

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
I have seen the completed document and accept the
recommendations made

Assessor/s
Form completed by LUIS REINA Signature:
in consultation with : Signature:
CAPACITY (e.g. land owner, specialist):
DATE COMPLETED: 13/04/2015

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.

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Annex B
(continued)

1 Project description

Project name/Survey LINE DEVIATION Area STANDERTON
 Request
 Project number NEW DENMARK File number
 Rural scheme/
 Feeder NEW DENMARK / NEW DENMARK Voltage 22 KV
 Supply from ND 120
 (scheme name, pole numbers for tee-off)
 Supply to ESKOM
 (Farm name, etc.)

2 Properties traversed

Farm name VOGELVALLEY 355 15
 Registration number and Division 1/355 Sub-division 1
 Compilation number 2629 CA 5 Line length (m)
 Farm name
 Registration number and Division Sub-division
 Compilation number Line length/Site area (m²)

3 Brief description of the surrounding area

grassland area

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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Annex B
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4 Physical environment

4.1 Water: streams rivers dams wetlands springs floodplains OTHER

Present condition: good

Potential impact (e.g. threat of pollution): low threat

4.2 Soil: sandy rocky clayey OTHER

Present condition: good

Potential impact (e.g. of erosion)

4.3 Topography mountains ridges hills valleys ravines dongas OTHER Hot

Present condition: good

Potential impact (e.g. of erosion)

Comments/mitigating measures:

No comments

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5 Natural environment

5.1 Flora: indigenous protected *exotic* OTHER

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

grass
Potential impact (e.g. permit applications) *low impact*

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)
small birds

Potential impact (e.g. threat of electrocution, collision, etc)..... *low impact*

Comments/mitigating measures:
no comments

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 ... *farm*

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Potential impact e.g. threat of encroachment, etc. *low threat*

6.2 Visual aesthetics: easily seen hidden partially.....

Brief description *powerline can be easily seen.*

Potential impact

6.3 Natural heritage: cultural significance archaeological objects monuments palaeontological objects graves meteorites ruins OTHER *None*.....

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 *low impact*

Comments/mitigating measures
No comments

7 Economic environment

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

Brief description *farm*

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Annex C - Environmental Management Plan
(Normative)

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 C

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- 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.

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Annex C
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Contamination by petrochemicals.	<ul style="list-style-type: none"> - spill control material and procedures made readily available. - restoration methods investigated.
FAUNA & FLORA	
Loss of habitat, breeding and/or food source for terrestrial wildlife.	<ul style="list-style-type: none"> - environmental mapping to identify sensitive areas. - avoidance of areas containing rare/endangered species. - construction and maintenance activities to be timed where possible to avoid peak breeding periods. - the creation of "edge" (may be considered a positive impact.) - promotion of wildlife habitat through vegetation control. - avoid the filling of small wetlands. - use design with low risk to wildlife electrocution or collision - fit bird flight divertors to powerlines in bird migration areas.
Changes in composition of vegetation as a result of disturbance.	<ul style="list-style-type: none"> - construction timing to minimise soil disturbance. - restoration of soils to a stable condition.
Removal or burial of stream bottom habitat and increased turbidity due to sedimentation.	<ul style="list-style-type: none"> - minimise erosion from the right-of-way by maintaining a cover crop. - mechanical erosion control. - minimise stream bank erosion by retaining shrubby bank vegetation and selective cutting, pruning of trees near watercourses. - installation of sediment traps when necessary.
Possible loss of wildlife/fish migration/travel routes.	<ul style="list-style-type: none"> - avoid filling small wetlands serving as staging areas for waterfowl migration. - Installation and maintenance of a proper stream crossing device. - time construction activities to avoid disturbance to migrating fish and wildlife or during breeding. - Follow Eskom standards for the application of herbicides near watercourses. - Preserve and/or augment existing natural corridor crossings; investigate tower placement to optimise clearances to preserve existing vegetation.
Introduction of exotic plant species resulting from vegetative erosion control.	<ul style="list-style-type: none"> - use of native species for erosion control.
Vegetation stress due to nutrient loss as a result of soil deterioration.	<ul style="list-style-type: none"> - erosion control measures.
Changes in vegetation due to soil disturbance (topsoil-subsoil mixing).	<ul style="list-style-type: none"> - time construction/clearing to take advantage of stable soil conditions.

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