

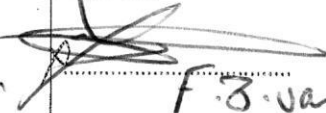
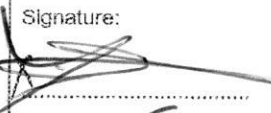


| | | |
|---|--|--------------------------------|
|  | WCOU DISTRIBUTION ENVIRONMENTAL SCREENING DOCUMENT (DESD) TEMPLATE | WESTERN CAPE OPERATING UNIT |
|---|--|--------------------------------|

| | |
|---|--|
| Project Name and Number: | Murray Roberts, CVD 150868687 |
| Location: | Loerierfontein |
| Customer Network Centre: | Vredendal |
| Date DESD Completed: | 11/09/2015 |
| DESD Completed by: | <input checked="" type="checkbox"/> Engineering Surveyor <input type="checkbox"/> Environmental Practitioner <input type="checkbox"/> Environmental Advisor <input type="checkbox"/> Customer Exec/ Advisor Other: |
| DESD Form completed by..... L. MAART (Name & Surname) in consultation with : CAPACITY (e.g. land owner, specialist): Trustee - Ronan Rupert Timot Land owner | Signature:  Signature:  F. S. van der Merwe |
| Accepted by Land Owner/s/Users Trustee - Ronan Rupert Timot (Declaration by Land Owner/ User/ Manager) I have seen the completed document and accept the recommendations made. | Signature:  F. S. van der Merwe |

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GUIDELINE TO DESD COMPILERS

1. PURPOSE

The purpose of this DESD is to:

- Determine whether or not the project triggers a listed activity in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations (EIA) 2006, and thus require an Environmental Authorisation before construction can commence.
- Identify and mitigate the negative impact of Eskom's activities to a minimum in line with both Legislation and Eskom's Environmental Policies.
- Inform route selection and engineering design.
- Provide opportunity for alternative selection of routes upon assessment of impacts on proposed location and provide mitigation measures.

2. INSTRUCTIONS AND SUBMISSION PROCESS

2.1 The DESD must be completed before survey in order to consider alternatives.

2.2 Mark the appropriate box with an 'x' where applicable.

2.3 Please COMPLETE ALL REQUIRED INFORMATION and where the question / statement is not applicable mark N/A.

2.4 DESD forms must be accompanied by a locality map with a project drawing and photographs of the site.

2.5 Indicate sensitive areas on a map and/or spanning plans.

2.6 DESDs must be scanned and e-mailed with supplementary information to the following people:

- To Theresa Anders (and CC Justine Wyngaardt) for West Coast (all projects up to Springbok), Bellville, all other Cape areas. A hardcopy must be sent to her as well.
- To Maureen Buskes (and CC Justine Wyngaardt) for Northern Cape projects beyond Springbok to Upington, Prieska and Garden Route areas. A hardcopy must be sent to her as well.

3. APPROVAL OF DESDs AND FEEDBACK TO CONTRACTOR/ CNC

Step 1: Maureen and Theresa will register the DESD submission and forward the DESD and supplementary information to Environmental Management

Step 2: Environmental Management has 5 days to approve/ reject the DESD or to seek additional information. During this time the DESD will be evaluated, the impact of the project assessed and mitigation measures identified.

Step 3: Feedback on the DESD will be given by returning (i) a ratification sheet, (ii) a Permit and Licence Checklist and (iii) an Environmental Management Programme to either Maureen or Theresa.

Step 4: Maureen and Theresa will forward the above documentation with the spanning sheets, way-leaves and/or stat approvals (if applicable) to the relevant Customer Services representative.

Step 5: The Customer Services Representative shall ensure that the DESD and documents specified in Step 3 above is included in the Project Package that is given to the contractor and relevant CNC. These documentation must form part of the project specification to the project engineering designer and contractor (to the CNC if not constructed by a contractor).

Step 6: The Customer Services representative shall inform Environmental Management (Donald Matjuda) of construction start 5 days in advance @ (021) 980 3364 or e-mail to MatjudD@eskom.co.za

Step 7: Environmental Management will randomly select 4-5 projects per month to audit compliance with ratification conditions and EMP. The NCR process will be followed for non-compliance.

4. ADDITIONAL INFORMATION NEEDED WITH DESD SUBMISSION

Additional supplementary information is required to apply for relevant permits from authorities and to adequately assess the DESD. Note that DESDs submitted with no supplementary information might be delayed and/or rejected. The following must accompany the DESD application. Please indicate what supplementary information has been submitted with DESD.

| Supplementary Information | Not Applicable | Attached to Application? | |
|--|----------------|--------------------------|----|
| | | Yes | No |
| Locality Map | | ✓ | |
| GPS coordinates of sensitive features (river crossings, wetlands, trees, graves, old structures or buildings, etc.) | ✓ | | |
| Photographs of site (location of proposed infrastructure within the surrounding environment) | | ✓ | |
| Photos of trees to be removed (if trees need to be removed please take a photo of the tree and a close up of a branch of the tree in order to identify the tree) | ✓ | | |
| Development Environmental Authorisation (eg. Vodacom, municipal housing development, etc.) | | | |
| GPS coordinates of location of new infrastructure (start, middle and end) | | ✓ | |
| Any other supplementary information supplied? | | | |

✓

SECTION A: PROJECT SCOPE AND ADDITIONAL INFORMATION

1. PROPERTY INFORMATION (PLEASE COMPLETE IN FULL)

| | | | |
|--|----------------|--------|-------|
| Area/Town: | LOERISFONTEIN | | |
| Municipality: | CALVINIA | | |
| Rural Scheme Feeder: | HELIOS F1 | | |
| Voltage: | 22kV | | |
| Supply from (Scheme name, pole numbers for tee-off): | | | |
| Erf or Farm Name and Nr etc. (property for which application is made) | FARM 226, SOUS | | |
| Street Address (e.g. Off R44, Stellenbosch): | | | |
| GPS Coordinates of Property (A logical centre point. Format based on WGS84): | | | |
| Extent of Property (Hectares): | 9084,7736 HA | | |
| Land Use (e.g. Agricultural, Residential, Industrial, etc.): | AGRICULTURAL | | |
| Land Owners Telephone Nr: | (Home) | (Cell) | (Fax) |
| Land Owners Email Address: | | | |
| Total Length of Line (m) | 520m | | |

2. PROPERTIES TRAVERSED

| | | | |
|--|---------------|------------------|-----|
| Farm Name: | SOUS 226 | | |
| Farm Number (Registration Nr, Division and Sub-division): | 226, CALVINIA | | |
| GPS Coordinates of Property (A logical centre point. Format based on WGS84): | | Line Length (m): | 520 |
| Farm Name: | | | |
| Farm Number (Registration Nr, Division and Sub-division): | | | |
| GPS Coordinates of Property (A logical centre point. Format based on WGS84): | | Line Length (m): | |

3. PROJECT SCOPE AND SUPPLEMENTARY INFORMATION

| | | | | |
|---|-----|-------------------------------------|----|-------------------------------------|
| Give a brief description of the project scope, including all activities anticipated: | | | | |
| Will the power line/ cable be 300m or longer? (Y/N) | YES | <input checked="" type="checkbox"/> | NO | <input type="checkbox"/> |
| Will the line be near any or affect any old structures or buildings or known historical towns. | YES | <input type="checkbox"/> | NO | <input checked="" type="checkbox"/> |
| Are there any marked or unmarked graves on the route/ or on site? | YES | <input type="checkbox"/> | NO | <input checked="" type="checkbox"/> |
| Will any planned activity or infrastructure be within 100meters of a watercourse (rivers/ streams/ dams)? | YES | <input type="checkbox"/> | NO | <input checked="" type="checkbox"/> |
| Is any portion of the power line or cable or any other infrastructure within 32m of a watercourse/ wetland? | YES | <input type="checkbox"/> | NO | <input checked="" type="checkbox"/> |
| Will any planned activity or infrastructure be within 500meters of a wetland (seasonal and permanent)? | YES | <input type="checkbox"/> | NO | <input checked="" type="checkbox"/> |
| Is any portion of the power line or proposed activity within 100m of the high-water mark of the sea/ estuary/ lagoon? | YES | <input type="checkbox"/> | NO | <input checked="" type="checkbox"/> |
| Is any property affected a nature reserve or conservancy? | YES | <input type="checkbox"/> | NO | <input checked="" type="checkbox"/> |
| Will the power line be going through or adjacent to a forest/ plantation area? | YES | <input type="checkbox"/> | NO | <input checked="" type="checkbox"/> |
| Will any portion of project be cabled through veid/ natural vegetation? | YES | <input type="checkbox"/> | NO | <input checked="" type="checkbox"/> |
| Will any portion of project be cabled through a river-bed/ stream? | YES | <input type="checkbox"/> | NO | <input checked="" type="checkbox"/> |
| Are new access roads/ tracks needed to maintain & operate the power line? | YES | <input type="checkbox"/> | NO | <input checked="" type="checkbox"/> |
| Are there any protected trees/ heritage trees along the power line or close to it? (Owner might know) | YES | <input type="checkbox"/> | NO | <input checked="" type="checkbox"/> |
| Will natural/ indigenous vegetation have to be removed prior to construction? | YES | <input type="checkbox"/> | NO | <input checked="" type="checkbox"/> |
| Did you observe any evidence of wildlife in close proximity to the power line? For example, birds, nests, giraffe, elephants, etc. | YES | <input type="checkbox"/> | NO | <input checked="" type="checkbox"/> |
| Will the activity require sewerage connection or discharge? | YES | <input type="checkbox"/> | NO | <input checked="" type="checkbox"/> |
| Will the activity require the installation (permanent or temporary) of a septic tank/ soak away/ french drains/ ventilated pit latrine? | YES | <input type="checkbox"/> | NO | <input checked="" type="checkbox"/> |
| Will any large amount of waste have to be disposed of? | YES | <input type="checkbox"/> | NO | <input checked="" type="checkbox"/> |
| Will the activity generate any hazardous waste that will have to be disposed of? Specify: | YES | <input type="checkbox"/> | NO | <input checked="" type="checkbox"/> |

SECTION B: ENVIRONMENTAL IMPACT SCREENING

| TOPOGRAPHY | | | | | |
|--|-------------------------------------|---|-------------------------------------|--|--|
| Aspect (Mark with an 'X' if applicable) | | Present Condition (Mark with an 'X' if applicable) | | Potential Impact (Mark with an 'X' if applicable) | |
| Flat | <input checked="" type="checkbox"/> | Unstable rocky or steep slopes | | Difficult to construct in area | |
| Ridgeline | | Erosion present on site | | Erosion | |
| Mountainous/ Side slope of hill/ mountain | | Steep slopes with loose soil | | Difficult vehicular access | |
| Undulating plain/ low hills | | Rocky outcrops | | New access roads needed | |
| Dune (In-land or Coastal) | | Dolomite, sinkhole or doline areas | | Seasonal dune movement (impact on clearance) | |
| Sea-front | | Any other unstable soil or geological feature | | Other (Specify): | |
| Valleys/ Ravine/ Donga | | Other (Specify): | | | |
| Other (Specify): | | N/A | <input checked="" type="checkbox"/> | | |

| VISUAL AESTHETICS | | | |
|--|-------------------------------------|--|--|
| Aspect (Mark with an 'X' if applicable) | | Potential Impact (Mark with an 'X' if applicable) | |
| Easily Seen | <input checked="" type="checkbox"/> | Infrastructure will be obtrusive in landscape (not fit in) | |
| Hidden Partially | | Objection by members of public/ Interest group/ owners | |
| Hidden Completely | | Negatively Impact on a business (e.g. Tourism) | |
| Other (Specify): | | Other (Specify): | |

| SOIL | | | | | |
|--|-------------------------------------|---|-------------------------------------|--|--|
| Aspect (Mark with an 'X' if applicable) | | Present Condition (Mark with an 'X' if applicable) | | Potential Impact (Mark with an 'X' if applicable) | |
| Sandy | | Unstable rocky or steep slopes | | Contamination of soil with concrete and cement | |
| Rocky | <input checked="" type="checkbox"/> | Saturated/ wet soils/ shallow water table | | Compaction of soil due to driving | |
| Clayey | <input checked="" type="checkbox"/> | Sensitive to erosion or evidence of erosion in the area | | Erosion | |
| Other (Specify): | | N/A | <input checked="" type="checkbox"/> | N/A | |



| LAND USE, COMMERCIAL & OTHER INFRASTRUCTURE | | |
|--|--|---|
| Aspect (Mark with an 'X' if applicable) | Potential Impact (Mark with an 'X' if applicable) | |
| Agriculture / Farm lands (Crops, Orchards, Grazing, etc.) Please Specify: | ✓ | Objection by members of public/ interest group/ owners |
| Forestry Area | | Negatively impact on a business (e.g. Tourism) |
| Mining Activity (including sand mining): Please specify: | | Impact on centre pivots or other farming/ mining implements |
| Factories/ Shops/ Industrial (Please specify): | | Threat of encroachment with or contact(Safety risk/ clearance) |
| Road Crossings or near main roads (National Roads, etc.) | | Construction limited to specific season/ time period |
| Other Infrastructure (e.g. Railways, communication towers, existing power lines, sewer, water pipes, cables) Please specify: <i>HELIOS SUBSTATION</i> | ✓ | Loss of orchards, crops, etc. |
| Air fields, landing strips/ wind turbines (Please specify): | | Other (Specify): |

| FAUNA | | |
|--|---|--|
| Aspect (Mark with an 'X' if applicable) | Present Condition (Mark with an 'X' if applicable) | Potential Impact (Mark with an 'X' if applicable) |
| Birds (Specify if you can identify type, e.g. vulture, eagle, blue crane, raptor): | Bird nests present | Threat of electrocution |
| Mammals | Game (Giraffe, Elephants, etc) | Threat of collision |
| Other (Specify): <i>NONE OBSERVED</i> | Other (Specify): | Other (Specify): |

| GROUNDCOVER AND FLORA | | | | | |
|--|--|---|--|---|--|
| Aspect (Mark with an 'X' if applicable) | | Present Condition (Mark with an 'X' if applicable) | | Potential Impact (Mark with an 'X' if applicable) | |
| Natural Vegetation | | Natural veld in good condition | | Contamination of ground due to driving during construction | |
| Alien Vegetation | | Natural veld with scattered aliens | | Trampling and loss of natural vegetation due to driving and walking over it | |
| Bare Soil | | Natural veld with heavy alien infestation | | Fire risk | |
| Other (Specify): | | Thick bush | | Erosion risk | |
| | | Gardens/ Sport fields | | Vegetation clearance is required for construction and maintenance | |
| | | Paved/ hardened Surface | | Other (Specify): | |

| NATURAL HERITAGE | | | |
|--|--|--|--|
| Aspect (Mark with an 'X' if applicable) | | Potential Impact (Mark with an 'X' if applicable) | |
| Area of cultural significance | | Infrastructure will be obtrusive in landscape (not fit in) | |
| Known Archaeological objects present on site | | Objection by members of public/ interest group/ owners | |
| Known Palaeontological objects present on site | | Negatively impact on a business (e.g. Tourism) | |
| Monuments | | Threat of encroachment | |
| Graves | | Direct Impact (e.g. Cutting of heritage trees, etc.) | |
| Meteorites | | Require permits/ other special permission | |
| Ruins/ Old buildings (structures older than 60 years) | | Deface/ damage to heritage resource | |
| Windbreak Trees/ Trees with heritage significance/ Trees registered as a heritage resource/ national champion tree | | Objection by public/ interest group | |
| Other (Specify): | | Other (Specify): | |

IMPACT OF PROJECT

| Rate the potential impact of the project on the following elements – Mark with an 'X' | | | | |
|---|-----|-----|--------|------|
| ELEMENT | N/A | Low | Medium | High |
| Water Resources | ✓ | | | |
| Soil | | ✓ | | |
| Topography | | ✓ | | |
| Groundcover and Flora | | ✓ | | |
| Fauna | | ✓ | | |
| Restricted Areas | ✓ | | | |
| Visual Aesthetics | | ✓ | | |
| Natural Heritage | | ✓ | | |
| Land Use, Commercial and other Infrastructure | | ✓ | | |

ADDITIONAL COMMENTS/ MITIGATING MEASURES:

✓