

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 ^{OWNERS} Owner/s/User/s

I have seen the completed document and accept the
recommendations made

Form completed by

in consultation with :

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

DATE COMPLETED:

[Signature]

[Signature]

[Signature]

Assessor/s

Signature: *[Signature]*

Signature: *[Signature]*

environmental practitioner

PALESA SEBULO

Ignacio Pascual

01 APRIL 2019

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.

Annex B

(continued)

1 Project description

Project name/Survey EFFLUENT Ring main
Request 11 MV CABLE Replacement Area Estkom Kriel power station
Project number File number N/A
Rural scheme/
Feeder N/A Voltage 11 kV
Supply from 11 kV STATION BOARD 4
(scheme name, pole numbers for tee-off)
Supply to 11 kV EFFLUENT plant Ring main
(Farm name, etc.)

2 Properties traversed

Farm name Pen. Remaining of Kriel power station 65-IS
Registration number and Division Sub-division
Compilation number Line length (m) 400 metres
Farm name
Registration number and Division Sub-division
Compilation number Line length/Site area (m²)

3 Brief description of the surrounding area

THE AREA IS MAINLY GRASSLAND WITH SCATTERED PLANTED TREES. THE AREA IS WITHIN THE POWER STATION FOOTPRINT. THERE IS HIGH VOLTAGE YARD, COOLING TOWERS AND OFFICE BUILDING BELONGING TO ESTKOM KRIEL POWER STATION IN THE IMMEDIATE SURROUNDING.

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 (continued)

4 Physical environment

4.1 Water: streams rivers dams wetlands springs floodplains OTHER

Present condition: THE LINE CUT ACROSS A GRASSLAND ENVIRONMENT, WITHIN THE POWER STATION

Potential impact (e.g. threat of pollution): NONE - AREA ALREADY DISTURBED

4.2 Soil: sandy rocky clayey OTHER

Present condition: Clay Soil AREA WITH GRASS

Potential impact (e.g. of erosion) NO RISK OF FURTHER EROSION

4.3 Topography mountains ridges hills valleys ravines dongas OTHER FLAT

Present condition: IT IS WITHIN EVENLY DISTRIBUTED SURFACE

Potential impact (e.g. of erosion) NONE FORESEEN

Comments/mitigating measures:

Station camp TO BE ENFORCED

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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) HERE ARE TREES ADJACENT TO THE LINE WHICH DO NOT DISTURB THE ROUTING.
Potential impact (e.g. permit applications) NO TREE WILL BE REMOVED.

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)
GENERAL BIRDS ARE SEEN FLYING AROUND THE AREA.
Potential impact (e.g. threat of electrocution, collision, etc.) NONE FORESEEN.

Comments/mitigating measures:
STATION EMP TO BE COMPLIED WITH REGARDING PAUNDA & FLORA IS AFFECTED.

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 THE AREA IS AN INDUSTRIAL AREA

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(continued)

Potential impact e.g. threat of encroachment, etc. None foreseen

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

Brief description THE ACTIVITY IS CONTAINING WITHIN THE POWER STATION.

Potential impact None foreseen

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 THE PROJECT IS UNDERMINED BY VRYHEID FORMATION (Eca group KAROO SPELIGROUP), HOWEVER NO RISK IS ENVISAGED FROM THIS PROJECT.

Comments/mitigating measures

IN THE EVENT THAT ANY FOSSIL OR HERITAGE VALUED ITEM IS DISCOVERED, THE SENIOR ADVISOR SHALL STOP THE WORKS AND REPORT THE CASE TO SAHRA OFFICE.

7 Economic environment

7.1 Land use: crops orchards grazing crop spraying game farming forestry areas mining OTHER None INDUSTRIAL

Brief description THE AREA OF ACTIVITY IS WITHIN THE POWER STATION.

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Potential impact *None foreseen*.....

7.1.1 Commercial: factories shops OTHER *N/A*.....

Brief description *N/A*.....
Potential impact
.....
.....

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

Brief description: *THERE IS EXISTING POWER LINE WITHIN
SOME SECTIONS OF THE STRETCH.*.....
.....
.....
Potential impact *None foreseen*.....
.....

Comments/mitigating measures:
*CARE SHOULD BE TAKEN DURING EXCAVATION FOR
UNMARKED UNDERGROUND SERVICES.*
.....
.....

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(continued)

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

1. Physical

<input checked="" type="radio"/> No impact (0)	<input type="radio"/> Medium impact (2)	<input type="radio"/> High impact (4)
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2. Natural

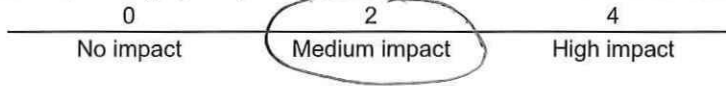
<input type="radio"/> No impact (0)	<input checked="" type="radio"/> Medium impact (2)	<input type="radio"/> High impact (4)
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3. Social

<input checked="" type="radio"/> No impact (0)	<input type="radio"/> Medium impact (2)	<input type="radio"/> High impact (4)
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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 all
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 _____