) Sensitive areas as identified in an environmental management framework as contemplated in chapter 5 of the Act and as adopted by the competent authority; (ff) Critical biodiversity areas or ecosystem service areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans; (hh) Areas within 10 kilometers from national parks or world heritage Sites or 5 kilometers from any other protected area identified in terms of NEMPAA or from the core area of a biosphere reserve.
	19	The widening of a road by more than 4 meters or lengthening of a road by more than 1 kilometer, outside urban areas, in: aa) A protected area identified in terms of NEMPAA, excluding conservancies; (bb) National Protected Area Expansion Strategy Focus areas; (dd) Sensitive areas as identified in an environmental management framework as contemplated in chapter 5 of the Act and as adopted by the competent authority; (ff) Critical biodiversity areas or ecosystem service areas as identified

		in systematic biodiversity plans adopted by the competent authority or in bioregional plans; (hh) Areas within 10 kilometers from national parks or world heritage Sites or 5 kilometers from any other protected area identified in terms of NEMPAA or from the core area of a biosphere reserve.
	24	The expansion of infrastructure where the infrastructure will be expanded by 10 square meters or more where such construction occurs within a watercourse or within 32 meters of a watercourse, measured from the edge of a watercourse, excluding where such construction will occur behind the development setback line outside urban areas, in: (aa) A protected area identified in terms of NEMPAA, excluding conservancies; (bb) National Protected Area Expansion Strategy Focus areas; (dd) Sensitive areas as identified in an environmental management framework as contemplated in chapter 5 of the Act and as adopted by the competent authority; (ff) Critical biodiversity areas or ecosystem service areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans; (hh) Areas within 10 kilometers from national parks or world heritage sites or 5 kilometers from any other protected area identified in terms of NEMPAA or from the core area of a biosphere reserve.

Please note that any authorisation that may result from this application will only cover activities specifically applied for.

2. TYPE OF APPLICATION REQUIRED FOR ABOVE-MENTIONED ACTIVITIES

2.1 Application for Basic Assessment

Is this an application for conducting a basic assessment (as defined in the Regulations)?

NO

Please indicate when the basic assessment report will be submitted:

2.2 Application for Scoping and Environmental Impact Reporting (S&EIR) assessment

Is this an application for S&EIR (as defined in the Regulations)?

YES

Please indicate when the S&EIR Report (including the Plan of Study for EIA) will be submitted:

Scoping Report and Plan of Study for EIA to be submitted in Nov 2012 – still to be confirmed

The S&EIR report will be submitted

YES

after consultation with the competent authority:

PART D: ACTIVITIES APPLIED FOR IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT: WASTE ACT, 2008 AND THE ENVIRONMENTAL IMPACT REGULATIONS, 2010

SECTION 1: TYPE OF APPLICATION AND FACILITY:

1.1 Indicate the type of facility/operation and fill in the required sections only

TYPE OF ACTIVITY	MARK	SECTIONS OF THE FORM TO BE FILLED IN
Recycling and/or recovery Facility		All except Section 5
Storage and or transfer Facility		All except Section 5
Treatment facility		All except Section 5
Disposal facility	X	All

1.2 Activities applied for:

An application may be made for more than one listed or specified activity that, together, make up one development proposal. All the listed activities that make up this application must be listed.

INDICATE THE NO. & DATE OF THE RELEVANT NOTICE:	ACTIVITY NUMBERS (AS LISTED IN THE WASTE MANAGEMENT ACTIVITY LIST) :	DESCRIBE EACH LISTED ACTIVITY (and not as per the wording of the relevant Government Notice):
No. R. 718 July 2009 Category A	19	The expansion of facilities of or changes to existing facilities for any process or activity, which requires an amendment of an existing permit or license or a new permit or license in terms of legislation governing the release of pollution, effluent or waste.
No. R. 718 July 2009 Category B	9	The disposal of any quantity of hazardous waste to land
	11	The construction of facilities for activities listed in Category B of this schedule (not in isolation to associated activity)

NB: Authorisation issued will only cover activities applied for and listed above. Activities added in the middle or after the processing of this authorisation may mean a totally new application.

1.3 TYPE OF APPLICATION REQUIRED FOR ABOVE-MENTIONED ACTIVITIES

1.3.1 Application for Basic Assessment

Is this an application for conducting a basic assessment (as defined in the Regulations)?

	NO

Please indicate when the basic assessment report will be submitted:

--

1.3.2 Application for Scoping and Environmental Impact Reporting (S&EIR) assessment

Is this an application for S&EIR (as defined in the EIA Regulations, 2010) reporting?

YES	

Please indicate when the S&EIR Report (including the Plan of Study for EIA) will be submitted:

Scoping Report and Plan of Study for EIA to be Submitted in Nov 2012 – still to be confirmed

The scoping report will be submitted after consultation with the competent authority:

YES	NO

1.4 Size of Site and Classification

Size of facility for a waste management activity

955 ha

Area where the waste management activity takes place

Majuba Power Station

Classification of facility in terms of climatic water balance

To be classified during the EIA process. Detailed will be provided in the EIR

Classification of Facility in terms of the type and the quantity of waste received

To be classified during the EIA process. Detailed will be provided in the EIR

1.5 Operational times

PERIOD	FROM	UNTIL
Weekdays	Continuous	
Saturdays		
Sunday		
Public holidays		

SECTION 2: WASTE QUANTITIES

2.1 Indicate or specify types of waste and list the estimated quantities expected to be managed daily (should you need more columns, you are advised to add more)

Hazardous waste	Non hazardous waste	Total waste handled (tonnes per day)
Ash	.	Approximately 15 333 tons per day

Source of information supplied in the table above Mark with an "X"

Determined from volumes

Determined with weighbridge/scale

Estimated



2.2 Recovery, Reuse, Recycling, treatment and disposal quantities:

Indicate the applicable waste types and quantities expected to be disposed of and salvaged annually:

TYPES OF WASTE	MAIN SOURCE (NAME OF COMPANY)	QUANTITIES		ON-SITE RECOVERY REUSE RECYCLING TREATMENT OR DISPOSAL	OFFSITE RECOVERY REUSE RECYCLING TREATMENT OR DISPOSAL	OFFSITE DISPOSAL
		TONS/MONTH	M ³ /MONTH	method & location	method location and contractor details	
Ash	Majuba Power Station		Approximately 200 000 m ³ (460 000 tons per month – converted to m ³ utilising a specific gravity for fly ash of 2.3)	On site dry disposal	.	.

SECTION 3: GENERAL

3.1 Prevailing wind direction (e.g. NWW)

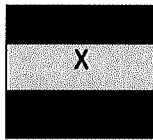
November – April	Easterly
May - October	East-North-Easterly

3.2 The size of population to be served by the facility

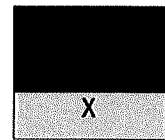
	Mark with "X"	Comment
0-499		Not Applicable
500-9,999		
10,000-199,999		
200,000 upwards		

3.3 The geological formations underlying the site:

Granite
Shale
Sandstone



Quartzite
Dolomite
Dolerite



Other _____

SECTION 4: COMPETENCE TO OPERATE SITE

It is imperative that the holder of the waste management licence is a fit person in terms of section 59 of the NEMWA (59 of 2008). To assess the holder's competence to operate the site, please disclose the following:

4.1 Legal compliance

Has the applicant ever been found guilty or issued with a non compliance notice in terms of any national environmental management legislation?

Has the applicant's licence in terms of the Waste Act 2008 ever been revoked?

Has the applicant ever been issued with a non compliance notice or letter in terms of any South African Law?

YES/NO	DETAILS
NO	These details have specific reference to Majuba Power Station
NO	
NO	

***NB:** Details required above include any information that the applicant wants the Department to take into consideration in determining whether they are a "fit person" and this includes reasons why the offence happened and measures in place to prevent recurrence*

4.2 Technical competence

What technical skills are required to operate the site?

The following skills are required:

- An ash system Engineer (Mechanical),
- A civil Engineer,
- A quantity surveyor,
- Senior technician(Eskom),
- Site supervisor (Roshcon),
- Site manager(roshcon),
- Contracts manager (Eskom),
- Maintenance personnel (Roshcon and Eskom),
- Stacker operators

How will the applicant ensure and maintain technical competency in the operation of the site?

Through Training, quality control and assurance as well as plant monitoring, ensuring that the current operations of the dump is as per the design. By ensuring that personnel have the necessary skills and knowledge in terms of the operation of the Ash Dump.

4.3 Details of applicant's experience and qualification along with that of relevant employees must be summarised as shown in the table below:

NAME	POSITION	DUTIES AND RESPONSIBILITIES	QUALIFICATIONS AND EXPERIENCE
Please note these are the current names and are accurate as of August 2012, it should be noted that the specific people involved may change from time to time.			
PSM:M.G Mkwai	PSM	Power Station Manager	Higher National Diploma Mechanical Maintenance Diploma- Turkey BSC II- Fort Hare
Tebogo Madisha	Civil Engineer (Eskom)	Civil/Structural System Engineer	B.Eng Civil Engineering 4.5 yrs experience
Linda Makhubela	Materials Handling Contracts Manager (Eskom)	Contracts Management	BSc. (Hons) Chemistry MSc. Engineering and Business Management 9 yrs experience
Mandla Xaba	Mechanical Engineer (Eskom)	Ash Plant System Engineer	BSc. Mechanical Engineering 6 yrs experience
Linda Khuzwayo	Senior Technician (Eskom)	Contract Supervision	National Diploma (Mechanical Engineering) 6 yrs experience
Mark Cooke	Site Supervisor (Roshcon)	Site Supervision	Matric 4 yrs experience
Koos Du Plessis	Site Manager (Roshcon)	Site Management	National Diploma (Project Management) 22 yrs experience
Lerato Lephoto	Safety Officer (Roshcon)	Safety	Matric 4.5 yrs experience
Vusi Msiza	Contracts Manager (Roshcon)	Contract Management	National Diploma (Project Management) National Diploma (Civil Engineering) 9 yrs experience

4.4 Financial Provisions

Provide a plan of estimated expenditure for the following:

	ATTACHED/NOT ATTACHED	SECTION OF THE REPORT WHERE IT IS ATTACHED
Environmental Monitoring	Not Attached	The information will be provided at EIR/ESR
Provision and replacement of infrastructure	Not Attached	
Restoration and aftercare	Not Attached	

SECTION 5: LANDFILL PARAMETERS

5.1 The method of disposal of waste:

Land-building



Land-filling



Both



The dimensions of the disposal site in metres

	At commencement	After rehabilitation
Height/Depth	Unknown at this stage – however footprint is estimated to be 955 ha requiring 156.2 million m ³ of air space	
Length		
Breadth		

5.2 The total volume available for the disposal of waste on the site:

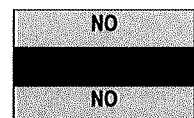
Volume Available	Mark with "X"	Source of information (Determined by surveyor/ Estimated)
Up to 99		
100-34 999		
35 000- 3,5 million		
>3,5 million	X	<p>Majuba Power Station is anticipated to ash approximately 460 000 tons per month until the end of its life span in 2045 (approximately 33 years)</p> <p>This ash dump shall be able to accommodate the ashing requirements of the power station for the next 33 years, from 2012 to 2045.</p>

5.3 The total volume already used for waste disposal:

(a) Will the waste body be covered daily

(b) Is sufficient cover material available

(c) Will waste be compacted daily



If the answers (a) and/or (b) are No, what measures will be employed to prevent the problems of burning or smouldering of waste and the generation of nuisance?

The waste disposal facility is an Ash Dump at the Majuba Power Station. A dust covering is done in the dry season and rehabilitation is done on completed work areas. In addition to this compaction is done prior to conveyor shifts – ash is normally stacked and dosed.

5.4 The Salvage method

Mark with an "X" the method to be used.

- At source
- Recycling installation
- Formal salvaging
- Contractor
- No salvaging planned

X

5.5 Fatal Flaws for the site:

Indicate which of the following apply to the facility for a waste management activity:

- Within a 3000m radius of the end of an airport landing strip
- Within the 1 in 50 year flood line of any watercourse
- Within an unstable area(fault zone, seismic zone, dolomitic area, sinkholes)
- Within the drainage area or within 5 km of water source
- Within an area with shallow and/or visible water table
- Within an area adjacent to or above an aquifer
- Within an area with shallow bedrock and limited available cover material
- Within 100 m of the source of surface water
- Within 1km from the wetland
- Indicate the distance to the boundary of the nearest residential area
- Indicate the distance to the boundary of the industrial area

	NO
YES	
	NO
YES	
	NO
	NO
	NO
YES	
YES	
	12.5 km (Perdekop)
	1.3 km (Majuba Power Station)

5.6 Wettest six months of the year

- November- April
- May -October

X

5.7 For the wettest six month period indicated above, indicate the following for the preceding 30 years

Only rainfall data from January 2007 – August 2012 was available for the Majuba Power Station – please note that this data is unverified.

	Total rainfall for 6 months	Total A-pan evaporation for 6 months	Climatic water balance
For the 1 st wettest year - 2009	694.4	-	--
For the 2 nd wettest year - 2010	663.8	-	--
For the 3 rd wettest year - 2011	397.3	-	--
For the 4 th wettest year - 2007	277	-	--
For the 5 th wettest year - 2012 – to date	254.5	-	--
For the 6 th wettest year - 2008	238	-	--
For the 7 th wettest year	-	-	--
For the 8 th wettest year	-	-	-
For the 9 th wettest year	-	-	-
For the 10 th wettest year	-	-	-


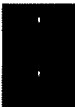



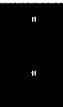
5.8 Location and depth of ground water monitoring boreholes:

Codes of boreholes	Borehole locality	Depth (m)	Latitude	Longitude
AB01	West - Next to western boundary fence - downstream from dam AP03.	37	-27.10710	29.73820
AB02	South - Next to farm gate in field in the south.	28	-27.12210	29.75860
AB03	East - About 100m south east of dam AP01 between 3 poles.	39	-27.10920	29.75810
AB04	N East - Between road and fence north of bridge.	31.5	-27.10220	29.75940
AB05	*Wind pump SE of ashing area. Labelled B5 or B13 in previous reports	-	-27.11970	29.75203
AB07	Old disused borehole (about 20m east of cement dam).	17.5	-27.11740	29.75120
AB08	South W - On side of hill outside new security fence.	-	-27.12240	29.74310
AB09	South - Wind pump on farm south of Ashing area.	-	-27.13720	29.75840
AB10	South - Wind pump on farm south of Ashing area.	-	-27.14360	29.74830
AB11	East - In marshy area of Palmiet Spruit - north east of AB02.	41.5	-27.12000	29.75870
AB12	North - North of dam AP02.	33	-27.10100	29.74620

AB13	North - North of dam AP02.	36	-27.10070	29.74340
AB14	S West - Next to western fence.	33.5	-27.11340	29.73850
AB23	West - Windmill about 100m from fence.	-	-27.11110	29.73940
AB26	Under big dam at ash	44	-27.10510	29.75770
AB29	Background borehole east of ashing area	-	-27.10498	29.73280
AB30	South eastern corner next to fence - Deep	40	-27.11364	29.75704
AB31	South eastern corner next to fence - Shallow	18	-27.11361	29.75704
AB32	North-west of AB03	36	-27.10871	29.75748
AB33	S Western corner in cleared area	16	-27.11512	29.73963
AB34	S Western corner in cleared area	52	-27.11506	29.73957
AB35	North of ash stack next to fence.	15	-27.10139	29.75274
AB36	North of ash stack next to fence.	36	-27.10140	29.75271
CB20	Borehole near tar road, opposite bridge.	28.5	-27.09030	29.79150
CB22	In Coal Stockyard near road.	36.5	-27.11390	29.78650
CB27	North of Coal Stock Yard.	43.5	-27.10520	29.78170
CB28	East of new railway line next to trench CC08.	41.5	-27.10460	29.79130
PB15	In corner of conveyer and PS fence.	40	-27.10380	29.76170
PB16	In game reserve, most northern fence.	40	-27.07840	29.76590
PB17	Next to western fence of sewerage plant.	38	-27.08960	29.77300
PB18	Destroyed - Was next to road and raw water dam- Replaced by PB37	36	-27.09570	29.77930
PB19	At solid waste site, next to gravel road.	35	-27.11810	29.77080
PB24	SW of Power Station.	36.5	-27.10180	29.76220
PB25	Under Emergency dam.	40	-27.08280	29.76790
PB37	Next to road and raw water dam.	36	-27.09649	29.78000

5.9 Location and depth of landfill gas monitoring test pit:

Not Applicable – the Majuba Power Station does not have gas monitoring boreholes - this application is for an ash dump facility.


Codes of boreholes	Borehole locality	Latitude	Longitude
.....		
.....		
.....		

PART E: DECLARATION BY THE APPLICANT

1. The Applicant

I, Dedre Herbst, declare that I -

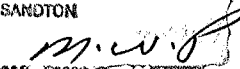
- am, or represent¹, the applicant in this application;
- have appointed / will appoint (delete that which is not applicable) an environmental assessment practitioner to act as the independent environmental assessment practitioner for this application / will obtain exemption from the requirement to obtain an environmental assessment practitioner²;
- will provide the environmental assessment practitioner and the competent authority with access to all information at my disposal that is relevant to the application;
- will be responsible for the costs incurred in complying with the Environmental Impact Assessment Regulations, 2010, including but not limited to -
 - costs incurred in connection with the appointment of the environmental assessment practitioner or any person contracted by the environmental assessment practitioner;
 - costs incurred in respect of the undertaking of any process required in terms of the Regulations;
 - costs in respect of any fee prescribed by the Minister or MEC in respect of the Regulations;
 - costs in respect of specialist reviews, if the competent authority decides to recover costs; and
 - the provision of security to ensure compliance with conditions attached to an environmental authorisation, should it be required by the competent authority;
- will ensure that the environmental assessment practitioner is competent to comply with the requirements of these Regulations and will take reasonable steps to verify whether the EAP complies with the Regulations;
- will inform all registered interested and affected parties of any suspension of the application as well as of any decisions taken by the competent authority in this regard;
- am responsible for complying with the conditions of any environmental authorisation issued by the competent authority;
- hereby indemnify the Government of the Republic, the competent authority and all its officers, agents and employees, from any liability arising out of the content of any report, any procedure or any action which the applicant or environmental assessment practitioner is responsible for in terms of these Regulations;
- will not hold the competent authority responsible for any costs that may be incurred by the applicant in proceeding with an activity prior to obtaining an environmental authorisation or prior to an appeal being decided in terms of these Regulations;
- will perform all other obligations as expected from an applicant in terms of the Regulations;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of regulation 71 and is punishable in terms of section 24F of the Act.


 Signature of the applicant³/ Signature on behalf of the applicant:

Eskom Holdings SOC Limited
 Name of company (if applicable):

17/08/2012
 Date:

HANDEKENING VAN VERLAARDE/SIGNATURE OF DECLARANT Ek verklaar dat die verklaarde hierin dat hijsy verklaard is, die streeklus van die werking van die bevoegdheid is in my teenwoordigheid oorgeleë en dat die verklaring in my teenwoordigheid oorgeleë is. I declare that the deponent has acknowledged that he/she knows the content of the declaration and that the deponent's signature was placed in my presence.	
REPUBLIC OF SOUTH AFRICA DEPARTMENT OF JUSTICE OF THE PEACE KOMmissaris VAN EDELIKHEIT/MISSIONARY LEGAL OFFICER N.E. Volle voornam en agternam Full first name and surname (Druk in swart/Block letters)	
SAHAYANINWE Amp (rang) Designation (rank)	
Ex Officio Republic of South Africa	
Besigholdsadres Business address BESKERMINGSDIENSTE MEGAWATT PARK MAXWELLYLAAN SANDTON PROTECTIVE SERVICES MAXWELL DRIVE SANDTON	

17.08.2012 

¹ If this is signed on behalf of the applicant, proof of such authority from the applicant must be attached.
² If exemption is obtained from appointing an EAP, the responsibilities of an EAP will automatically apply to the person conducting the environmental impact assessment in terms of the Regulations.
³ If the applicant is a juristic person, a signature on behalf of the applicant is required as well as proof of such authority.