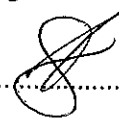


	WCOU DISTRIBUTION ENVIRONMENTAL SCREENING DOCUMENT (DESD) TEMPLATE	WESTERN CAPE OPERATING UNIT
Project Name and Number:	MORSKITZENCRESS V1 - ESKOM	
Location:	SUTHERLAND	
Customer Network Centre:	CALVINIA	
Date DESD Completed:		
DESD Completed by:	<input checked="" type="checkbox"/> Engineering Surveyor <input type="checkbox"/> Environmental Practitioner <input type="checkbox"/> Environmental Advisor <input type="checkbox"/> Customer Exec/ Advisor Other:	
DESD Form completed by:	L. MARI (Name & Surname)	Signature: 
In consultation with:		Signature:
CAPACITY (e.g. land owner, specialist):	
Accepted by Land Owner/s/Users		Signature:
(Declaration by Land Owner/ User/ Manager) I have seen the completed document and accept the recommendations made.		

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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:

- i. 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.
- ii. 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? <i>Line deviation of existing power line from inside dam</i>			

SECTION A: PROJECT SCOPE AND ADDITIONAL INFORMATION

1. PROPERTY INFORMATION (PLEASE COMPLETE IN FULL)

Area/ Town:	SUTHERLAND		
Municipality:	NUWE ROGGEVELD		
Rural Scheme Feeder:	SUTHERLAND F 3		
Voltage:	22 kV		
Supply from (Scheme name, pole numbers for tee-off):			
Erf or Farm Name and Nr etc. (property for which application is made)			
Street Address (e.g. Off R44, Stellenbosch):			
GPS Coordinates of Property (A logical centre point. Format based on WGS84):	32° 16' 30,02" S 20° 22' 1,06" E		
Extent of Property (Hectares):	2751,1095		
Land Use (e.g. Agricultural, Residential, Industrial, etc.):	AGRI		
Land Owners Telephone Nr:	(Home)	(Cell)	(Fax)
	023 5721015		
Land Owners Email Address:	skurweberg@roggeveld.co.za		
Total Length of Line (m)	795 m		

2. PROPERTIES TRAVERSED

Farm Name:	HOUDENBECK		
Farm Number (Registration Nr, Division and Sub-division):	FARM 69, HOUDENBECK, SUTHERLAND		
GPS Coordinates of Property (A logical centre point. Format based on WGS84):		Line Length (m):	795 m
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: <i>Removing ± 800 m of overhead line and build ± 780 m of new line to avoid the dam</i>				
Will the power line/ cable be 300m or longer? (Y/N)	YES	✓	NO	
Will the line be near any or affect any old structures or buildings or known historical towns.	YES		NO	✓
Are there any marked or unmarked graves on the route/ or on site?	YES		NO	✓
Will any planned activity or infrastructure be within 100meters of a watercourse (rivers/ streams/ dams)?	YES	✓	NO	
Is any portion of the power line or cable or any other infrastructure within 32m of a watercourse/ wetland?	YES	✓	NO	
Will any planned activity or infrastructure be within 500meters of a wetland (seasonal and permanent)?	YES		NO	
Is any portion of the power line or proposed activity within 100m of the high-water mark of the sea/ estuary/ lagoon?	YES		NO	✓
Is any property affected a nature reserve or conservancy?	YES		NO	✓
Will the power line be going through or adjacent to a forest/ plantation area?	YES		NO	✓
Will any portion of project be cabled through veld/ natural vegetation?	YES		NO	✓
Will any portion of project be cabled through a river-bed/ stream?	YES		NO	✓
Are new access roads/ tracks needed to maintain & operate the power line?	YES		NO	✓
Are there any protected trees/ heritage trees along the power line or close to it? (Owner might know)	YES		NO	✓
Will natural/ indigenous vegetation have to be removed prior to construction?	YES		NO	✓
Did you observe any evidence of wildlife in close proximity to the power line? For example, birds, nests, giraffe, elephants, etc.	YES	✓	NO	
Will the activity require sewerage connection or discharge?	YES		NO	✓
Will the activity require the installation (permanent or temporary) of a septic tank/ soak away/ french drains/ ventilated pit latrine?	YES		NO	✓
Will any large amount of waste have to be disposed of?	YES		NO	✓
Will the activity generate any hazardous waste that will have to be disposed of? Specify:	YES		NO	✓

?

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		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	

VISUAL AESTHETICS			
Aspect (Mark with an 'X' if applicable)			Potential Impact (Mark with an 'X' if applicable)
Easily Seen			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): <i>On back of farm</i>			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		Saturated/ wet soils/ shallow water table	✓ Compaction of soil due to driving
Clayey	✓	Sensitive to erosion or evidence of erosion in the area	Erosion
Other (Specify):		N/A	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:		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>Seasonal Flamingo</i>		Other (Specify):		Other (Specify): <i>Owner reported collisions</i>	

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	
Cultivated Other (Specify): lands in majority		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): River crossings		Other (Specify): DUAF	

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:

*Proposed line deviation to prevent/lessen collisions
of flamingo with powerline and to move the
line out side of the dam.*
