

# APPLICATION FORM

(For official use only)

<b>File Reference Number:</b>					
<b>Application Number:</b>					
<b>Date Received:</b>					

## Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2006

Kindly note that:

1. This application form is current as of 1 July 2006. It is the responsibility of the EAP to ascertain whether subsequent versions of the form have been published or produced by the competent authority.
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. It is in the form of a table that can extend itself as each space is filled with typing.
3. Where applicable black out the boxes that are not applicable in the form.
4. Incomplete applications may be returned to the applicant for revision.
5. The use of "not applicable" in the form must be done with circumspection as if it is used in respect of material information that is required by the competent authority for assessing the application, and may result in the rejection of the application as provided for in the regulations.
6. This application must be handed in at the offices of the relevant competent authority as determined by each authority.
7. No faxed or e-mailed applications will be accepted.
8. The application must be completed by an independent environmental practitioner.
9. 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.

### SITE IDENTIFICATION AND LINKAGE

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.

N	O	F	T	0	0	0	0	0	0	0	0	1	1	7	5	0	0	0	0	8

(If there are more than 10, please attach a list with the rest of the number)  
 (These numbers will be used to link various different applications, authorisations, permits etc. that may be connected to a specific site)

## APPLICATION FORM

### 1. BACKGROUND INFORMATION

Project applicant:	Eskom Holdings Limited (Transmission)		
Trading name (if any):	Eskom Holdings Limited		
Contact person:	Ms Minamoloko Seabe		
Physical address:	Megawatt Park, Maxwell Drive, Sunninghill		
Postal address:	PO Box 1091, Johannesburg		
Postal code:	2000	Cell:	
Telephone:	011 800 2345	Fax:	011 800 3917
E-mail:	Jeanette.seabe@eskom.co.za		

Project consultant:	ACER (Africa) Environmental Management Consultants		
Contact person:	Dr R-D Heinsohn		
Postal address:	PO Box 503, Mtunzini		
Postal code:	3867	Cell:	083 626 5772
Telephone:	035 340 2715	Fax:	035 340 2232
E-mail:	dieter.heinsohn@acerafrica.co.za		
Professional affiliation(s) (if any)	SACNASP Professional Natural Scientist Reg. 400442/04		

Landowners:	Eskom Holdings Limited		
Contact person:	Ms Mamokete Mafumo		
Postal address:	PO Box 1091, Johannesburg		
Postal code:	2000	Cell:	082 902 7166
Telephone:	011 800 2621	Fax:	011 800 3917
E-mail:	Mamokete.mafumo@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.

Local authority in whose jurisdiction the proposed activity will fall:	Msunduzi Local Municipality (KZN225)		
Contact person:	Mr Rob Haswell, Municipal Manager		
Postal address:	Private Bag 321, Pietermaritzburg		
Postal code:	3201	Cell:	
Telephone:	033 392 3000	Fax:	033 392 2397
E-mail:	kavina@msunduzi.gov.za		

Project title:	Expansion of the Ariadne Sub-station and realignment of existing transmission lines to accommodate a new transmission power line (as part of the proposed 400 kV Ariadne-Eros transmission line project).		
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### Justification, Need and Project Description:

South Africa has been experiencing growth in excess of 4% per annum over the past seven years, which led to the increase in electricity demand far exceeding the 2.3% per annum which was initially forecast. In 2007 alone, electricity demand grew by 4.9%, and it is forecast to grow even faster as the economy approaches the Government's target of 6% sustainable economic growth by 2014.

According to the ASGISA Electricity Load Forecast for 2008-2017, the KwaZulu-Natal (KZN) demand growth is estimated at 4.4% per annum. Accordingly, the Eskom Transmission Development Plan (TDP) indicates that the power corridor to the Eastern and South Coast Regions needs to be strengthened in order for Eskom Transmission to meet future growth in electricity demand in KZN, to avoid load shedding as a result of limited transmission capacity, and to comply with Grid Code Requirements. This strengthening entails the phased construction of 765 kV and 400 kV transmission lines into the Empangeni and Pinetown Customer Load Networks (CLN).

At present, only one 400 kV transmission line runs from the Ariadne Sub-station, near Pietermaritzburg to the Eros Sub-station, near Harding. It is a Grid Code Requirement that the transmission network must be able to withstand loss of one of its lines or transformers, while still maintaining electricity supply. This means that a second transmission line between these two sub-stations is required. Furthermore, Preliminary Master Plan studies conducted by Eskom Distribution indicate that the load on the Eros Sub-station is expected to increase from 250 MVA in 2008 to 300 MVA in 2010 and upwards to approximately 450 MVA in 2022. An additional load of 250 MVA by 2022 is forecast for the Oribi Sub-station, near Port Shepstone, which also indicates a need for a 400 kV injection to this sub-station.

In order to address the above, the strengthening of the KZN transmission line network is proposed. This means that increased electricity transmission infrastructure is required to transmit increased electricity volumes from the generation centres in Mpumalanga, into KZN. This entails a number of different components, which have been divided into five sections:

- Section 1: Two 765 kV lines from the Alpha Sub-station, near the Thuthuka Power Station to the Majuba Sub-station, near Amersfoort, Mpumalanga, over a distance of approximately 50 km.
- Section 2: A 765 kV line from the Majuba Sub-station to the Venus Sub-station, near Estcourt, KZN, over a distance of approximately 200 km.
- Section 3: A 765 kV line continuing from the Venus Sub-station to a proposed new Sigma Sub-station, in the Albert Falls/Greytown area, KZN, over a distance of approximately 100 km.
- Section 4: A 400 kV double circuit transmission line from the proposed new Sigma Sub-station to the Hector Sub-station, close to Cato Ridge. A second part of this section includes a new 400 kV conductor installed on the existing Ariadne-Hector 400 kV double circuit line, which currently has one vacant circuit.
- Section 5: A 400 kV line from the Ariadne Sub-station, near Pietermaritzburg to the Eros Sub-station near Harding, KZN, over a distance of approximately 117 km or 178 km, depending on the route followed (inland and coastal routes are under consideration).

There are two route options for Section 5, an In-land Route and a Coastal Route. Two separate applications are being submitted for these two routes. Regardless of the route alignment followed, extension of the Ariadne sub-station will be required in order to accommodate the new line. This application is, thus, for the extension of the Ariadne sub-station.

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**Property description:** Ariadne Sub-station (site located on Portion 8 of Farm 1175, Regional division FT).  
(Farm name, portion etc.) Where a large number of properties are involved (e.g. linear activities), please attach a full list to this application.

**Town(s) or district(s):** KwaZulu Natal Province –Ariadne Sub-station: Ashburton, Umgungundlovu District Municipality.  
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 zoning:** Agricultural (livestock farming, grazing, forestry)  
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? YES   
Must a building plan be submitted to the local authority? NO

**Locality map:** See Appendix A.

**Owners consent:** In line with the requirements of the EIA regulations, letters of consent of all landowners or a detailed explanation by the applicant explaining why consent is not possible must be attached to the back of this document as Appendix B.

### 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 number and date of the relevant notice:	Activity No (s) (in terms of the relevant or notice) :	Describe each listed activity:
No. R. 387 21 April 2006	1(c)	The above ground storage of dangerous goods, including petrol, diesel, liquid petroleum gas or paraffin, in containers with a combined capacity of more than 1,000 m <sup>3</sup> at any one location or site, including the storage of one or more dangerous goods, in a tank farm.
No. R. 387 21 April 2006	1(l)	The construction of facilities or infrastructure, including associated structures or infrastructure for the transmission and distribution of above ground electricity with a capacity of 120 kilovolts or more.
No. R. 387 21 April 2006	2	Any development activity, including associated structures or infrastructure, where the total area is, or intended to be, 20 hectares or more.
No. R. 386 21 April 2006	12	The transformation or removal of indigenous vegetation of 3 hectares or more or of any size where the transformation or removal would occur within a critically endangered or an endangered ecosystem listed in terms of section 52 of the National Environmental Management: Biodiversity Act, 2004 (Act No. 10 of 2004).
No. R. 386 21 April 2006	14	The construction of masts of any material or type and of any height, including those used for telecommunication broadcasting and radio transmission.
No. R. 386 21 April 2006	15	The construction of a road that is wider than 4 meters or that has a reserve wider than 6 meters, excluding roads that fall within the ambit of another listed activity or which are access roads less than 30 metres long.
No. R. 386 21 April 2006	20	The transformation of an area zoned for use as public open space for a conservation purpose to another use.

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Please note that any authorisation that may result out of this application will only cover activities applied for. Omissions may render any authorisation that is based on incomplete information to be nil and void.

## 3. Type of application

### 3.1 Application for Basic Assessment

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

YES  NO

[Redacted area]

### 3.2 Application for Scoping and Environmental Impact Assessment (EIA)

Is this an application for Scoping and EIA (as defined in the regulations)?

YES  NO

If YES, is a Scoping Report and Plan of Study for EIA attached?

YES  NO

If NO, please indicate when the Scoping Report and Plan of Study for EIA will be submitted:

Draft Scoping Report = Third quarter 2008  
Final Scoping Report = Fourth quarter 2008  
Plan of Study for Impact Assessment = Fourth quarter 2008

The scoping report and/or the plan of study for EIA will be submitted after consultation with the competent authority:

YES  NO

A consultation with the competent authority is hereby requested:

YES  NO

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4. Declarations

4.1 The independent Environmental Assessment Practitioner

I, Rolf Dieter Heinsohn, declare under oath that I -

- act as the independent environmental practitioner in this application ;
- do not have and will not have any financial interest in the undertaking of the activity, other than remuneration for work performed in terms of the Environmental Impact Assessment Regulations, 2005;
- have and will not have no vested interest in the proposed activity proceeding;
- have no, and will not engage in, conflicting interests in the undertaking of the activity;
- undertake to disclose, to the competent authority, any material information that have or may have the potential to influence the decision of the competent authority or the objectivity of any report, plan or document required in terms of the Environmental Impact Assessment Regulations, 2005;
- will ensure that information containing all relevant facts in respect of the application is distributed or made available to interested and affected parties and the public and that participation by interested and affected parties is facilitated in such a manner that all interested and affected parties will be provided with a reasonable opportunity to participate and to provide comments on documents that are produced to support the application;
- will ensure that the comments of all interested and affected parties are considered and recorded in reports that are submitted to the competent authority in respect of the application, provided that comments that are made by interested and affected parties in respect of a final report that will be submitted to the competent authority may be attached to the report without further amendment to the report;
- will keep a register of all interested and affected parties that participated in a public participation process; and
- will provide the competent authority with access to all information at my disposal regarding the application, whether such information is favourable to the applicant or not.



Signature of the environmental practitioner:

ACER (Africa) Environmental Management Consultants

Name of company:

Date: 8/7/08



Signature of the Commissioner of Oaths:

Date:

08/07/08

Designation:

Official stamp (below)

JACOBUS FREDERICK DU TOIT  
Ex-Officio Commissioner of Oaths  
Practising Attorney R.S.A  
FIRST FLOOR, GOLDEN PENNY CENTRE  
26 HELY HUTCHINSON STR, MTUNZINI  
TEL: (035) 340 1351

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### 4.2 The Applicant

I, Mmamofoko Seabe, declare under oath that I -

- Am, or represent, the applicant in this application;
- appointed the environmental assessment practitioner as indicated under point 4.1 above to act as the independent environmental assessment practitioner for this application;
- 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, 2005, 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;
- 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 for which the applicant or environmental assessment practitioner is responsible in terms of these regulations; and
- will not hold the competent authority responsible for any costs that may be incurred by the applicant in proceeding with an activity prior to an appeal being decided in terms of these regulations.



Signature of the applicant:

Eskom Holdings Ltd Reg. No 2002/15527/06

Name of company:

Date: 28/07/08



Signature of the Commissioner of Oaths:

Date appointed: 04 September 1997

Appointment: 9/1/8/2 Kempton Park (A3)

Date:

31-07-2008

Designation:

Official stamp (below):

EDMOND CECIL LENNOX  
EX OFFICIO  
COMMISSIONER OF OATHS  
DEEDS REGISTRATION  
OFFICER OF ESKOM  
ESKOM  
P.O. BOX 1001  
JOHANNESBURG  
REP. OF SOUTH AFRICA