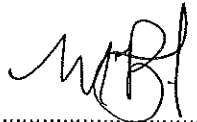


	WCOU DISTRIBUTION ENVIRONMENTAL SCREENING DOCUMENT (DESD) TEMPLATE	WESTERN CAPE OPERATING UNIT
Project Name and Number:	Kommagas Buffelsrivier Integration: 3353 A	
Location:	Kommagas, Northern Cape	
Customer Network Centre:	Springbok	
Date DESD Completed:	28 August 2015	
DESD Completed by:	<input type="checkbox"/> Engineering Surveyor <input type="checkbox"/> Environmental Practitioner <input checked="" type="checkbox"/> Environmental Advisor <input type="checkbox"/> Customer Exec/ Advisor Other: .....	
DESD Form completed by <u>MARSHALL FELAR</u> (Name & Surname)  in consultation with : .....  CAPACITY (e.g. land owner, specialist): .....		Signature:  .....  Signature: .....
Accepted by Land Owner/s/Users  ..... (Declaration by Land Owner/ User/ Manager) I have seen the completed document and accept the recommendations made.		Signature: .....

## 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.

### 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.

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](mailto: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, 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:	Kommegas		
Municipality:	Nama Khoi		
Rural Scheme Feeder:			
Voltage:	22kV		
Supply from (Scheme name, pole numbers for tee-off):	Skek taked Buffels Rivier 11kV feeder		
Erf or Farm Name and Nr etc. (property for which application is made)			
Street Address (e.g. Off R44, Stellenbosch):	Road linking Kommegas to the R 355		
GPS Coordinates of Property (A logical centre point. Format based on WGS84):			
Extent of Property (Hectares):			
Land Use (e.g. Agricultural, Residential, Industrial, etc.):	Agricultural & Residential		
Land Owners Telephone Nr:	(Home) 027 718 8100	(Cell)	(Fax)
Land Owners Email Address:	P. O. Box 17, Springbok, 8240		
Total Length of Line (m)	14,5 km		

**2. PROPERTIES TRAVERSED**

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

<b>Farm Name:</b>			
<b>Farm Number (Registration Nr, Division and Sub-division):</b>			
<b>GPS Coordinates of Property (A logical centre point. Format based on WGS84):</b>		<b>Line Length (m):</b>	

**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 any planned activity or infrastructure be within 100meters of a watercourse (rivers/ streams/ dams)?	YES	<input checked="" type="checkbox"/>	NO	<input 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 veld/ natural vegetation?	YES	<input checked="" type="checkbox"/>	NO	<input 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 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 checked="" type="checkbox"/>	NO	<input 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 checked="" type="checkbox"/>	NO	<input type="checkbox"/>

**SECTION B: ENVIRONMENTAL IMPACT SCREENING**

1. WATER RESOURCES					
Aspect (Mark with an 'X' if applicable)		Present Condition (Mark with an 'X' if applicable)		Potential Impact (Mark with an 'X' if applicable)	
Streams		Non-seasonal/ Permanently Wet Watercourse		Erosion of bed and banks of the watercourse	
Rivers	X	Seasonal Watercourse/ Dry waterbed	X	Compaction of ground of bed and banks of a watercourse	
Dams		Man-made Dam or other watercourse		Activity may divert/ restrict the flow of watercourse	
Wetlands		Degraded watercourse (in poor condition)		Activity has the potential to cause flooding	
Sea/ Estuary		Drainage Channel		Risk of oil, fuels, hydraulic fluids, chemicals or other pollutants near watercourse resulting from activity	
Floodplains		Pristine Condition		No Impact	X
Springs		Alien Vegetation		Other (specify):	
Other (specify):		N/A		N/A	

2. 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	X	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	X	N/A	X

3. 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	X	Steep slopes with loose soil	X	Difficult vehicular access	X
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			

4. 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	X	Natural veld in good condition	X	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	X
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):	

5. 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):	X	Bird nests present		Threat of electrocution	X
Mammals		Game (Giraffe, Elephants, etc)		Threat of collision	X
Other (Specify):		Other (Specify):		Other (Specify):	

6. RESTRICTED AREAS			
Aspect (Mark with an 'X' if applicable)		Potential Impact (Mark with an 'X' if applicable)	
Nature Reserve/ Conservancy		Construction within nature reserve or a conservancy	
Heritage Site/ Areas of cultural significance		Loss of natural vegetation/ biodiversity	X
Green belts/ Vegetation Corridors	X	Require permits	
Residential Areas	X	Objection from public/ other interest groups	
Sacred/ Holy Grounds		Threat of Encroachment/ Direct Impact on restricted area	
Other (Specify):		Other (Specify):	

7. VISUAL AESTHETICS			
Aspect (Mark with an 'X' if applicable)		Potential Impact (Mark with an 'X' if applicable)	
Easily Seen	X	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): NA	



10. 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			X	
Soil			X	
Topography			X	
Groundcover and Flora			X	
Fauna			X	
Restricted Areas		X		
Visual Aesthetics		X		
Natural Heritage		X		
Land Use, Commercial and other Infrastructure		X		

ADDITIONAL COMMENTS/ MITIGATING MEASURES:

The proposed project need Heritage approval from SAHRA. Eskom needs to consult with Water Affairs as well with conservation Authorities regarding possible permits. The proposed project will not trigger the EIA reg.

8. 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): <i>Mining Towns</i>		Other (Specify): <i>NA</i>	

9. 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:	<i>X</i>	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: <i>Copper mines in the area</i>	<i>X</i>	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): <i>NA</i>	