

Annex B - Distribution Environmental Screening Document (DESD)  
(Informative)

Reticulation Powerlines and Ancillary Services

Ratified and accepted by  
Environmental Practitioner  
Environmental Specialist  
Head of Engineering Survey  
(one signature please)

Accepted by Land Owner/s/Users

J.P. GREY

I have seen the completed document and accept the  
recommendations made

Assessor/s

Form completed by

D. SCHOLTZ

Signature:

in consultation with:

J.P. GREY

Signature:

CAPACITY (e.g. land owner, specialist):

Land owner

DATE COMPLETED:

2014/06/18

Instructions

1. Fill the report in as neatly and completely as possible.
2. Where the question / statement is not applicable mark N/A.
3. Indicate sensitive areas on a map and/or spanning plans.
4. When in doubt, consult the Environmental Practitioner in your region.

The purpose of this DESD is to:

- Determine whether or not the project should be subject to R543 -7, published in terms of the National Environmental Management Act 107 of 1998.
- Identify and mitigate the negative impact of Eskom's activities to a minimum in line with both Legislation and Eskom's Environmental Policies.
- This report is a guide to Route Selection, Construction and Field Services.

**NOTE Complete the report before the survey!!!**

This is not an office exercise.

Extra sheets of paper may be added and referenced if insufficient space has been provided.

PROCEDURE FOR THE ENVIRONMENTAL ASSESSMENT OF  
 RETICULATION AND SUB-TRANSMISSION PROJECTS: ANNEX Q OF  
 THE CAPITAL INVESTMENT PROCEDURE SCSPVABP7 Page 2 of 9

Annex B

1 Project description

Project name/Survey ..... Eskom  
 Request .....  
 Project number ..... PAUL GREY ELEC ..... Area ..... Ermelo .....  
 Rural scheme/ Feeder ..... Emelo West ..... File number .....  
 Supply from ..... VANOUS ..... Voltage ..... 11KV .....  
 (scheme name, pole numbers for tee-off) .....  
 Supply to ..... VANOUS .....  
 (Farm name, etc.) .....

2 Properties traversed

Farm name ..... Uitzicht + .....  
 Registration number and Division ..... 450 IS ..... Sub-division ..... 11, 27 .....  
 Compillation number ..... 2629 DB ..... Line length/Site area (m<sup>2</sup>) ..... MV 3,64 km  
 ..... LV = 3838 km  
 Farm name .....  
 Registration number and Division ..... Sub-division .....  
 Compillation number ..... Line length/Site area (m<sup>2</sup>) .....

3 Brief description of the surrounding area

PAUL GREY VILLAGE SITUATED ON UITZICHT FARM.  
 SLIGHTLY SLOPING SITE. HILLS. SHORT GRASS, FEW  
 LARGE TREES, NO BUSH. HARD SANDY SOIL.  
 FARMING AREA.  
 TRACTORS, HARVESTERS, TRUCKS  
 SMALL FARM DAMS.

Could the proposed project have an impact on or be constrained by any of the following environmental aspects?

Encircle the appropriate aspect, giving a description of the present state as well as an indication of the possible negative impact. Note that mitigating measures for these impacts are to be included in the Environmental Management Programme.

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(continued)

4 Physical environment

4.1 Water: streams rivers dams wetlands Springs floodplains OTHER  
...N/A....

Present condition: N/A Small Farm Dams

Potential impact (e.g. threat of pollution): No.

4.2 Soil: sandy Rocky clayey OTHER .....

Present condition: Hard sandy soil

Potential impact (e.g. of erosion) No

4.3 Topography mountains ridges hills Valley Ravines dongas OTHER .....

Present condition: Slightly sloping

Potential impact (e.g. of erosion) No

Comments/mitigating measures:

Slightly sloping topographical area

Annex B  
 (continued)

5 Natural environment

5.1 Flora:                      indigenous                      Protected                      exotic                      OTHER .....

Brief description and conservation status (e.g. rare, etc., mention trees/bush/grass) .....  
*N/A*

Potential impact (e.g. permit applications) .....  
*No*

5.2 Fauna:                      mammals                      Birds                      OTHER .....

Brief description and conservation status:  
 (e.g. rare, protected, etc., mention giraffe, elephants, eagles, vultures, etc., mention migratory paths)

.....  
*N/A*

Potential impact (e.g. threat of electrocution, collision, etc).....  
*No*

Comments/mitigating measures:

.....  
*N/A*  
 .....  
 .....

6 Social environment

6.1 Restricted areas:      nature/game reserves      hiking trails      tourism routes      parks      recreational areas  
 Residential-areas      green belts      sacred/holy grounds      OTHER .....

Brief description ..... *PAIN COPE VILLAGE* .....

Annex B  
(continued)

Potential impact e.g. threat of encroachment, etc. *No*

6.2 Visual aesthetics: easily seen Hidden partially

Brief description *CLOSE TO MAIN DIER ROAD IN OPEN FIELDS*

Potential impact *No*

6.3 Natural heritage: cultural significance archaeological objects monuments palaeontological objects  
graves Meteorites Ruins OTHER

Note: Should any natural heritage resource as listed above, or as defined in the National Heritage Resource Act, No 25 of 1999 be identified, the requirements of Act 25 of 1999 shall be followed by notifying the SAHRA. If line or access road length exceeds 300m SAHRA shall be notified.

Potential impact *No*

Comments/mitigating measures  
*N/A*

7 Economic environment

7.1 Land use: crops Orchards grazing crop spraying  
game farming forestry areas mining OTHER

Brief description *GRAZING FOR CATTLE AND SHEEP*

Annex B  
(continued)

Potential impact ..... No .....

7.1.1 Commercial:      factories                      Shops                      OTHER .....

Brief description ..... N/A .....

Potential impact ..... No .....

.....

.....

7.1.2 Infrastructure:      roads              railways              communications      power lines      air fields  
                                 pipelines              sewage              OTHER .....

Brief description: ..... EXISTING POWERLINES .....

..... 132 kV POWERLINE .....

Potential impact ..... No .....

.....

.....

Comments/mitigating measures:

..... EXISTING MV FOR 7-07F .....

.....

.....

.....

.....

Annex B  
(continued)

What impact will this project have on elements 4 to 7?

1. Physical

No impact (0)

Medium impact (2)

High impact (4)

2. Natural

No impact (0)

Medium impact (2)

High impact (4)

3. Social

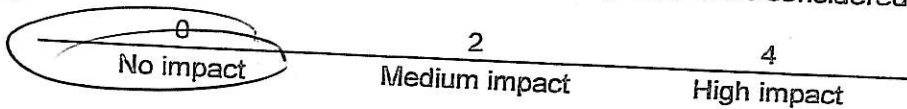
No impact (0)

Medium impact (2)

High impact (4)

Overall impact:

This section addresses the overall environmental impact of the project. The impacts as assessed in the above three spheres (physical, natural and social) need to be considered to determine the overall impact



If the overall impact is between 2 and 4, contact the Environmental Management Officer or the Environmental Senior Superintendent.

Alternatives

Have alternative routes been discussed with the relevant land owner/s or users?

Yes   
No

Detailed study

Is an environmental assessment required in terms of Regulation R543?

Yes   
No

Should a permit application be made to DWA?

Yes   
No

Should the SAHRA be notified?

Yes   
No

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## Annex B - Environmental Management Plan

(continued)

### 1 General conditions

- 1.1 The Eskom project manager or co-ordinator shall be responsible for ensuring that the land owners have been informed before any work is carried out on site. Contractors shall find out if the landowners have been informed before moving onto site.
- 1.2 No fences, gates or locks shall be damaged to obtain access onto a line route. Arrangements shall be made in advance to obtain permission for access.
- 1.3 Use of private roads shall be arranged in advance. Any damage to private roads shall be repaired at the contractor's expense and to the satisfaction of the landowner. This shall be the responsibility of the project manager or co-ordinator.
- 1.4 Gates shall be left as they are found, i.e. closed gates shall be kept closed and open gates shall be left open. Gates to adjacent properties or onto public roads shall be closed at all times. Any Eskom gates installed on the line route shall be kept closed and locked except while stringing is taking place. Open gates shall be guarded to prevent animals straying and unauthorised persons and vehicles entering into adjacent camps or properties.
- 1.5 Permission shall be obtained from landowners before any water is used.
- 1.6 No fires shall be lit on private property. If fires are lit on Eskom's property or in the construction camp, provision shall be made that no accidental fires are started. No firewood shall be collected in the veld.
- 1.7 If activities that can cause a fire are carried out, fire extinguishers shall be available on site and in the construction camp.
- 1.8 No property may be accessed after normal working hours except with the permission of the landowner. Privacy shall be respected at all times.
- 1.9 Eskom, Eskom's contractors and their employees shall at all times be courteous towards landowners, tenants and the local community.
- 1.10 Eskom, Eskom's contractors and their employees shall not cause damage to property, crops or animals. Activities that may cause conflict with landowners, tenants, the local work force or the local community shall be avoided. Should conflict arise it shall be immediately reported to the Eskom project manager or co-ordinator.
- 1.11 Vehicles shall be driven at a moderate speed on private roads and stay within the statutory speed limit on public roads.
- 1.12 All movement of vehicles shall take place on the established Eskom servitude road or on private roads as agreed in advance. Keep to existing tracks. No movement shall take place through the veld. Special care shall be taken to prevent excess damage during wet weather.

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Annex B  
(continued)

- 1.13 If any vehicle should get stuck, the damage shall be repaired immediately so that no deep ruts remain.
- 1.14 Any damage to private property shall immediately be reported to Eskom and the owner. The damage shall be rectified immediately if possible and/or appropriate compensation shall be paid to the owner at the discretion of the project manager/co-ordinator in consultation with the property owner. A record of damages and rectifying action shall be kept. The landowner's satisfaction with the outcome of rectifying action shall be obtained in writing.
- 1.15 A proper system of waste management shall be instituted in the construction camp. This entails that sufficient waste bins are available on site and in the construction camp. The waste shall be dumped at an approved waste disposal site. No containers, scrap metal, conductor etc. shall be left on site.
- All scrap shall be removed and taken to an appropriate disposal site. No oil, diesel or other chemicals shall be spilled or discarded anywhere. If an accidental spill occurs, it shall be reported immediately and cleaned to the satisfaction of Eskom and the landowner. No waste shall be left in the veld or on the line route.
- 1.16 Washing and toilet facilities shall be provided on site and in the construction camp. The facilities shall comply with Eskom standards and shall have the approval of the landowner.
- 1.17 No human excrement shall be left in the veld. If no toilet facilities are available such waste shall be buried *immediately*.
- 1.18 Herbicides shall only be applied with Eskom's permission and in accordance with the Eskom Policy on Herbicides ESKPBAAD4.
- 1.19 Camp and office sites shall be dismantled and removed after completion of the construction phase of the project. The site shall be rehabilitated to as close as possible to its original condition to the satisfaction of the landowner, which shall be in writing.
- 1.20 All excavations shall be enclosed to prevent animals or people from accidentally falling into excavations.
- 1.21 No trees shall be cut or removed without prior permission from the landowner. Permits shall be obtained for the cutting and removal protected trees (protected trees shall be dealt with in 2, Special conditions).
- 1.22 Should any natural heritage object be found, or exposed during excavations, all work shall be terminated immediately and the finding reported to the Project Manager who shall inform the Eskom Environmental Practitioner and the SAHRA.

Annex B  
(continued)

2 Special conditions

(Specific issues identified during the scoping as needing attention i.e. erosion berms, bird flappers, protected trees. etc.).

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.....  
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PERMITS AND LICENSES ASSOCIATED WITH NEW ESKOM Dx 11-132 kV  
 PROJECTS AND MAINTENANCE PROJECTS REQUIRING ENVIRONMENTAL  
 PERMITS AND LICENCES

NEW PROJECTS (A-D)

A) National Environmental Management Act No. 107 of 1998

Section	Description	Y/N	If Yes [Land Development]	Project Management	
24	Is this a listed activity according to the Environmental Impact Assessment or Waste regulations?	N	Have you submitted an application to DEA?	Y	Has the Environmental Authorisation been obtained?
				N	
30	Is this activity being carried out under an emergency?	N	Has an application been submitted to DEA	Y	
				N	

B) National Water Act No. 36 of 1998

Section	Description	Y/N	If Yes [Land Development]	Project Management	
21 (c)	Can this activity be deemed to divert the flow of water in a watercourse?	N	Have you applied for a water use license from DWA?	Y	Has the license been obtained?
				N	
21 (i)	Can this activity be deemed to be altering the bed, banks, course or characteristics of a watercourse (e.g. wetlands, rivers, springs etc)?	N	Have you applied for a water use license from DWA?	Y	Has the license been obtained?
				N	

C) National Heritage Resources Act No. 25 of 1999

Section	Description	Y/N	If Yes [Land Development]	Project Management	
34	Are you likely to disturb any structure that is older than 60 years, archaeological or palaeontological site or any meteorite or grave?	N	Have you applied for a license from the applicable heritage authority?	Y	Has the license been obtained?
				N	
38	Is the power line or access road longer than 300m?	Y	Has the applicable heritage authority been notified?	Y	
				N	

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D) National Forests Act No. 84 of 1998

Section	Description	Y/N	If Yes [Land Development]	Project Management
7	Are you likely to cut, disturb, damage or destroy any indigenous, living tree in, or remove or receive any such tree from, a <u>natural forest</u> ?	N	Have you applied for a license from the regional Department of Agriculture, Forestry and Fisheries?	Has the license been obtained?
			Y	Y
			N	N
15	Are you likely to cut, disturb, damage, destroy or remove any protected tree or collect, remove, transport, export, purchase, sell, donate any <u>protected tree</u> ?	N	Have you applied for a license from the regional Department of Agriculture Forestry and Fisheries?	Has the license been obtained?
			Y	Y
			N	N
	Are you likely to encounter a <u>champion tree</u> ?	N	Have you applied for a permit from the regional Department of Agriculture Forestry and Fisheries?	Has the permit been obtained?
			Y	Y
			N	N

E) Mineral Resource Development Act (Act 28 of 2002)

Section	Description	Y/N	If Yes [Land Development]	Project Management
	Do you need to obtain material from a borrow pit?	N	Have you applied for a permit from the regional Department of Mineral Resources?	Has the license been obtained?
			Y	Y
			N	N

OPERATION AND MAINTENANCE PROJECTS (A-B).

A) National Forests Act No. 84 of 1998

Section	Description	Y/N	If Yes [Field Services]	Project Management/Field Services
7	Are you likely to cut, disturb, damage or destroy any indigenous, living tree in, or remove or receive any such tree from, a <u>natural forest</u> ?	N	Have you applied for a license from the regional Department of Agriculture, Forestry and Fisheries?	Has the license been obtained?
			Y	Y
			N	N
15	Are you likely to cut, disturb, damage, destroy or remove any protected tree or collect, remove,		Have you applied for a license from the regional Department of Agriculture Forestry and Fisheries?	Has the license been obtained?
			Y	Y
			N	N

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DOCUMENT CLASSIFICATION: CONTROLLED DISCLOSURE  
 ENVIRONMENTAL IMPACT ASSESSMENT AND  
 WATER USE FOR DISTRIBUTION ACTIVITIES

Unique Identifier: 34-926  
 Type: DPC  
 Revision: DRAFT 0A  
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	transport, export, purchase, sell, donate any <u>protected tree</u> ?	N			
	Are you likely to encounter a <u>champion tree</u> ?	N	Have you applied for a permit from the regional Department of Agriculture Forestry and Fisheries	Y	Has the permit been obtained?
				N	

B) National Water Act No. 36 of 1998

Section	Description	Y/N	If Yes [Field Services]		Project Management/ Field Services	
21 (c)	Can this activity be deemed to <u>divert the flow of water in a watercourse (e.g. repairing a cable)</u> ?	N	Have you applied for a water use license from DWA?	Y	Has the license been obtained?	Y
				N		N
21 (i)	Can this activity be deemed to be <u>altering the bed, banks, course or characteristics of a watercourse (e.g. wetlands, rivers, springs etc)</u> ?	N	Have you applied for a water use license from DWA?	Y	Has the license been obtained?	Y
				N		N

COMMENTS


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Signed by: D. Scholtz   
 Date: 19/06/2016

Designation: SURVEY TECHNICIAN 571577