



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

	(For official use only)
File Reference Number:	12/12/20/ or 12/9/11/L
NEAS Reference Number:	DEAT/
Date Received:	

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 the Proposed Extension of Ash Dams at the Hendrina Power Station, Mpumalanga

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):

The Hendrina Power Station, in the Mpumalanga Province currently uses a wet ashing system for the disposal of ash utilizing five ash dams. Two ash dams (Ash dam 3 and 5) are currently in operation, while the other three dams (Ash dam 1, 2 & 4) are in use due to either having reached their full capacity (Dams 1 and 4) or due to stability issues (Dam 2). At the current rate of disposal Dams 3 and 5 will reach full capacity within five years;

The Hendrina Power Station is anticipated to ash approximately 64.8 million m³ until the end of its life span which is currently estimated to be 2035. It is clear that the existing ashing facilities are not able to provide sufficient capacity for this amount of ash. Therefore, Hendrina Power Station propose to extend its ashing facilities and associated infrastructure with the following development specifications:

- Airspace of 43.3 million m³
- Ground footprint of 139 ha

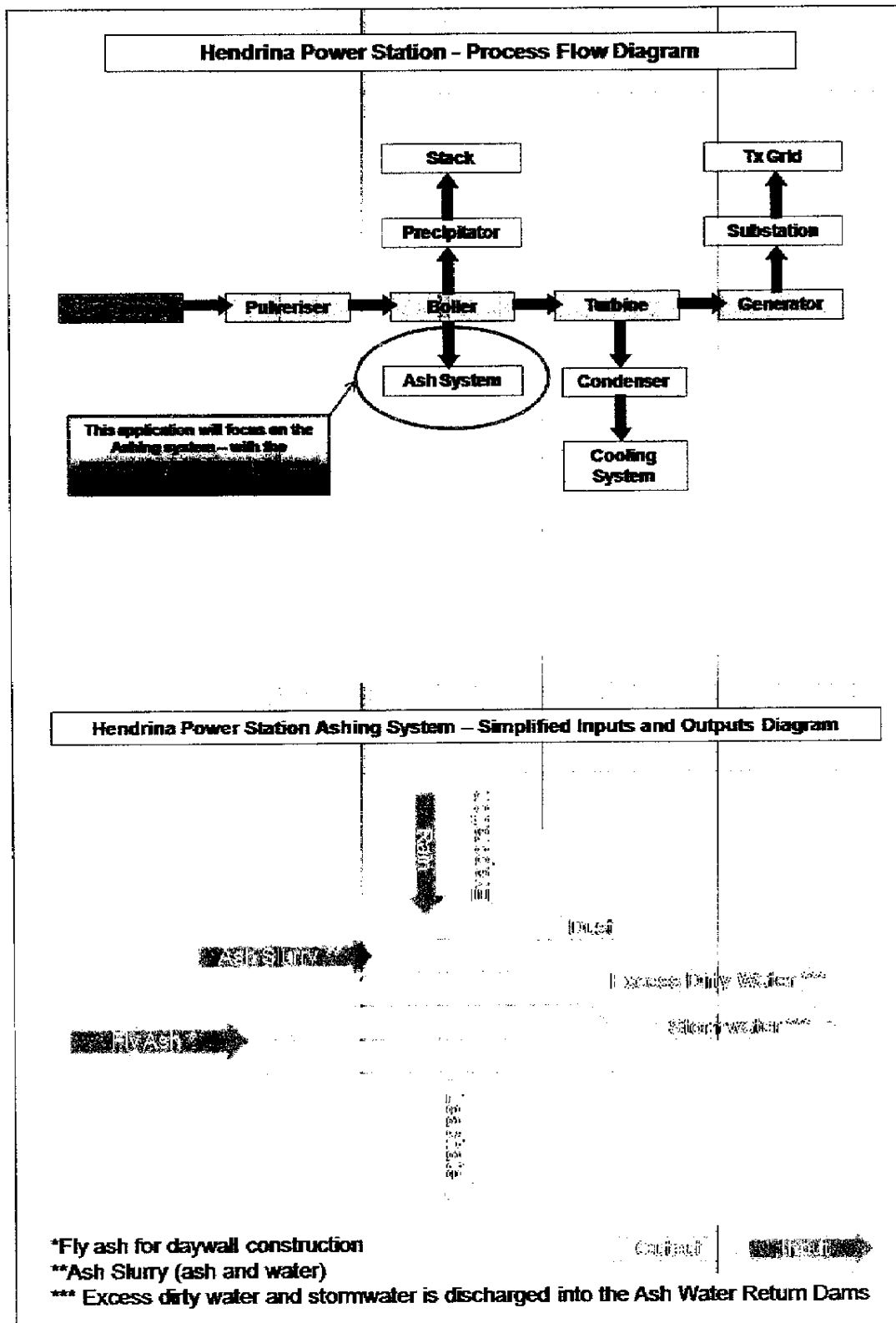
The need for this extension is to allow station to continue ashing in an environmentally responsible way for life of station, which is related to the high ash content in the coal and an urgent need to extend station life.

Purpose of application:

The purpose of the application is to, on behalf of the applicant – Eskom Holdings Limited, apply for 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 dam 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.



3. BACKGROUND INFORMATION

Project applicant:	Eskom Holdings Limited (Hendrina Power Station)	
Trading name (if any):	As Above	
Contact person:	Julian Nair (Power Station Manager)	
Physical address:	Hendrina Power Station, Mpumalanga	
Postal address:	Private Bag X 1003, Pullenshope	
Postal code:	1096	Cell: [REDACTED]
Telephone:	013 296 3400	Fax: 013 296 3569
E-mail:	NairJ@eskom.co.za	

Landowner:	Alternative Sites have not yet been identified. Landowner details will be provided once alternative sites have been finalised.	
Contact person:	[REDACTED]	
Postal address:	[REDACTED]	
Postal code:	[REDACTED]	Cell: [REDACTED]
Telephone:	[REDACTED]	Fax: [REDACTED]
E-mail:	[REDACTED]	

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 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:

Nearest town or districts:

Contact person:

Postal address:

Postal code:

Telephone:

E-mail:

Steve Tshwete Local Municipality	
Hendrina	
Mr WD Fouche (Municipal Manager) Mr M Mahamba (HOD: Town Planning Services)	
PO Box 14, Middelburg	
1050	Cell: [REDACTED]
013 249 7000	Fax: 013 243 2550
[REDACTED]	[REDACTED]

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:

<p>The following farms are within the study area for the screening study. The study area covers an area with an 8km radius around the power station. Alternative sites will be identified from within this area.</p>	
•	ROODEPOORT 151 IS Portion 13, 14, 17, and 18
•	PULLENS HOPE 155 IS Portion 2, 3, 5, 6, 8, 9, 12 and Remainder
•	DRIEFONTEIN 153 IS Portion 1, 4, 6, 7, 8, 9, 10, 11, 22, 23, 24, 25, 29, 30, 37, 38, 41 and Remainder
•	DRIEPAN 156 IS Portion 1, 2, and 3
•	BOSCHMANSKOP 154 IS Portion 1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13, 14, and 19
•	GROOT DRAKENSTEIN 157 IS Portion 1
•	ABERDEEN 158 IS Portion 1
•	ROODEPOORT 151 IS Portion 1, 2, 3, 5, 8, 9, 10 and Remainder
•	HENDRINA POWER STATION 162 IS Portion 1, 2, 3, 4, 6, and Remainder
•	OPTIMUM 554 IS Remainder
•	DE PAARL 560 IS Remainder
•	OPTIMUS 480 JS Portion 2, 3, 4 and Remainder
•	ZEVENFONTEIN 484 JS Remainder
•	BOTHASHOEK 475 JS Portion 1, 2, 4 and Remainder

(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	X	Recreation	
Agriculture	X	Commercial	
Residential		Mining & quarrying	X
Forestry		Wilderness areas	
Wetlands		Nature area	
Open spaces			

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 (erffarm/portion) reference numbers for all sites (including portions of sites) that are part of the application.

The following farms are within the study area for the screening study. The study area covers an area with an 8km radius around the power station. Alternative sites will be identified from within this area.

T	0	I	S	0	0	0	0	0	0	0	0	1	5	1	0	0	0	1	3
T	0	I	S	0	0	0	0	0	0	0	0	1	5	1	0	0	0	1	4
T	0	I	S	0	0	0	0	0	0	0	0	1	5	1	0	0	0	1	7
T	0	I	S	0	0	0	0	0	0	0	0	1	5	1	0	0	0	1	8
T	0	I	S	0	0	0	0	0	0	0	0	1	5	3	0	0	0	0	0
T	0	I	S	0	0	0	0	0	0	0	0	1	5	3	0	0	0	0	1
T	0	I	S	0	0	0	0	0	0	0	0	1	5	3	0	0	0	0	4
T	0	I	S	0	0	0	0	0	0	0	0	1	5	3	0	0	0	0	6
T	0	I	S	0	0	0	0	0	0	0	0	1	5	3	0	0	0	0	8
T	0	I	S	0	0	0	0	0	0	0	0	1	5	3	0	0	0	0	9
T	0	I	S	0	0	0	0	0	0	0	0	1	5	3	0	0	0	1	0
T	0	I	S	0	0	0	0	0	0	0	0	1	5	3	0	0	0	1	1
T	0	I	S	0	0	0	0	0	0	0	0	1	5	3	0	0	0	2	2
T	0	I	S	0	0	0	0	0	0	0	0	1	5	3	0	0	0	2	3
T	0	I	S	0	0	0	0	0	0	0	0	1	5	3	0	0	0	2	4
T	0	I	S	0	0	0	0	0	0	0	0	1	5	3	0	0	0	2	5
T	0	I	S	0	0	0	0	0	0	0	0	1	5	3	0	0	0	2	9
T	0	I	S	0	0	0	0	0	0	0	0	1	5	3	0	0	0	3	0
T	0	I	S	0	0	0	0	0	0	0	0	1	5	3	0	0	0	3	7
T	0	I	S	0	0	0	0	0	0	0	0	1	5	3	0	0	0	3	8
T	0	I	S	0	0	0	0	0	0	0	0	1	5	3	0	0	0	4	1
T	0	I	S	0	0	0	0	0	0	0	0	1	5	4	0	0	0	0	1
T	0	I	S	0	0	0	0	0	0	0	0	1	5	4	0	0	0	0	3
T	0	I	S	0	0	0	0	0	0	0	0	1	5	4	0	0	0	0	4
T	0	I	S	0	0	0	0	0	0	0	0	1	5	4	0	0	0	0	5

T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	5	4	0	0	0	0	6
T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	5	4	0	0	0	0	7
T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	5	4	0	0	0	0	8
T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	5	4	0	0	0	0	9
T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	5	4	0	0	0	1	0
T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	5	4	0	0	0	1	1
T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	5	4	0	0	0	1	3
T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	5	4	0	0	0	1	4
T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	5	4	0	0	0	1	9
T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	5	5	0	0	0	0	0
T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	5	5	0	0	0	0	2
T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	5	5	0	0	0	0	3
T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	5	5	0	0	0	0	5
T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	5	5	0	0	0	0	6
T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	5	5	0	0	0	0	8
T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	5	5	0	0	0	0	9
T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	5	5	0	0	0	1	2
T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	5	6	0	0	0	0	1
T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	5	6	0	0	0	0	2
T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	5	6	0	0	0	0	3
T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	5	7	0	0	0	0	1
T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	5	8	0	0	0	0	1
T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	5	1	0	0	0	0	0
T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	5	1	0	0	0	0	1
T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	5	1	0	0	0	0	2
T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	5	1	0	0	0	0	3
T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	5	1	0	0	0	0	5
T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	5	1	0	0	0	0	8
T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	5	1	0	0	0	0	9
T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	5	1	0	0	0	1	0
T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	6	2	0	0	0	0	0
T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	6	2	0	0	0	0	1
T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	6	2	0	0	0	0	2
T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	6	2	0	0	0	0	3
T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	6	2	0	0	0	0	4
T	0	I	S	0	0	0	0	0	0	0	0	0	0	1	6	2	0	0	0	0	6
T	0	I	S	0	0	0	0	0	0	0	0	0	0	5	5	4	0	0	0	0	0
T	0	I	S	0	0	0	0	0	0	0	0	0	0	5	6	0	0	0	0	0	0
T	0	J	S	0	0	0	0	0	0	0	0	0	0	4	8	0	0	0	0	0	0
T	0	J	S	0	0	0	0	0	0	0	0	0	0	4	8	0	0	0	0	0	2
T	0	J	S	0	0	0	0	0	0	0	0	0	0	4	8	0	0	0	0	0	3
T	0	J	S	0	0	0	0	0	0	0	0	0	0	4	8	0	0	0	0	0	4
T	0	J	S	0	0	0	0	0	0	0	0	0	0	4	8	4	0	0	0	0	0
T	0	J	S	0	0	0	0	0	0	0	0	0	0	4	7	5	0	0	0	0	0
T	0	J	S	0	0	0	0	0	0	0	0	0	0	4	7	5	0	0	0	0	1
T	0	J	S	0	0	0	0	0	0	0	0	0	0	4	7	5	0	0	0	0	2
T	0	J	S	0	0	0	0	0	0	0	0	0	0	4	7	5	0	0	0	0	4
1		2																			5

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./Scheme 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)

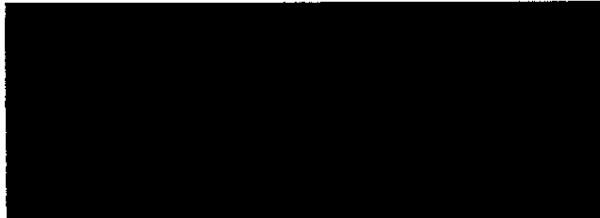
4.2 If the property type is not surveyed, complete the following:

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 metres in length for the bulk transportation of water, sewage or stormwater (i) with an internal diameter of 0.36 metres or more; or (ii) with a peak throughput of 120 litres per second or more.
	10	The construction of facilities or infrastructure for the transmission and distribution of electricity outside urban areas or industrial complexes with a capacity of more than 33 but less than 275 kV
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

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)?

YES 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 NO

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 May / June 2011

The S&EIR report will be submitted

YES NO

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	1	The storage including the temporary storage of hazardous waste in lagoons
	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 May / June 2011

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

139 ha

Area where the waste management activity takes place

Hendrina Power Station

Classification of facility in terms of climatic water balance

unknown

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

Ash Dam

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 6 590.56 m³ per day. This translates to approximately 15 158.28 tons per day (utilising a specific gravity for fly ash of 2.3)

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

Determined from volumes

Determined with weighbridge/scale

Estimated

X

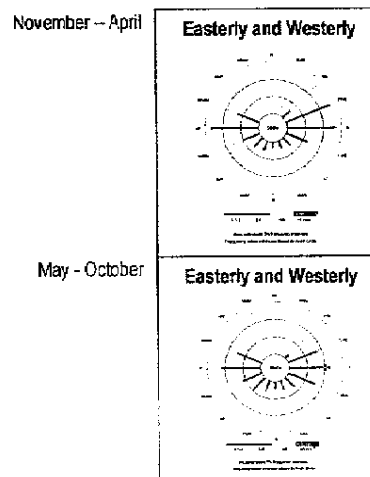
2.2 Recovery, Reuse, Recycling, treatment and disposal quantities:

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	Hendrina Power Station		Approximately 200 462.96m ³	On site disposal Method not yet known (could be wet or dry disposal or other new methodology)		

SECTION 3: GENERAL

3.1 Prevailing wind direction (e.g. NWW)



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		Quartzite	X
Shale	X	Dolomite	
Sandstone	X	Dolerite	X

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 Hendrina 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?

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

Eskom contract an external Pr. Eng to oversee that the ash dams are in good condition and operating as required. Roshcon is also contracted by Eskom to operate the ash dams and supervise all the activities taking place at the ash dams

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 January 2011, it should be noted that the specific people involved may change from time to time.			
Nico Barnard	External consultant	See attached job description	Pr Eng
Roshcon	External contractor	Appointed by Eskom to assist with the overall operation of the ashing system	Pr Eng and relevant previous experience with regards to operating ash dams

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	This information is as yet unknown – further details to be provided once it is available.
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 139 ha requiring 43 300 000 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	Hendrina Power Station is anticipated to ash approximately 64.2 million m ³ until the end of its life span in 2035 (approximately 24 years) – 20.9 million m ³ of this can be accommodated in the existing ash dam facilities, therefore an additional 43.3 million m ³ storage space is required.

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

YES	NO
NO	NO

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 Dam at the Hendrina Power Station.
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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:

Unknown as yet – the alternative facility sites still have to be determined through a site screening process. However, all of those listed will be included as fatal flaws within the screening process and the selection of the preferred site will aim to ensure that none of these fatal flaws are on the site, as far as possible.

- 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

--

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 September 2009 – December 2010 was provided by Eskom – therefore only the 6 month period from November 2009 to April 2010 is provided here. More data can be provided once it is made available.

	Total rainfall for 6 months	Total A-pan evaporation for 6 months	Climatic water balance
For the 1 st wettest year	940.5	No evaporation data provided	-
For the 2 nd wettest year	797	No evaporation data provided	-
For the 3 rd wettest year	712.8	No evaporation data provided	-
For the 4 th wettest year	594.6	No evaporation data provided	-
For the 5 th wettest year	531.5	No evaporation data provided	-
For the 6 th wettest year	498.5	No evaporation data provided	-
For the 7 th wettest year	440.5	No evaporation data provided	-
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:

Please take note of the following Key:

**A = Ashing Area
B = Boreholes
C = Coal Stockyard
D = Dams
P = Power Station Area**

Also – due to information available the depth indicated here is the sample depth and not the actual depth

Also see attached map of boreholes on site

Codes of boreholes	Borehole locality	Depth (m)	Latitude	Longitude
AB01	SW corner of ash dam 4	26	-26.06410	29.58910
AB03	Below ash water dams E of ash dam 4	25	-26.06690	29.60500

AB05	W entrance to new ash dam 4	9	-26.05540	29.59520
AB06 (DB05)	-	-	-	-
AB07	Final ash water return dams N of ash dams 1 and 2	24	-26.04400	29.60100
AB08	NE corner of ash dams 1 and 2	17	-26.04530	29.61060
AB09	Return Ash Water dam E of ash dams 1 and 2	17	-26.04910	29.60840
AB43	Below workers huts – E of ashing extension (ash dam 5)	15	-26.06280	29.60550
AB44	South of Ash Dam 4 next to road	20	-26.06710	29.59410
AB45	Between workers huts and dam wall	27	-	-
AB53	Pullenshope Station – SW of station building	10	-26.04650	29.60080
AB58	Pullenshope Station - E	15	-26.04560	29.60200
AB89	Between workers huts and dam wall	-	-26.05525	29.60971
AB90	NE Corner of ash dam	deep	-26.06795	29.59724
AB91	NE Corner of ash dam	shallow	-26.06795	29.59724
CB16	Inside fence – E of coal stockpile, next to sump	9	-26.03020	29.60690
CB42	E of Dam D17 in field	15	-26.02910	29.61070
CB47	E of coal stockyard area – outside fence	38	-26.03440	29.60620
CB48	E of coal stockyard, E of railway line	10	-26.03170	29.61380

CB59	SE of Coal stockyard on mine property	15	-26.03950	29.60910
CB60	Between coal stage and Coal stockyard	8	-26.03149	29.60375
CB61	E of railway line and Coal stockyard on mine property	15	-26.03644	29.60655
PB12	N of domestic waste site	34	-26.03400	29.58560
PB13 (DB13)	Downstream from sewage maturation pond	8	-	-
PB14	At oil skimmers & effluent dams	13	-26.03280	29.58930
PB15	Next to gravel road to southern security gate	19	-26.03710	29.59470
PB36	Hand pump SIS farming at workers huts W of domestic waste site	pump	-26.03740	29.57980
PB38	Private dealer S of soccer field	pump	-26.03990	29.59300
PB40	Next to tar road at sleeping quarters	6	-26.03720	29.59020
PB41	E of Borehole PB15 in field	6	-26.03770	29.59550
PB46	-	-	-	-
PB49	Between soccer field and living quarters	16	-26.03740	29.59390
PB50	Borehole downstream and N of dam PD02	6	-26.02710	29.59340
PB51	N of northern cooling towers – on golf course	23	-26.02440	29.60280

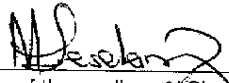
PB52	N of coal stockyard area – on golf course	24	-26.02560	29.50770
PB54D	NW of Raw Water Dam	15	-26.03880	29.59870
PB54S	NW of Raw Water Dam	2	-26.03880	29.59870
PB55D	NW of Raw Water Dam	15	-26.03920	29.59760
PB55S	NW of Raw Water Dam	2	-26.03920	29.59760
PB56D	NW of Raw Water Dam	15	-26.04010	29.59870
PB56S	NW of Raw Water Dam	2	-26.04010	29.59870
PB57D	NW of Raw Water Dam	15	-26.03820	29.59150
PB57S	NW of Raw Water Dam	3	-26.03820	29.59150
PB80	Borehole at oil treatment sell at Southern cooling towers. N of Raw Dam	Top	-26.03693	29.60302
PB81	Borehole at oil treatment sell at Southern cooling towers. N of Raw Dam	Top	-26.03876	29.60347
PB82	Borehole at bulk fuel oil tanks	Top	-26.03398	29.60238
PB83	Borehole at bulk fuel oil tanks	Top	-26.03355	29.60226
PB84	Borehole at bulk fuel oil tanks	Top	-26.03372	29.60150
PB85	Borehole at oil treatment sell at Southern cooling towers. N of Raw Dam	Top	-26.03797	29.60410

PART E: DECLARATION BY THE APPLICANT

1. The Applicant

I, M.R. Lesolana 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 Limited – Hendrina Power Station

Name of company (if applicable):

Date:

2011-01-28

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.