



**environmental affairs**

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

(For official use only)

**File Reference Number:**

**Application Number:**

**Date Received:**


Basic Assessment Report in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended, and the Environmental Impact Assessment Regulations, 2006

**Kindly note that:**

1. This **basic assessment report** is a standard report that may be required by a competent authority in terms of the EIA Regulations, 2006 and is meant to streamline applications. Please make sure that it is the report used by the particular competent authority for the activity that is being applied for.
2. The report must be typed within the spaces provided in the form. The size of the spaces provided is not necessarily indicative of the amount of information to be provided. The report is in the form of a table that can extend itself as each space is filled with typing.
3. Where applicable **tick** the boxes that are applicable or **black out** the boxes that are not applicable in the report.
4. An incomplete report may be returned to the applicant for revision.
5. The use of "not applicable" in the report must be done with circumspection because if it is used in respect of material information that is required by the competent authority for assessing the application, it may result in the rejection of the application as provided for in the regulations.
6. This report must be handed in at offices of the relevant competent authority as determined by each authority.
7. No faxed or e-mailed reports will be accepted.
8. The report must be compiled by an independent environmental assessment practitioner.
9. Unless protected by law, all information in the report will become public information on receipt by the competent authority. Any interested and affected party should be provided with the information contained in this report on request, during any stage of the application process.
10. A competent authority may require that for specified types of activities in defined situations only parts of this report need to be completed. In addition, if it is clear to the EAP that because of the particular circumstances of the case it is not sensible to complete any of the sections indicated under paragraph 3 of this report, he or she may apply for exemption from completing that part of the report in the spaces provided in the report. It must however be noted that if the application for exemption is turned down, the report may have to be resubmitted.

**ACCREDITATION OF THE ENVIRONMENTAL ASSESSMENT PRACTITIONER (EAP)  
CONDUCTING THIS BASIC ASSESSMENT REPORT (BAR)**

The BAR for this project is being undertaken by an Eskom in-house EAP, Ms. Nokhuthala D Hlongwana who is registered as an Associate member with the Southern African Institute for Ecologists and Environmental Scientists (SAIEES). Ms. Hlongwana has completed both her honours as well as her under graduate degrees in Environmental and Geographical Science at the *University of Cape Town* in 2000 and 1999 respectively. She has five years experience in the impact assessment field.

Eskom Holdings Limited has been exempted from using an independent EAP by the Department of Environmental Affairs (DEA) based on the condition that all reports will be peer reviewed by an independent EAP certified by the Interim Certification Board for EAPs.

**SECTION A: APPLICATION FOR EXEMPTION**

The relevant parts of this section must be completed if the environmental assessment practitioner (EAP) on behalf of the applicant wishes to apply for exemption from completing or complying with certain parts of this basic assessment report.

**1. APPLICATION FOR EXEMPTION FROM ASSESSING ALTERNATIVES:**

At least two alternatives (site or activity) should be assessed. If that is not possible, the applicant should apply for exemption from having to assess alternatives. Such exemption will, however, not apply to the no-go alternative that must be assessed in all cases.

Provide a detailed motivation for not considering alternatives including an explanation of the reason for the application for exemption (supporting documents, if any, should be attached to this report):

I declare that the above motivation is accurate and, hereby apply for exemption in terms of regulation 51 of the Environmental Impact Assessment Regulations, 2006, from having to assess alternatives in this application as required in section 24(4)(b) in the National Environmental Management Act, 1998 (Act No. 107 of 1998)

Signature of the EAP: \_\_\_\_\_ Date:

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**2. APPLICATION FOR EXEMPTION FROM COMPLYING WITH PARTS OF REGULATION 23(2) REGARDING THE CONTENT OF THIS BASIC ASSESSMENT REPORT:**

Application for exemption from certain parts of regulation 23(2) regarding the completion of certain parts of this basic assessment report may be made by completing the relevant sections below.

Indicate the numbers of the sections of this report for which exemption is applied for:

Section B:	7(a) )	7(b) )	7(c) )	7(d) )	8	9	10(c) )	10(e) )	10(f) )	10(g) )	10(h) )	10(j) )	10(k) )	1 2
Section C:	1	2	3	4	5	6								
Section D:	1(a) )	1(b) )	1(c) )	1(d) )	1(f) )	1(g) )	3							

Provide a detailed motivation including an explanation of the reason for the application for exemption (supporting documents, if any, should be attached to this report):

I declare that the above motivation is accurate and, hereby apply for exemption in terms of regulation 51 of the EIA Regulations, 2006, from having to complete the indicated sections of the Basic Assessment Report.

Signature of the EAP: \_\_\_\_\_

Date:

## SECTION B: ACTIVITY INFORMATION

### 1. ACTIVITY DESCRIPTION

Describe the activity, which is being applied for in detail (A1):

**Malmesbury Farmers (F) 1 peaked in July 2008 with 2.361 mega volts ampere (MVA). The calculated feeder growth is 3.1 % per annum. Malmesbury F1 is experiencing voltage problems with voltages on some parts of the feeder being below the 95 % limit. Several new power applications have been received on Malmesbury F1, however, there is no more spare capacity on Malmesbury F1 to accommodate these loads due to voltage constraints.**

**Eskom therefore, proposes to utilise the existing servitude and build a 66 kV powerline (approximately 30 km) from Moorreesburg substation towards Vyevelei substation; create a 66 kV feeder bay at Moorreesburg substation to cater for the Vyevelei substation; and build a Vyevelei 1x10 MVA 66/ 11 kV step-down substation consisting of 1 x 66 kV feeder bay and 2 x 11 kV feeder bays (Vyevelei F1 and F2). Eskom further proposes to leave spatial requirements for a second 10 MVA 66/ 11 kV transformer bay and 1 x 11 kV feeder bay to be constructed in the future as the need arises. (Please refer to the attached map in Appendix A).**

#### **Study Limitations:**

- **Substation and powerline designs have not been finalised yet.**
- **Full survey can only be done once an Environmental Authorisation has been issued.**

### 2. ALTERNATIVES

Describe alternatives that are considered in this application. Alternatives should include a consideration of all possible means by which the purpose and need of the proposed activity could be accomplished in the specific instance taking account of the interest of the applicant in the activity. The no-go alternative must in all cases be included in the assessment phase as the baseline against which the impacts of the other alternatives are assessed. The determination of whether site or activity (including different processes etc.) or both is appropriate needs to be informed by the specific circumstances of the activity and its environment. After receipt of this report the competent authority may also request the applicant to assess additional alternatives that could possibly accomplish the purpose and need of the proposed activity if it is clear that realistic alternatives have not been considered to a reasonable extent.

**2(a) Site alternatives:**

Describe site alternative 1 (S1), for the activity described above, or for any other activity alternative:

**Eskom proposes to utilise the existing servitude and build a 66kV powerline (approximately 30km) from Moorreesburg substation towards Vyevelei substation; create a 66kV feeder bay at Moorreesburg substation to cater for the Vyevelei substation; build a Vyevelei 1x10MVA 66/11kV step-down substation consisting of 1x66kV feeder bay and 2x11kV feeder bays (Vyevelei F1 and F2). It further proposes to leave spatial requirements for a second 10MVA 66/11kV transformer bay and 1x11kV feeder bay. (Please refer to the attached map in Appendix A). The proposed powerline (Alternative A) traverses agricultural land. It runs from the Moorreesburg substation in a southerly direction. At the Minor Road 405 it bends slightly in a south-easterly direction until Minor Road 411 where it bends and runs in westerly direction. It further bends after passing Trunk Road 21/1 back into the southerly direction and connects to the preferred new substation site at co-ordinates, 33°21'34.3940" and 18°37'50.8927". The substation will also be located on the agricultural land and the site is level. Eskom has received the consent letter to build the substation on site. The preferred route has been chosen due to the fact that Eskom has a vacant servitude east and parallel to the existing 132kV Malmesbury-Moorreesburg powerline (shown in blue on the locality map in Appendix A) and therefore would like to exercise its servitude rights before it expires. Further, it runs along or near to boundaries of properties where the impact on farming activities and veld can be kept to a minimum. Access to this route is also easier due to the existing infrastructure. As a result, it is also supported by the local property owners and farmers. A methodology for the construction of the 66/11kV Moorreesburg-Vyevelei substation and powerline is shown below.**

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Activity	Estimated Timeframe and Schedule	General Description of the Activity
	<b>Phase 1: Project Initiation</b>	
<b>Site Preparation</b>	2 weeks	<ul style="list-style-type: none"> <li>➤ Site preparation will consist of vegetation removal from the substation footprint.</li> <li>➤ Debris will be disposed of by contractors to a registered landfill site.</li> </ul>
	<b>Phase 2: Construction</b>	
Civil works: <ul style="list-style-type: none"> <li>➤ Levelling the ground</li> <li>➤ Laying of wires</li> <li>➤ Plinths</li> <li>➤ Transformer bays</li> <li>➤ Double storey building</li> <li>➤ Single storey building</li> <li>➤ Digging of structure foundations</li> <li>➤ Construction of access roads</li> </ul>	1 month 2 months 1 month 9 months 9 months	<ul style="list-style-type: none"> <li>➤ Levelling the ground to specific layout designs.</li> <li>➤ Trenches will need to be dug in order to lay copper wires for earthing.</li> <li>➤ Lay foundations (concrete) for transformers.</li> <li>➤ Building of the 66kV electrical switchroom.</li> <li>➤ Building of 11kV switchroom.</li> <li>➤ Import G5 material and compact it on the required access road</li> </ul>
Erecting Steelwork	2 months	This will entail putting in breakers, insulators, transformers and voltage & current transformers
Fencing	2 weeks	The proposed substation requires fencing around its perimeter for security and safety purposes

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	<b>Phase 3: Operation</b>	
Operation/maintenance of Substation	On going (lifespan of 35 years)	General maintenance will need to be performed from time to time and consists of upgrading, replacements and testing.

Describe site alternative 2 (S2), if any, for the activity described above, or for any other activity alternative:

**Eskom proposes to utilise the existing servitude and build a 66 kV powerline as per the route described in S1 with the difference that the powerline be diverted from Farm 1083, run perpendicular to S1 and later traverse S1; and end on portion 589 of Farm 4. The alternative Route B runs in the same direction as Route A from the Moorreesburg substation, however, after passing Minor Road 410 it bends in a south-westerly direction and goes straight until it reaches the alternative new substation site at co-ordinates, 33°22'37.1204" and 18°38'12.3060". Even though part of the alternative route is also located on the Eskom's vacant servitude east and parallel to the existing 132 kV Malmesbury-Moorreesburg powerline (shown in blue on the locality map), the alternative route mainly runs through cultivated farmlands. Compared to Route A that runs along farm boundaries, certain parts of Route B traverses farms. This alternative will thus impact more on farming activities. In addition there is also are two streams (Kromrivier and Soutrivier) crossing next to the proposed substation and the alternative proposed overhead powerline will need to cross these rivers, meaning Eskom will have to put bird diverters and/or flappers in the area, thereby increasing electricity application costs on the customers. The alternative is preferred as it has good access to the route for construction and maintenance purposes, due to the close vicinity of the route to existing tarred roads. This alternative will thus be more time consuming during both construction and maintenance phases and have a greater possibility of impacting on surface water in the area and disturbing agricultural processes.**

Describe site alternative 3 (S3), if any, for the activity described above, or for any other activity alternative:

N/A

**(2)(b) Activity alternatives:**

Describe activity alternative 2 (A2), if any, for any or all of the site alternatives as appropriate:

**As the only activity that will increase the capacity of Eskom to supply electricity to additional consumers, is the construction of additional powerlines and substation, no alternative activity is applied for.**

Describe activity alternative 2 (A2), if any, for any or all of the site alternatives as appropriate:

N/A

Describe activity alternative 2 (A2), if any, for any or all of the site alternatives as appropriate:

N/A

**4. ACTIVITY POSITION:** Please refer to the appendix for more co-ordinates

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Indicate the position of the activity using the latitude and longitude of the centre point of the site for each alternative site. The co-ordinates should be in degrees and decimal minutes. The minutes should have at least three decimals to ensure adequate accuracy. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection.

**Alternative:**

Alternative S1<sup>1</sup> (preferred or only site alternative): **substation**

Alternative S2 (if any): **substation**

Alternative S3 (if any)

Latitude (S):		Longitude (E):	
33°	21'34.3940"	18°	37'50.8927"
33°	22'37.1204"	18°	38'12.3060"
°	'	°	'

**In the case of linear activities:**

**Alternative:**

Alternative S1 (preferred or only route alternative)

- Starting point of the activity
- Middle point of the activity
- End point of the activity

Latitude (S):		Longitude (E):	
33°	10'51.9879"	18°	41'07.8632"
33°	18'21.9962"	18°	42'55.1571"
33°	21'34.3940"	18°	37'50.8927"

Alternative S2 (if any)

- Starting point of the activity
- Middle point of the activity
- End point of the activity

33°	19'01.3348"	18°	43'02.5942"
33°	18'21.9962"	18°	42'55.1571"
33°	22'37.1204"	18°	38'12.3060"

Alternative S3 (if any)

- Starting point of the activity
- Middle point of the activity
- End point of the activity

°	'	°	'
°	'	°	'
°	'	°	'

**The geology of the study area is made up of the Malmesbury Group, including hornfels and phyllites. The basement was intruded by the Cape Granite Suite, resulting in the occurrence of granites in Malmesbury. These old basement rocks were then overlain by the very much younger cretaceous/tertiary Langebaan Formation phosphatic and calcareous sediments. Large portions of the study area later became overlain by two ages of unconsolidated sands, being the generally yellow older sands of the Springfontein Formation. The study area was previously dominated by the West Coast vegetation.**

For route alternatives that are longer than 500m, please provide an addendum with co-ordinates taken every 250 meters along the route for each alternative alignment.

### 5. PHYSICAL SIZE OF THE ACTIVITY

Indicate the physical size of the preferred activity/technology as well as alternative activities/technologies (footprints):

**Alternative:**

Alternative Site<sup>12</sup> (preferred activity alternative – Site A - substation)

Alternative A2 Site B - substation)

**Size of the activity:**

46.23m <sup>2</sup>
46.23m <sup>2</sup>

<sup>1</sup> "Alternative S.." refer to site alternatives.

<sup>2</sup> "Alternative A.." refer to activity, process, technology or other alternatives.



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Alternative A3 (if any) or, for linear activities: <b>Alternative:</b>	m <sup>2</sup>
Alternative A1 (preferred Route A activity alternative)	<b>Length of the activity:</b> 28,227 km
Alternative Route BA2 (if any)	25,426 km
Alternative A3 (if any)	m

Indicate the size of the alternative sites or servitudes (within which the above footprints will occur):

<b>Alternative:</b>	<b>Size of the site/servitude:</b>
Alternative A1 (preferred activity alternative – Site A)	46.23 m <sup>2</sup>
Alternative A2 (Site B)	46.23 m <sup>2</sup>
Alternative A3 (if any)	m <sup>2</sup>

**6. SITE ACCESS**

Does ready access to the site exist, or is access directly from an existing road? **YES** **NO**  
 If NO, what is the distance over which a new access road will be built ±20m

Describe the type of access road planned:.

**Where no tracks exist, gravel roads will be created from the Divisional/ Minor/ Trunk Roads (please refer to the EMP for further information).**

Include the position of the access road on the site plan.

**7. WASTE, EFFLUENT, EMISSION AND NOISE MANAGEMENT**

**7(a) Solid waste management**

Will the activity produce solid construction waste during the construction/initiation phase? **YES** **NO**

If yes, what estimated quantity will be produced per month? ± 10m<sup>3</sup>

How will the construction solid waste be disposed of (describe)?

**The solid waste generated during the construction phase, will be collected in containers and transported with a truck from the construction site to a nearby registered municipal waste landfill site.**

Where will the construction solid waste be disposed of (describe)?

**The waste will be disposed of at a nearest registered municipal landfill site.**

Will the activity produce solid waste during its operational phase? **YES** **NO**

If yes, what estimated quantity will be produced per month? m<sup>3</sup>

How will the solid waste be disposed of (describe)? **N/A**

Where will the solid waste be disposed if it does not feed into a municipal waste stream (describe)?

**N/A**

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If the solid waste (construction or operational phases) will not be disposed of in a registered landfill site or be taken up in a municipal waste stream, then the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

Can any part of the solid waste be classified as hazardous in terms of the relevant legislation? 

YES	NO
-----	----

If yes, inform the competent authority and request a change to an application for scoping and EIA.

Is the activity that is being applied for a solid waste handling or treatment facility? 

YES	NO
-----	----

If yes, then the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

Describe the measures, if any that will be taken to ensure the optimal reuse or recycling of materials: **The solid waste that can be recycled will be separated and sent to a recycling facility.**

Has a specialist been consulted to assist with the completion of this section? 

YES	NO
-----	----

If YES, please complete:

Name of the specialist:			
Qualification(s) of the specialist:			
Postal address:			
Postal code:			
Telephone:		Cell:	
E-mail:		Fax:	

Are any further specialist studies recommended by the specialist? 

YES	NO
-----	----

If YES, specify: 

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If YES, is such a report(s) attached? 

YES	NO
-----	----

Signature of \_\_\_\_\_ Date:

**7(b) Liquid effluent**

Will the activity produce effluent, other than normal sewage, that will be disposed of in a municipal sewage system? 

YES	NO
-----	----

If yes, what estimated quantity will be produced per month? 

m <sup>3</sup>
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Will the activity produce any effluent that will be treated and/or disposed of on site? 

YES	NO
-----	----

If yes, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

Will the activity produce effluent that will be treated and/or disposed of at another facility? 

YES	NO
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If yes, provide the particulars of the facility:

Facility name:	
Contact person:	

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Postal address:			
Postal code:			
Telephone:		Cell:	
E-mail:		Fax:	

Describe the measures that will be taken to ensure the optimal reuse or recycling of waste water, if any:

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Has a specialist been consulted to assist with the completion of this section?	<b>YES</b>	NO
--	------------	----

If YES, please complete:

Name of the specialist:			
Qualification(s) of the specialist:			
Postal address:			
Postal code:			
Telephone:		Cell:	
E-mail:		Fax:	

Are any further specialist studies recommended by the specialist?	YES	NO
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If YES, specify:			
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If YES, is such a report(s) attached?	YES	NO
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Signature of specialist:		Date:	
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**7(c) Emissions into the atmosphere**

Will the activity release emissions into the atmosphere?	<b>YES</b>	NO
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If yes, is it controlled by any legislation of any sphere of government?	YES	NO
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If yes, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

If no, describe the emissions in terms of type and concentration:

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Has a specialist been consulted to assist with the completion of this section?	<b>YES</b>	NO
--	------------	----

If YES, please complete:

Name of the specialist:			
Qualification(s) of the specialist:			
Postal address:			
Postal code:			
Telephone:		Cell:	
E-mail:		Fax:	

Are any further specialist studies recommended by the specialist?	YES	NO
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If YES, specify:			
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If YES, is such a report(s) attached?	YES	NO
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Signature of \_\_\_\_\_ Date:

specialist: \_\_\_\_\_

**7(d) Generation of noise**

Will the activity generate noise? 

YES	NO
YES	NO

If yes, is it controlled by any legislation of any sphere of government?

If yes, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

If no, describe the noise in terms of type and level:

**Most noise would originate during the construction phase due to the use of construction vehicles and other construction equipment. No noise as such will be generated during the operational phase, except the negligible humming sound of the transformers.**

Has a specialist been consulted to assist with the completion of this section? 

YES	NO
-----	----

If YES, please complete:

Name of the specialist:

Qualification(s) of the specialist:

Postal address:

Postal code:

Telephone:  Cell:

E-mail:  Fax:

Are any further specialist studies recommended by the specialist? 

YES	NO
-----	----

If YES, specify:

If YES, is such a report(s) attached? 

YES	NO
-----	----

Signature of \_\_\_\_\_ Date:

specialist: \_\_\_\_\_

**8. WATER USE**

Please indicate the source(s) of water that will be used for the activity by ticking the appropriate box (es)

municipal	water board	groundwater	river, stream, dam or lake	other	the activity will not use water ✓
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If water is to be extracted from groundwater, river, stream, dam, lake or any other natural feature, please indicate

the volume that will be extracted per month: 

litres
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Does the activity require a water use permit from the Department of Water Affairs and Forestry? 

YES	NO
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If yes, please submit the necessary application to the Department of Water Affairs and Forestry and attach proof thereof to this application if it has been submitted.

**CONSTRUCTION PHASE:**

- During the construction phase drinking water will be transported to the construction site and stored in water tanks. Ready mix cement will be used. The obtaining of the water will be negotiated with the local municipality.

**OPERATIONAL PHASE:**

- The activity will not use water during the operational phase of the 66/11 kV powerline and substation.

**DECOMMISSION PHASE:**

- The activity will not use water during the decommission phase of the 66/11 kV powerline and substation.

**9. ENERGY EFFICIENCY**

Describe the design measures, if any, that have been taken to ensure that the activity is energy efficient:

**N/A – the activity entails the construction of the powerline and a substation.**

Describe how alternative energy sources have been taken into account or been built into the design of the activity, if any:

**N/A - the activity entails the construction of the powerline and a substation.**

**10. SITE OR ROUTE PLAN**

A detailed site or route plan(s) must be prepared for each alternative site or alternative activity. It must be attached as Appendix A to this document. The site or route plans must indicate the following:

- 10(a) the scale of the plan which must be at least a scale of 1:500;
- 10(b) the property boundaries and numbers of all the properties within 50m of the site;
- 10(c) the current land use as well as the land use zoning of each of the properties adjoining the site or sites;
- 10(d) the exact position of each element of the application as well as any other structures on the site;
- 10(e) the position of services, including electricity supply cables (indicate above or underground), water supply pipelines, boreholes, street lights, sewage pipelines, storm water infrastructure and telecommunication infrastructure;
- 10(f) all trees and shrubs taller than 1.8m;
- 10(g) walls and fencing including details of the height and construction material;
- 10(h) servitudes indicating the purpose of the servitude;
- 10(i) sensitive environmental elements within 100m of the site or sites including (but not limited thereto):
  - rivers;
  - the 1:100 year flood line (where available or where it is required by DWAF);
  - ridges;
  - cultural and historical features;
  - areas with indigenous vegetation (even if it is degraded or invested with alien species);

- 10(j) for gentle slopes the 1m contour intervals must be indicated on the plan and whenever the slope of the site exceeds 1:10, the 500mm contours must be indicated on the plan; and
- 10(k) the positions from where photographs of the site were taken.

**11. SITE PHOTOGRAPHS**

Colour photographs from the centre of the site must be taken in at least the eight major compass directions with a description of each photograph. Photographs must be attached under Appendix B to this form. It should be supplemented with additional photographs of relevant features on the site, if applicable.

**12. FACILITY ILLUSTRATION**

A detailed illustration of the activity must be provided at a scale of 1:200 as Appendix C for activities that include structures. The illustrations must be to scale and must represent a realistic image of the planned activity. The illustration must give a representative view of the activity.

**13. ACTIVITY MOTIVATION**

**13(a) Socio-economic value of the activity**

- What is the expected capital value of the activity on completion?
- What is the expected yearly income that will be generated by or as a result of the activity?
- Will the activity contribute to service infrastructure?
- Is the activity a public amenity?
- How many new employment opportunities will be created in the development phase of the activity?
- What is the expected value of the employment opportunities during the development phase?
- What percentage of this will accrue to previously disadvantaged individuals?
- How many permanent new employment opportunities will be created during the operational phase of the activity?
- What is the expected current value of the employment opportunities during the first 10 years?
- What percentage of this will accrue to previously disadvantaged individuals?

± R 200 m
Unknown
YES NO
YES NO
Unknown, Eskom will use contractors on its vendor list.
Unknown
N/A
Eskom will use its own employees.
N/A
N/A

**13(b) Need and desirability of the activity**

Motivate and explain the need and desirability of the activity (including demand for the activity):

**Malmesbury Farmers (F) 1 peaked in July 2008 with 2.361 MVA. The calculated feeder growth is 3.1% per annum. Malmesbury F1 is experiencing voltage problems with**

voltages on some parts of the feeder being below the 95 % limit. Several new power applications have been received on Malmesbury F1, however, there is no more spare capacity on Malmesbury F1 to accommodate these loads due to voltage constraints. Further, it must be noted that Eskom provides an essential service of electricity and due to economic and electricity pressures, it needs to be able to fulfil its legal obligations.

Indicate any benefits that the activity will have for society in general:

**The activity will improve the reliability of power supply to the Moorreesburg-Vyvlei area ..**

Indicate any benefits that the activity will have for the local communities where the activity will be located:

- **The farming community as well as the Swartland Municipality will benefit in terms of more reliable source of power supply.**
- **The extension of farming and new developments through the Swartland Municipality could contribute to more jobs being provided in the area.**
- **The power supply network of Eskom will be strengthened. This will improve service delivery of Eskom as well as lessening power failures due to overloading of equipment.**

#### 14. APPLICABLE LEGISLATION, POLICIES AND/OR GUIDELINES

List all legislation, policies and/or guidelines of any sphere of government that are applicable to the application as contemplated in the EIA regulations, if applicable:

Title of legislation, policy or guideline:	Administering authority:	Date:
<p><b>The proposed project falls within the ambit of the following listed activities contained in the Government Notice Regulations 387 and 386 of 2006 [With amendments of 3 July 2009] in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998):</b></p> <ul style="list-style-type: none"> <li>• 1 (l) - the construction of facilities or infrastructure, including associated structures or infrastructure, for the transmission and distribution of electricity above ground with a capacity of more than 33 kilovolts and less than 120 kilovolts.</li> <li>• 15 - The construction of the road that is wider</li> </ul>	<p><b>Department of Environmental Affairs</b></p>	<p><b>2009</b></p>

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<p>than 4m or that has a reserve wider than 6m, excluding roads that fall within the ambit of another listed activity or which are access roads of less than 30m long.</p> <ul style="list-style-type: none"> <li>• <b>Environment Conservation Act, 1989 (Act No. 73 of 1989)</b></li> <li>• <b>Noise Control Regulations, 1998</b></li> <li>• <b>Atmospheric Pollution Prevention Act No. 45 of 1965</b></li> <li>• <b>Conservation of Agricultural Resources Act No. 43 of 1983</b></li> <li>• <b>Fencing Act No. 31 of 1963</b></li> <li>• <b>Local Municipality IDP/SDF</b></li> <li>• <b>Swaartland Municipality By-Law relating to streets, public places and the prevention of noise nuisances</b></li> <li>• <b>Swaartland Municipality By-law relating to storm water management</b></li> <li>• <b>Swaartland Municipality By-law relating to environmental health</b></li> <li>• <b>Swaartland Municipality Dumping and Littering by-law</b></li> <li>• <b>Swaartland Municipality Electricity Supply By-law</b></li> </ul>	<p>DEA&amp;DP/ DEAT</p> <p>DEA&amp;DP/ DEAT</p> <p>DEAT</p> <p>Department of Agriculture</p> <p>Department of Agriculture</p> <p>Swaartland Municipality</p>	<p>1989</p> <p>1998</p> <p>1965</p> <p>of 1983</p> <p>of 1963</p>
--	--	---

**SECTION C: SITE/AREA DESCRIPTION**

**Important note:** For linear activities (pipelines etc) as well as activities that cover very large sites, it may be necessary to complete Section C for each part of the site that has a significantly different environment. In such cases please complete copies of Section C and indicate the area, which is covered by each copy No. on the Site Plan.

**Route A and Route B as well as the substation Site A and Site B have the same environment.**

Section C Copy No.   
 (e.g. A):  
 (Complete only when appropriate)

**1. GRADIENT OF THE SITE**

Indicate the general gradient of the sites.

**Alternative S1:**

Flat	1:50	–	1:20	–	1:15 – 1:10	1:10	–	1:7,5 – 1:5	Steeper than 1:5
	1:20		1:15			1:7,5 ✓			

**Alternative S2:**



## BASIC ASSESSMENT REPORT

Flat	1:50 1:20	-	1:20 1:15	-	1:15 – 1:10	1:10 1:7,5✓	-	1:7,5 – 1:5	Steeper than 1:5
------	--------------	---	--------------	---	-------------	----------------	---	-------------	---------------------

**Alternative S3:**

Flat	1:50 1:20	-	1:20 1:15	-	1:15 – 1:10	1:10 1:7,5	-	1:7,5 – 1:5	Steeper than 1:5
------	--------------	---	--------------	---	-------------	---------------	---	-------------	---------------------

### 2. LOCATION IN LANDSCAPE

Indicate the landform(s) that best describes the site.

**Alternative S1:**

Ridgeline	Plateau	Side slope of hill/mountain	Closed valley	Open valley	Plain✓	Undulating plain/low hills✓	Dune	Sea- front
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**Alternative S2:**

Ridgeline	Plateau	Side slope of hill/mountain	Closed valley	Open valley	Plain✓	Undulating plain/low hills✓	Dune	Sea- front
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**Alternative S3:**

Ridgeline	Plateau	Side slope of hill/mountain	Closed valley	Open valley	Plain	Undulating plain/low hills	Dune	Sea- front
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### 3. GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE

Is the site(s) located on any of the following (tick the appropriate boxes)?

	Alternative S1:		Alternative S2:		Alternative S3:	
Shallow water table (less than 1.5m deep)	YES	NO✓	YES	NO✓	YES	NO
Dolomite, sinkhole or doline areas	YES	NO✓	YES	NO✓	YES	NO
Seasonally wet soils (often close to water bodies)	YES	NO✓	YES	NO✓	YES	NO
Unstable rocky slopes or steep slopes with loose soil	YES	NO✓	YES	NO✓	YES	NO
Dispersive soils (soils that dissolve in water)	YES	NO✓	YES	NO✓	YES	NO
Soils with high clay content (clay fraction more than 40%)	YES	NO✓	YES	NO✓	YES	NO
Any other unstable soil or geological feature	YES	NO✓	YES	NO✓	YES	NO
An area sensitive to erosion	YES	NO✓	YES	NO✓	YES	NO

If you are unsure about any of the above or if you are concerned that any of the above aspects may be an issue of concern in the application, an appropriate specialist should be appointed to assist in the completion of this section. (Information in respect of the above will often be available as part of the project information or at the planning sections of local authorities.

## BASIC ASSESSMENT REPORT

Where it exists, the 1:50 000 scale Regional Geotechnical Maps prepared by the Council for Geo Science may also be consulted).

Has a specialist been consulted to assist with the completion of this section? **YES**  **NO**

If YES, please complete:

Name of the specialist:			
Qualification(s) of the specialist:			
Postal address:			
Postal code:			
Telephone:		Cell:	
E-mail:		Fax:	

Are any further specialist studies recommended by the specialist? **YES**  **NO**

If YES, specify: **YES**  **NO**

If YES, is such a report(s) attached? **YES**  **NO**

Signature of specialist: \_\_\_\_\_ Date: \_\_\_\_\_

### 4. GROUNDCOVER

Tick the types of groundcover present on the site.

#### Alternative S1:

Natural veld - good condition <sup>E</sup>	Natural veld with scattered aliens <sup>E</sup>	Natural veld with heavy alien infestation <sup>E</sup>	Veld dominated by alien species <sup>E</sup>	Gardens
Sport field	Cultivated land ✓	Paved surface	Building or other structure	Bare soil

If any of the boxes marked with an "E" is ticked, please consult an appropriate specialist to assist in the completion of this section if the environmental assessment practitioner doesn't have the necessary expertise.

Has a specialist been consulted? **YES**  **NO**

If YES, please complete the following:

Name of the specialist:			
Qualification(s) of the specialist:			
Postal address:			
Postal code:			
Telephone:		Cell:	
E-mail:		Fax:	

Are there any rare or endangered flora or fauna species (including red data species) present on any of the alternative sites? **YES**  **NO**

If YES, specify and explain: \_\_\_\_\_

Are there any special or sensitive habitats or other natural features present on any of the alternative sites? **YES**  **NO**

## BASIC ASSESSMENT REPORT

If YES, specify and explain:

Are any further specialist studies recommended by the specialist? YES NO

If YES, specify:

If YES, is such a report(s) attached? YES NO

Signature of \_\_\_\_\_ Date:

specialist: \_\_\_\_\_

The location of all identified rare or endangered species or other elements should be accurately indicated on the site plan(s).

### Alternative S2:

Natural veld - good condition <sup>E</sup>	Natural veld with scattered aliens <sup>E</sup>	Natural veld with heavy alien infestation <sup>E</sup>	Veld dominated by alien species <sup>E</sup>	Gardens
Sport field	Cultivated land ✓	Paved surface	Building or other structure	Bare soil

If any of the boxes marked with an “E” is ticked, please consult an appropriate specialist to assist in the completion of this section if the environmental assessment practitioner doesn’t have the necessary expertise.

Has a specialist been consulted? YES NO

If YES, please complete the following:

Name of the specialist:

Qualification(s) of the specialist:

Postal address:

Postal code:

Telephone:  Cell:

E-mail:  Fax:

Are there any rare or endangered flora or fauna species (including red data species) present on any of the alternative sites? YES NO

If YES, specify and explain:

Are there any special or sensitive habitats or other natural features present on any of the alternative sites? YES NO

If YES, specify and explain:

Are any further specialist studies recommended by the specialist? YES NO

If YES, specify:

If YES, is such a report(s) attached? YES NO

Signature of \_\_\_\_\_ Date:

specialist: \_\_\_\_\_

**BASIC ASSESSMENT REPORT**

The location of all identified rare or endangered species or other elements should be accurately indicated on the site plan(s).

**Alternative S3: N/A**

Natural veld - good condition <sup>E</sup>	Natural veld with scattered aliens <sup>E</sup>	Natural veld with heavy alien infestation <sup>E</sup>	Veld dominated by alien species <sup>E</sup>	Gardens
Sport field	Cultivated land	Paved surface	Building or other structure	Bare soil

If any of the boxes marked with an "E" is ticked, please consult an appropriate specialist to assist in the completion of this section if the environmental assessment practitioner doesn't have the necessary expertise.

Has a specialist been consulted?

YES	NO
-----	----

If YES, please complete the following:

Name of the specialist:			
Qualification(s) of the specialist:			
Postal address:			
Postal code:			
Telephone:		Cell:	
E-mail:		Fax:	

Are there any rare or endangered flora or fauna species (including red data species) present on any of the alternative sites?

YES	NO
-----	----

If YES, specify and explain:

--

Are there any special or sensitive habitats or other natural features present on any of the alternative sites?

YES	NO
-----	----

If YES, specify and explain:

--

Are any further specialist studies recommended by the specialist?

YES	NO
-----	----

If YES, specify:

--

If YES, is such a report(s) attached?

YES	NO
-----	----

Signature of \_\_\_\_\_ Date: \_\_\_\_\_

The location of all identified rare or endangered species or other elements should be accurately indicated on the site plan(s).

**5. LAND USE CHARACTER OF SURROUNDING AREA**

Black out land uses and/or prominent features that does not currently occur within a 500m radius of the site

**Alternative S1:**

Natural area	Low density	Medium density	High density	Informal
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**BASIC ASSESSMENT REPORT**

	residential	residential	residential	residential <sup>A</sup>
Retail	Commercial & warehousing	Light industrial	Medium industrial <sup>AN</sup>	Heavy industrial <sup>AN</sup>
Power station <sup>A</sup>	Office/consulting room	Military or police base/station/compound	Casino/entertainment complex	Hospitality facility
Open cast mine	Underground mine	Spoil heap or slimes dam <sup>A</sup>	Quarry, sand or borrow pit	Dam or reservoir
Hospital/medical centre	School	Tertiary education facility	Church	Old age home
Sewage treatment plant <sup>A</sup>	Train station or shunting yard <sup>N</sup>	Railway line <sup>N</sup>	Major road (4 lanes or more) <sup>N</sup>	Airport <sup>N</sup>
Harbour	Sport facilities	Golf course	Polo fields	Filling station <sup>H</sup>
Landfill or waste treatment site <sup>A</sup>	Plantation	Agriculture	River, stream or wetland	Nature conservation area
Mountain, koppie or ridge	Museum	Historical building	Graveyard	Archaeological site
Other land uses (describe):				

If any of the boxes marked with an "N" are ticked, please consult an appropriate noise specialist to assist in the completion of this section.

Has a specialist been consulted?

<b>YES</b>	<b>NO</b>
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If YES, please complete the following:

Name of the specialist:			
Qualification(s) of the specialist:			
Postal address:			
Postal code:			
Telephone:		Cell:	
E-mail:		Fax:	

Will the ambient noise level have a negative impact on the proposed activity? YES NO

If YES, specify and explain:

--

Is any further specialist or studies recommended by the specialist? YES NO

If YES, specify:

--

If YES, is such a report(s) attached? YES NO

Signature of \_\_\_\_\_ of \_\_\_\_\_ Date: \_\_\_\_\_

## BASIC ASSESSMENT REPORT

If any of the boxes marked with an "An" are ticked, please consult an appropriate air quality specialist to assist in the completion of this section.

Has a specialist been consulted? 

YES	NO
-----	----

If YES, please complete the following:

Name of the specialist:			
Qualification(s) of the specialist:			
Postal address:			
Postal code:			

Telephone:		Cell:	
E-mail:		Fax:	

Will the ambient air pollution level have a negative impact on the proposed activity? 

YES	NO
-----	----

If YES, specify and explain:

Are any further specialist studies recommended by the specialist? 

YES	NO
-----	----

If YES, specify:

If YES, is such a report(s) attached? 

YES	NO
-----	----

Signature of \_\_\_\_\_ Date: 

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If any of the boxes marked with an "H" are ticked, please consult an appropriate health assessment specialist to assist in the completion of this section.

Has a specialist been consulted? 

YES	NO
-----	----

If YES, please complete the following:

Name of the specialist:			
Qualification(s) of the specialist:			
Postal address:			
Postal code:			

Telephone:		Cell:	
E-mail:		Fax:	

Will the surrounding land use pose any unacceptable health risk on the proposed activity? 

YES	NO
-----	----

If YES, specify and explain:

Are any further specialist studies recommended by the specialist? 

YES	NO
-----	----

If YES, specify:

If YES, is such a report(s) attached? 

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Signature of \_\_\_\_\_ Date: 

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**BASIC ASSESSMENT REPORT**

**Alternative S2:**

Natural area	Low density residential	Medium density residential	High density residential	Informal residential <sup>A</sup>
Retail	Commercial & warehousing	Light industrial	Medium industrial <sup>AN</sup>	Heavy industrial <sup>AN</sup>
Power station <sup>A</sup>	Office/consulting room	Military or police base/station/compound	Casino/entertainment complex	Hospitality facility
Open cast mine	Underground mine	Spoil heap or slimes dam <sup>A</sup>	Quarry, sand or borrow pit	Dam or reservoir
Hospital/medical centre	School	Tertiary education facility	Church	Old age home
Sewage treatment plant <sup>A</sup>	Train station or shunting yard <sup>N</sup>	Railway line <sup>N</sup>	Major road (4 lanes or more) <sup>N</sup>	Airport <sup>N</sup>
Harbour	Sport facilities	Golf course	Polo fields	Filling station <sup>H</sup>
Landfill or waste treatment site <sup>A</sup>	Plantation	Agriculture	River, stream or wetland	Nature conservation area
Mountain, koppie or ridge	Museum	Historical building	Graveyard	Archaeological site
Other land uses (describe):				

If any of the boxes marked with an "N" are ticked, please consult an appropriate noise specialist to assist in the completion of this section.

Has a specialist been consulted? **YES**  **NO**

If YES, please complete the following:

Name of the specialist:			
Qualification(s) of the specialist:			
Postal address:			
Postal code:			
Telephone:	<input type="text"/>	Cell:	<input type="text"/>
E-mail:	<input type="text"/>	Fax:	<input type="text"/>

Will the ambient noise level have a negative impact on the proposed activity? **YES**  **NO**

If YES, specify and explain:

Are any further specialist studies recommended by the specialist? **YES**  **NO**

If YES, specify:

If YES, is such a report(s) attached? **YES**  **NO**

## BASIC ASSESSMENT REPORT

Signature of \_\_\_\_\_ Date:   
 specialist: \_\_\_\_\_

If any of the boxes marked with an "A" are ticked, please consult an appropriate air quality specialist to assist in the completion of this section.

Has a specialist been consulted? 

YES	NO
-----	----

If YES, please complete the following:

Name of the specialist:	<input style="width: 100%;" type="text"/>		
Qualification(s) of the specialist:	<input style="width: 100%;" type="text"/>		
Postal address:	<input style="width: 100%;" type="text"/>		
Postal code:	<input style="width: 100%;" type="text"/>		
Telephone:	<input style="width: 90%;" type="text"/>	Cell:	<input style="width: 90%;" type="text"/>
E-mail:	<input style="width: 90%;" type="text"/>	Fax:	<input style="width: 90%;" type="text"/>

Will the ambient air pollution level have a negative impact on the proposed activity? 

YES	NO
-----	----

If YES, specify and explain:

Are any further specialist studies recommended by the specialist? 

YES	NO
-----	----

If YES, specify:

If YES, is such a report(s) attached? 

YES	NO
-----	----

Signature of \_\_\_\_\_ Date:   
 specialist: \_\_\_\_\_

If any of the boxes marked with an "H" are ticked, please consult an appropriate health assessment specialist to assist in the completion of this section.

Has a specialist been consulted? 

YES	NO
-----	----

If YES, please complete the following:

Name of the specialist:	<input style="width: 100%;" type="text"/>		
Qualification(s) of the specialist:	<input style="width: 100%;" type="text"/>		
Postal address:	<input style="width: 100%;" type="text"/>		
Postal code:	<input style="width: 100%;" type="text"/>		
Telephone:	<input style="width: 90%;" type="text"/>	Cell:	<input style="width: 90%;" type="text"/>
E-mail:	<input style="width: 90%;" type="text"/>	Fax:	<input style="width: 90%;" type="text"/>

Will the surrounding land use pose any unacceptable health risk on the proposed activity? 

YES	NO
-----	----

If YES, specify and explain:

Are any further specialist studies recommended by the specialist? 

YES	NO
-----	----

If YES, specify:

If YES, is such a report(s) attached? 

YES	NO
-----	----



## BASIC ASSESSMENT REPORT

Signature of \_\_\_\_\_ Date:   
 specialist: \_\_\_\_\_

**Alternative S3: N/A**

Natural area	Low density residential	Medium density residential	High density residential	Informal residential <sup>A</sup>
Retail	Commercial & warehousing	Light industrial	Medium industrial <sup>AN</sup>	Heavy industrial <sup>AN</sup>
Power station <sup>A</sup>	Office/consulting room	Military or police base/station/compound	Casino/entertainment complex	Hospitality facility
Open cast mine	Underground mine	Spoil heap or slimes dam <sup>A</sup>	Quarry, sand or borrow pit	Dam or reservoir
Hospital/medical centre	School	Tertiary education facility	Church	Old age home
Sewage treatment plant <sup>A</sup>	Train station or shunting yard <sup>N</sup>	Railway line <sup>N</sup>	Major road (4 lanes or more) <sup>N</sup>	Airport <sup>N</sup>
Harbour	Sport facilities	Golf course	Polo fields	Filling station <sup>H</sup>
Landfill or waste treatment site <sup>A</sup>	Plantation	Agriculture	River, stream or wetland	Nature conservation area
Mountain, koppie or ridge	Museum	Historical building	Graveyard	Archaeological site
Other land uses (describe):				

If any of the boxes marked with an "N" are ticked, please consult an appropriate noise specialist to assist in the completion of this section.

Has a specialist been consulted? YES NO

If YES, please complete the following:

Name of the specialist:			
Qualification(s) of the specialist:			
Postal address:			
Postal code:			
Telephone:		Cell:	
E-mail:		Fax:	

Will the ambient noise level have a negative impact on the proposed activity? YES NO

If YES, specify and explain:

Are any further specialist studies recommended by the specialist? YES NO

If YES, specify:

**BASIC ASSESSMENT REPORT**

If YES, is such a report(s) attached?

YES	NO
-----	----

Signature of \_\_\_\_\_  
specialist: \_\_\_\_\_

Date: 

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If any of the boxes marked with an "A" are ticked, please consult an appropriate air quality specialist to assist in the completion of this section.

Has a specialist been consulted?

YES	NO
-----	----

If YES, please complete the following:

Name of the specialist:			
Qualification(s) of the specialist:			
Postal address:			
Postal code:			
Telephone:		Cell:	
E-mail:		Fax:	

Will the ambient air pollution level have a negative impact on the proposed activity?

YES	NO
-----	----

If YES, specify and explain:

--

Are any further specialist studies recommended by the specialist?

YES	NO
-----	----

If YES, specify:

--

If YES, is such a report(s) attached?

YES	NO
-----	----

Signature of \_\_\_\_\_  
specialist: \_\_\_\_\_

Date: 

--

If any of the boxes marked with an "H" are ticked, please consult an appropriate health assessment specialist to assist in the completion of this section.

Has a specialist been consulted?

YES	NO
-----	----

If YES, please complete the following:

Name of the specialist:			
Qualification(s) of the specialist:			
Postal address:			
Postal code:			
Telephone:		Cell:	
E-mail:		Fax:	

Will the surrounding land use pose any unacceptable health risk on the proposed activity?

YES	NO
-----	----

If YES, specify and explain:

--

Are any further specialist studies recommended by the specialist?

YES	NO
-----	----

If YES, specify:

--

If YES, is such a report(s) attached?

--	--

BASIC ASSESSMENT REPORT

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Signature of \_\_\_\_\_ Date:   
 specialist: \_\_\_\_\_

**6. CULTURAL/HISTORICAL FEATURES**

**Alternative S1**

Are there any signs of culturally or historically significant elements, as defined in section 2 of the National Heritage Resources Act, 1999, (Act No. 25 of 1999), including	YES	NO
Archaeological or palaeontological sites, on or close (within 20m) to the site?	Uncertain	
If YES, explain:		
If uncertain, conduct a specialist investigation by a recognised specialist in the field to establish whether there is such a feature(s) present on or close to the site.		
Briefly explain the findings of the specialist:		
Will any building or structure older than 60 years be affected in any way?	YES	NO
Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?	YES	NO
If yes, please submit or, make sure that the applicant or a specialist submits the necessary application to SAHRA or the relevant provincial heritage agency and attach proof thereof to this application if such application has been made.		

**Alternative S2**

Are there any signs of culturally or historically significant elements, as defined in section 2 of the National Heritage Resources Act, 1999, (Act No. 25 of 1999), including	YES	NO
Archaeological or palaeontological sites, on or close (within 20m) to the site?	Uncertain	
If YES, explain:		
If uncertain, conduct a specialist investigation by a recognised specialist in the field to establish whether there is such a feature(s) present on or close to the site.		
Briefly explain the findings of the specialist:		
Will any building or structure older than 60 years be affected in any way?	YES	NO
Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?	YES	NO
If yes, please submit or, make sure that the applicant or a specialist submits the necessary application to SAHRA or the relevant provincial heritage agency and attach proof thereof to this application if such application has been made.		

**Alternative S3: N/A**

Are there any signs of culturally or historically significant elements, as defined in section 2 of the National Heritage Resources Act, 1999, (Act No. 25 of 1999), including archaeological or palaeontological sites, on or close (within 20m) to the site?	YES	NO
If YES, explain:	Uncertain	
If uncertain, conduct a specialist investigation by a recognised specialist in the field to establish whether there is such a feature(s) present on or close to the site.		
Briefly explain the findings of the specialist:		
Will any building or structure older than 60 years be affected in any way?	YES	NO
Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?	YES	NO
If yes, please submit or, make sure that the applicant or a specialist submits the necessary application to SAHRA or the relevant provincial heritage agency and attach proof thereof to this application if such application has been made.		

**SECTION D: PUBLIC PARTICIPATION**

**1. ADVERTISEMENT**

The environmental assessment practitioner must follow any relevant guidelines adopted by the competent authority in respect of public participation and must at least –

- 1(a) Fix a notice in a conspicuous place, on the property where it is intended to undertake the activity which states that an application will be submitted to the competent authority in terms of these regulations and which provides information on the proposed nature and location of the activity, where further information on the proposed activity can be obtained and the manner in which representations on the application may be made.
- 1(b) inform landowners and occupiers of adjacent land of the applicant’s intention to submit an application to the competent authority
- 1(c) inform landowners and occupiers of land within 100 metres of the boundary of the property where it is proposed to undertake the activity and whom may be directly affected by the proposed activity of the applicant’s intention to submit an application to the competent authority;
- 1(d) inform the ward councillor and any organisation that represents the community in the area of the applicant’s intention to submit an application to the competent authority;
- 1(e) inform the municipality which has jurisdiction over the area in which the proposed activity will be undertaken of the applicant’s intention to submit an application to the competent authority; and
- 1(f) inform any organ of state that may have jurisdiction over any aspect of the activity of the applicant’s intention to submit an application to the competent authority; and
- 1(g) place a notice in one local newspaper and any *Gazette* that is published specifically for the purpose of providing notice to the public of applications made in terms of these regulations.

**2. CONTENT OF ADVERTISEMENTS AND NOTICES**

Advertisements and notices must indicate that an application will be submitted to the competent authority in terms of the EIA regulations, the nature and location of the activity, where further information on the proposed activity can be obtained and the manner in which representations in respect of the application can be made;

**3. PLACEMENT OF ADVERTISEMENTS AND NOTICES**

Where the proposed activity may have impacts that extend beyond the municipal area where it is located, a notice must be placed in at least one provincial newspaper or national newspaper, indicating that an application will be submitted to the competent authority in terms of these regulations, the nature and location of the activity, where further information on the proposed activity can be obtained and the manner in which representations in respect of the application can be made, unless a notice has been placed in any *Gazette* that is published specifically for the purpose of providing notice to the public of applications made in terms of the EIA regulations.

Advertisements and notices must make provision for site alternatives where appropriate.

**4. DETERMINATION OF APPROPRIATE MEASURES**

The practitioner must ensure that the public participation is adequate and must determine whether a public meeting or any other additional measure is appropriate or not based on the particular nature of each case. Special attention should be given to the involvement of local community structures such as Ward Committees, ratepayers associations and traditional authorities where appropriate. Please note that public concerns that emerge at a later stage that should have been addressed may cause the competent authority to withdraw any authorisation it may have issued if it becomes apparent that the public participation process was inadequate.

**5. COMMENTS AND RESPONSE REPORT**

The practitioner must record all comments and respond to each comment of the public before the application is submitted. The comments and responses must be captured in a comments and response report as prescribed in the EIA regulations and be attached to this application. The comments and response report must be attached under Appendix E.

**6. LOCAL AUTHORITY PARTICIPATION**

Local authorities are key interested and affected parties in each application and no decision on any application will be made before the relevant local authority is provided with the opportunity to give input. The planning and the environmental sections of the local authority must be informed of the application at least 30 (thirty) calendar days before the submission of the application.

Has any comment been received from the local authority?

YES	NO
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If "YES", briefly describe the feedback below (also attach any correspondence to and from the local authority to this application):

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**7. CONSULTATION WITH OTHER STAKEHOLDERS**

Any stakeholder that has a direct interest in the site or property, such as servitude holders and service providers, should be informed of the application at least 30 (thirty) calendar days before the submission of the application and be provided with the opportunity to comment.

Has any comment been received from stakeholders?

<b>YES</b>	<b>NO</b>
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If "YES", briefly describe the feedback below (also attach copies of any correspondence to and from the stakeholders to this application):

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**SECTION E: IMPACT ASSESSMENT**

The assessment of impacts must adhere to the minimum requirements in the EIA Regulations, 2006, and should take applicable official guidelines into account. The issues raised by interested and affected parties should also be addressed in the assessment of impacts.

**1. ISSUES RAISED BY INTERESTED AND AFFECTED PARTIES**

List of issues raised by interested and affected parties and response from Eskom Holdings Limited.

	Issue/ Comment	Response
<p><b>1. Lionel Frank and Son Attorneys</b> (for Mr L Louw)</p>	<p>Object the proposed preferred Route A and Route B on the basis that it is not following a current degraded area along the road.</p>	<p>The project is currently in the environmental impact assessment (EIA) phase during which interested and affected parties are invited to register as such. This will enable these parties to make inputs and comment on the proposed alternative powerline routes and substation sites.</p>
	<p>Wants assurance that Mr L Louw will be granted an opportunity</p>	<p>The project is currently in the environmental impact assessment phase during</p>

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	<p>to make further suggestions and inputs for the alternative routes that will have less environmental and economic impact on his farming activities and will only affect the owner of Vyevelei Farm, who seems to be the sole beneficiary of the requested Vyevelei powerline and substation.</p>	<p>which interested and affected parties are invited to register as such. This will enable these parties to make inputs and comment on the proposed alternative powerline routes and substation sites.</p> <p>The two proposed alternative powerline routes over Farm 586 and 586 portion<sup>6</sup> was discussed with Mr L Louw. It was also brought to his attention that the proposed powerline and substation are not for the sole benefit of Vyevelei Farm. The existing electrical supply to the farms in the area is fed from Eskom's Malmesbury Substation. With the current growth in the area the electricity supply will reach its full capacity in the near future. To cater for this Eskom is proposing to build a new 66kV substation in the area which link to the Moorreesburg Substation via a new 66kV powerline.</p>	
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<p><b>2. Tweekuilen Bewarea Conservancy</b> (for Mr Lammie Louw)</p>	<p>Mr Nelius Louw has not received notice concerning the construction of the proposed 66/11kV Moorreesberg-Vyevlei powerline and substation even though the proposed site B for the substation is planned on his farm.</p>	<p>Eskom apologises for not contacting you re: the matter. This is due to the fact that Site B is an alternative and not the preferred site. However, assurance is given that you will be contacted during the entire EIA process.</p>
	<p>Request examples of similar substation and powerline that have been constructed.</p>	<p>Acknowledged</p>
	<p>How much arable land is going to be lost to the farmers due to the proposed project? Existing powerlines over farmland make it already very difficult cultivating the land.</p>	<p>Eskom appoints an independent land evaluator whereby a full price of the land used for the servitude is paid. However, even though Eskom pays for the use of the servitude, the land owner can still farm on the servitude.</p>
	<p>Is it possible for the landowners to suggest alternative routes for the proposed powerlines?</p>	<p>The project is currently in the environmental impact assessment phase during which interested and affected parties are invited to register as such. This will enable these parties to make inputs and comment on the proposed alternative powerline routes and</p>



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		substation sites.	
	<p>From the Conservancy point of view it is worrying that Eskom is exempted from appointing an independent Environmental Assessment Practitioner as required by the NEMA where such powerlines are planned to go over farms that have joined a conservancy.</p>	<p>The EIA for this project is being undertaken by an Eskom in-house EAP, Ms. Nokhuthala D Hlongwana who is registered as an Associate member with the Southern African Institute for Ecologists and Environmental Scientists (SAIEES). Ms. Hlongwana has completed both her honours as well as her under graduate degrees in Environmental and Geographical Science at the <i>University of Cape Town</i> in 2000 and 1999 respectively. She has five years experience in the impact assessment field.</p> <p>Eskom Holdings Limited has been exempted from using an independent Environmental Assessment Practitioner (EAP) by the Department of Environmental Affairs (DEA) based on the condition that the Basic Assessment Report for the proposed project will be peer reviewed by an</p>	

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		independent (EAP) certified by the Interim Certification Board for EAPs.
	Argues that the powerlines are planned at a huge financial cost to Eskom for the pure reason that the dairy farm at Vyevei (the biggest dairy in the Western Cape) requires more electricity when the technology exist for Eskom to use the dairy	The proposed powerline and substation are not for the sole benefit of Vyevei Farm. The existing electrical supply to the farms in the area is fed from Eskom's Malmesbury Substation. With the current growth in the area the electricity supply will reach its full capacity in the near future. To cater for this Eskom is proposing to build a new 66kV substation in the area which link to the Moorreesburg Substation via a new 66kV powerline.
	Argues that he was given four days to contact Ms. Nokhuthala Hlongwana at Eskom Holdings Limited about the proposed project of which on 08 July '10 she was out of the office till further notice.	Interested and Affected Parties (I&APs) letters were sent to the Eskom's mail department on 03 June 2010 and the closing date for an appeal was on 09 July. The public participation (PPP) period for an appeal is 30 days, however, Eskom extended it by five days to cater for delays in the post.
<b>3. Cape Nature</b>	The preferred route alternative lies across land that was historically covered by Swartland Shale	

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	<p>Renosterveld and Swartland Granite Renosterveld. Both of these vegetation types are now considered to be Critically Endangered.</p>	<p>Acknowledged</p>	
<p>However, it appears that the preferred route and preferred site for the new substation have been almost entirely transformed by agricultural activities.</p>			
<p>Both route alternatives cross and pass near several rivers and streams and therefore construction activities must be strictly controlled in these areas so that no part of the rivers, riparian areas or wetlands are impacted by the powerlines.</p>			
<p>Bird diverters must be placed on the lines (no matter which route alternative is selected) but the preferred route alternative is likely to have less impact on avifauna.</p>			

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	<p>The landowners of properties which will be affected must be asked to point out any ecologically sensitive areas or areas of natural vegetation remaining on their land which must be clearly demarcated as no-go areas during construction.</p>		
<p><b>4. Mr Carstens</b></p>	<p>States that the servitude registered for the powerline is 21 meters. Want to know if the existing servitude is in the middle of the servitude or on the edge of the servitude. Suggests a better option is to construct along the tarred road.</p>	<p>The existing powerline occupies one of two servitudes, 28.34 metres wide each and was registered in the seventies. The existing powerline is very near to the centre line of the one servitude. Eskom intends occupying the vacant servitude with the proposed Moorreesburg Vyevelei overhead powerline. If the tar road you are referring to is the N7 then we can not build the powerline right next to the fence because of building restrictions.</p>	
<p><b>5. DEADP (Western Cape)</b></p>	<p>All mitigation measures as described in the EMP must be implemented and that the Dept of Agriculture has no objections</p>		
	<p>Water must not be used to suppress dust</p>		

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	<p>nuisance.</p> <p>The removal of sensitive indigenous vegetation must be limited and powerlines must be located where possible, on already disturbed land.</p> <p>Any cement or concrete mixing must be done on an impervious surface to prevent soil contamination</p>	<p>Acknowledged</p>
<p><b>6. The South African National Roads Agency Limited (SANRAL)</b></p>	<p>Require a way-leave application to be submitted prior to commencement of any work</p>	<p>Acknowledged</p>
<p><b>7. Department of Agriculture</b></p>	<p>Assumes that masts and anchors would be placed:</p> <p>Outside the calculated flood lines of rivers and streams.</p> <p>Outside roads, access roads and offset far enough from gates in order to allow ccess and movement of farming</p>	<p>The powerline will be placed outside the calculated flood lines and streams as this will ensure access to our infrastructure.</p> <p>Roads and other restrictions will be taken into account as we are limited by building restrictions.</p> <p>The farmers are also</p>

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	<p>implements and not only vehicles.</p> <p>Outside contour banks in order not to obstruct storm water runoff within protection works (contour banks) and cause erosion.</p>	<p>consulted during the route selection process which will give them ample opportunity to give their input regarding implements and the placing of poles on contours. The site will only be surveyed and contours drawn up when we have more certainty around which site to occupy.</p>	
	<p>Advises that construction should be communicated with the land users and owners and that construction must rather be conducted in the off-season.</p> <p>Product and personal security must be guaranteed.</p>	<p>The landowners will be informed before and during construction as this is standard practice in Eskom. The time of construction will also be taken into account to ensure minimal impact on farming activities.</p> <p>Access will strictly be for Eskom staff and contractors. Landowners will also be notified when Eskom or it's contractors want to access the property.</p>	
	<p>The two alternative routes have negative impacts on agricultural land use: Aerial spraying of herbicides and pesticides will be</p>	<p>Contamination of the perennial crops due to dust pollution will be avoided as the construction will take place in the off season when there are no crops.</p>	

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	<p>impacted on in both cases. Long straight lines that follow the existing fields rather than the cadastral boundaries may prove to be the best situation. It is therefore advised that the local farmers must comment on the alternatives and that proposals be amended according to land use rather than cadastral lines.</p>	<p>On the point of long straight lines as opposed to following cadastral boundaries, the farmers prefer the powerline route to follow the cadastral boundaries.</p>	
	<p>It is noted that letters objecting to the proposed routes were received from the respective landowners. The size and direct impacts of the infrastructure is not known to the land owners and there is a concern that the public participation process is not followed correctly.</p>	<p>The farmers' objection have been addressed and taken into consideration before the Basic Assessment Report (BAR) was sent out for public review. The size and impact of the infrastructure were further addressed in the BAR and Environmental Management Program. To date no further comments have been received from the landowners.</p>	

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	Contamination of the perennial crops due to dust pollution must be avoided at all times.	Contamination of the perennial crops due to dust pollution will be avoided as the construction will take place in the off season when there are no crops.
	The route along the existing power line might however sterilize a larger area due to the cumulative effect of parallel lines placed in buffer distances and according to regulations from each other.	The route is not final yet. The crossing of cultivated fields is inevitable as the powerline starts in Moorreesburg further north. Where the powerline runs parallel with the existing powerline we are merely occupying one of our two powerline servitudes.
<b>8. Department of Water Affairs (DWA)</b>	Request a letter from the Local Municipality confirming the availability of the capacity to accommodate the solid waste to be obtained prior to construction of the proposed development.	Acknowledged
	All procedures to minimise potential impacts as stipulated in	



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	<p>the EMP to be adhered to at all times.</p>		
	<p>A qualified ECO or EAP to be appointed to oversee the development during the construction and operation phases of the development as indicated in the BAR.</p>		
	<p>Any water use activity that is not Schedule 1 water use must be registered and authorised by DWA.</p>		
	<p>If earth cables cross rivers or streams, authorisation must be obtained from DWA before such activity may commence.</p>	<p>Even though the powerline will cross the two rivers mentioned in the Basic Assessment Report, river banks will not be disturbed as these are overhead powerlines. Building restrictions on river banks will be adhered to.</p>	
	<p>Authorisation for any development within 500m from any wetland must be obtained from DWA before it takes place.</p>		

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	<p>Chemical toilets utilised during construction to be properly located such that they do not pose risk of water resource pollution and its contents must be disposed of at an authorised facility.</p>	<p>Acknowledged</p>	
<p>Fuel and oil storage area to be hardened and banded in order to minimise pollution of the environment.</p>			
<p>No surface, ground or storm water may be polluted as a result of any activities.</p>			
<p>Solid waste must be managed in accordance with the requirements of the relevant legislation.</p>			
<p>All requirements of the NWA, 1998 (Act No. 36 of 1998) must be adhered to at all times.</p>			

Response from the practitioner to the issues raised by the interested and affected parties (A full response must be given in the Comments and Response Report that must be attached to this report):

**Refer to the above table.**

**2. IMPACTS THAT MAY RESULT FROM THE PLANNING AND DESIGN PHASE**

List the potential site alternative related impacts (as appropriate) that are likely to occur as a result of the planning and design phase, including impacts relating to the choice of site alternatives.

**Alternative S1 (preferred alternative)**

**Direct impacts:**

- Mostly physical impacts on the wheat farms can result when the route direction is not planned correctly and when all aspects are not taken into account.

**Indirect impacts:**

- Erosion
- Visual
- Stopping future development in the area due to lack of electricity.

**Cumulative impacts:**

- Loss of farm land due to erosion
- Loss of income due to erosion
- Loss of jobs due to loss of arable land

**Alternative S2**

**Direct impacts:**

- Mostly physical impacts on the wheat farms can result when the route direction is not planned correctly and when all environmental, social and economic aspects are not taken into account.
- Bird collision and/or electrocution
- Disturbance of the river banks
- Water pollution

**Indirect impacts:**

- Erosion
- Visual
- Stopping future development in the area due to lack of electricity.
- Bird fatality and/or injury
- Disturbance on the marine species.

**Cumulative impacts:**

- Loss of farm land due to erosion
- Loss of income due to erosion
- Loss of jobs due to loss of arable land
- Effect on the wildlife population
- Effect on the marine species population

**Alternative S3: N/A**

**Direct impacts:**  
N/A

**Indirect impacts:**  
N/A

**Cumulative impacts:**  
N/A

**No-go alternative (compulsory)**

**Direct impacts:**

- No increase in electricity capacity for the current users;
- No surety in terms of decreased load shedding; and
- No future development will be allowed as there will be no spare electrical capacity.

**Indirect impacts:**

- Eskom will not be able to efficiently supply electricity to both Swartland Municipality and the farming community of the Moorreesburg-Vyevlei area.
- Decrease in employment security (existing employees) as no new developments will be approved without available electricity; and
- Economic impacts on existing farming and businesses and infrastructure should load shedding continue – this in turn affects the economy of the immediate area.

**Cumulative impacts:**

- High demand for efficient electricity supply.
- Significant impact on the local economy as no further development of the area can take place without electricity capacity, this directly impacts on employment and operations of existing farms, businesses and households.

Indicate mitigation measures that may eliminate or reduce the potential impacts listed above:

<b>Alternative S1</b>	<b>Alternative S2</b>	<b>Alternative S3</b>
<ul style="list-style-type: none"> <li>• Eskom will ensure that relevant environmental management specifications as per EMP are incorporated in the Contract documentation with the construction contractor.</li> <li>• The Environmental Management Programme will be utilized by the contractor.</li> </ul>	<ul style="list-style-type: none"> <li>• Eskom will ensure that relevant environmental management specifications as per EMP are incorporated in the Contract documentation with the construction contractor.</li> <li>• The Environmental Management Programme will be utilized by the contractor.</li> </ul>	

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<ul style="list-style-type: none"> <li>• During construction, audits will take place with an Environmental Control Officer to ensure that the plan is being implemented.</li> <li>• Construction of a low profile substation to mitigate visual impact.</li> <li>• Further, embedded mitigation for the visual impact will be provided by the rural context of the site and relatively wheat farms.</li> </ul>	<ul style="list-style-type: none"> <li>• During construction, audits will take place with an Environmental Control Officer to ensure that the plan is being implemented.</li> <li>• Construction of a low profile substation to mitigate visual impact.</li> <li>• Further, embedded mitigation for the visual impact will be provided by the rural context of the site and relatively wheat farms.</li> <li>• Putting up of bird diverters and/or flappers</li> <li>• No structures to be constructed within 32m from the river bank.</li> </ul>	
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List the potential activity/technology alternative related impacts (as appropriate) that are likely to occur as a result of the planning and design phase:

**Alternative A1 (preferred alternative)**

<p><b>Direct impacts:</b> N/A</p> <p><b>Indirect impacts:</b> N/A</p> <p><b>Cumulative impacts:</b> N/A</p>
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**Alternative A2**

<p><b>Direct impacts:</b> N/A</p> <p><b>Indirect impacts:</b> N/A</p> <p><b>Cumulative impacts:</b> N/A</p>
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**Alternative A3**

<p><b>Direct impacts:</b> N/A</p> <p><b>Indirect impacts:</b> N/A</p>
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<p><b>Cumulative impacts:</b> N/A</p>
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**No-go alternative (compulsory)**

<p><b>Direct impacts:</b> N/A</p> <p><b>Indirect impacts:</b> N/A</p> <p><b>Cumulative impacts:</b> N/A</p>
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Indicate mitigation measures that may eliminate or reduce the potential impacts listed above:

Alternative A1:	Alternative A2:	Alternative A3:
N/A	N/A	N/A

### 3. IMPACTS THAT MAY RESULT FROM THE CONSTRUCTION PHASE

List the potential site alternative related impacts (as appropriate) that are likely to occur as a result of the construction phase:

**Alternative S1 (preferred alternative)**

<p><b>Direct impacts:</b></p> <ul style="list-style-type: none"> <li>• Dust nuisance from the excavated and stockpiled materials</li> <li>• Dust pollution caused by the construction vehicles on the access road</li> <li>• Soil pollution through leaking or spilling of hydraulic fuels</li> <li>• Noise nuisance from construction equipment</li> <li>• Soil erosion</li> <li>• Loss of vegetation (wheat)</li> <li>• Waste (poor house-keeping and ablution)</li> </ul> <p><b>Indirect impacts:</b></p> <ul style="list-style-type: none"> <li>• Loss of wheat</li> <li>• Loss of farm land due to the creation of access roads</li> <li>• Loss of fertile soil and occurrence of denuded areas</li> <li>• Soil pollution through leaking or spilling hydraulic fuels</li> <li>• Land pollution due to poor house-keeping and lack of ablution facilities</li> <li>• Visual</li> </ul> <p><b>Cumulative impacts:</b></p> <ul style="list-style-type: none"> <li>• Loss of farm land</li> <li>• Loss of income</li> <li>• Loss of jobs</li> <li>• Irritation of the land owners due to loss of arable land</li> </ul>
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<p><b>Alternative S2</b></p> <p><b>Direct impacts:</b></p>
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- Disturbance of the river banks
- Water pollution
- Dust nuisance from the excavated and stockpiled materials
- Dust pollution caused by the construction vehicles on the access road
- Leaking or spilling hydraulic fuels
- Noise nuisance from construction equipment
- Soil erosion
- Loss of vegetation
- Waste (poor house-keeping and ablution)
- Visual

**Indirect impacts:**

- Disturbance on the marine species
- Loss of wheat
- Loss of farm land due to the creation of access roads
- Loss of fertile soil and occurrence of denuded areas
- Soil pollution cause by leaking or spilling hydraulic fuels
- Land pollution due to poor house-keeping and lack of ablution facilities

**Cumulative impacts:**

- Effect on the marine species population
- Loss of farm land
- Loss of income
- Loss of jobs
- Irritation by land owners

**Alternative S3: N/A**

**Direct impacts:**

N/A

**Indirect impacts:**

N/A

**Cumulative impacts:**

N/A

**No-go alternative (compulsory)**

- No increase in electricity capacity for the current users;
- No surety in terms of decreased load shedding; and
- No future development will be allowed as there will be no spare electrical capacity.

**Indirect impacts:**

- Eskom will not be able to efficiently supply electricity to both Swartland Municipality and the

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<p>farming community of the Moorreesburg-Vyevlei area.</p> <ul style="list-style-type: none"> <li>• Decrease in employment security (existing employees) as no new developments will be approved without available electricity; and</li> <li>• Economic impacts on existing farming and businesses and infrastructure should load shedding continue – this in turn affects the economy of the immediate area.</li> </ul> <p><b>Cumulative impacts:</b></p> <ul style="list-style-type: none"> <li>• High demand for efficient electricity supply.</li> <li>• Significant impact on the local economy as no further development of the area can take place without electricity capacity, this directly impacts on employment and operations of existing farms, businesses and households.</li> </ul>
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Indicate mitigation measures that may eliminate or reduce the potential impacts listed above:

Alternative S1	Alternative S2	Alternative S3
<ul style="list-style-type: none"> <li>• Implement dust suppression measures e.g. regular watering or anchovy nets, etc. can be used as a method of stabilising dust control on the site.</li> <li>• Where possible, access roads to be constructed on the servitude or where there is minimal loss of wheat.</li> <li>• Fuels, oils, hydraulic fluids, cement etc. must be stored in properly contained areas so as to minimize accidental spillage.</li> <li>• Accommodation must be made for oil leaks that may occur from vehicle sumps. This can be</li> </ul>	<ul style="list-style-type: none"> <li>• Implement dust suppression measures e.g. regular watering or anchovy nets, etc. can be used as a method of stabilising dust control on the site.</li> <li>• Where possible, access roads to be constructed on the servitude or where there is minimal loss of wheat.</li> <li>• Fuels, oils, hydraulic fluids, cement etc. must be stored in properly contained areas so as to minimize accidental spillage.</li> <li>• Accommodation must be made for oil leaks that may occur from vehicle sumps. This can be</li> </ul>	N/A



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<p>achieved by providing a sump or drip tray for each vehicle that is later removed from site to be disposed of at a licensed hazardous disposal site.</p> <ul style="list-style-type: none"> <li>• The contractor should be in possession of a mobile oil spill kit and/or a wheely bin should be available on site until end of construction.</li> <li>• Concrete mixing to be carried out on mortar boards.</li> <li>• Limit working hours of noisy equipment to daylight hours.</li> <li>• Ensure that employees and staff conduct themselves in an acceptable manner while on site, both during work hours and after hours.</li> <li>• Minimize the extent of removal of vegetation (wheat).</li> <li>• Construction workers should stay within the construction area (servitude) to minimize the impact on the vegetation of the area.</li> </ul>	<p>achieved by providing a sump or drip tray for each vehicle that is later removed from site to be disposed of at a licensed hazardous disposal site.</p> <ul style="list-style-type: none"> <li>• The contractor should be in possession of a mobile oil spill kit and/or a wheely bin should be available on site until end of construction.</li> <li>• Concrete mixing to be carried out out on mortar boards.</li> <li>• Limit working hours of noisy equipment to daylight hours.</li> <li>• Ensure that employees and staff conduct themselves in an acceptable manner while on site, both during work hours and after hours.</li> <li>• Minimize the extent of removal of vegetation (wheat).</li> <li>• Construction workers should stay within the construction area to minimize the impact on the vegetation of the area.</li> </ul>	
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<ul style="list-style-type: none"> <li>• The Contractor shall ensure that all waste is deposited in the waste bins for removal by the Contractor, or if Eskom is responsible for construction, remove it to an approved Municipal waste site.</li> <li>• Temporary ablution facilities (i.e. Chemical toilets) must be made available and used.</li> <li>• Construction of a low profile substation to mitigate visual impact.</li> <li>• Further, embedded mitigation for the visual impact will be provided by the rural context of the site and relatively wheat farms.</li> <li>• Erosion protection measures i.e. geotextiles, rocks, topsoil mixtures as per specifications are to be implemented when and where necessary.</li> <li>• All relevant conditions stipulated by DWA.</li> </ul>	<ul style="list-style-type: none"> <li>• The Contractor shall ensure that all waste is deposited in the waste bins for removal by the Contractor, or if Eskom is responsible for construction, remove it to an approved Municipal waste site.</li> <li>• Temporary ablution facilities (i.e. Chemical toilets) must be made available and used.</li> <li>• Construction of a low profile substation to mitigate visual impact.</li> <li>• Further, embedded mitigation for the visual impact will be provided by the rural context of the site and relatively wheat farms.</li> <li>• Erosion protection measures i.e. geotextiles, rocks, topsoil mixtures as per specifications are to be implemented when and where necessary.</li> <li>• No structures to be constructed within 32m from the river bank.</li> </ul>	
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**Please refer to Appendix G for a comprehensive Environmental Management Plan (EMP) that addresses all potential impacts and proposes mitigation measures for each.**

List the potential activity/technology alternative related impacts (as appropriate) that are likely to occur as a result of the construction phase:

**Alternative A1 (preferred alternative):** N/A

<p><b>Direct impacts:</b> N/A</p> <p><b>Indirect impacts:</b> N/A</p> <p><b>Cumulative impacts:</b> N/A</p>
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**Alternative A2:** N/A

<p><b>Direct impacts:</b> N/A</p> <p><b>Indirect impacts:</b> N/A</p> <p><b>Cumulative impacts:</b> N/A</p>
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**Alternative A3:** N/A

<p><b>Direct impacts:</b> N/A</p> <p><b>Indirect impacts:</b> N/A</p> <p><b>Cumulative impacts:</b> N/A</p>
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**No-go alternative (compulsory)**

<p><b>Direct impacts:</b> None</p> <p><b>Indirect impacts:</b> None</p> <p><b>Cumulative impacts:</b> None</p>
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Indicate mitigation measures that may eliminate or reduce the potential impacts listed above:

<b>Alternative A1:</b>	<b>Alternative A2:</b>	<b>Alternative A3:</b>
N/A	N/A	N/A

#### 4. IMPACTS THAT MAY RESULT FROM THE OPERATIONAL PHASE

List the potential site alternative related impacts (as appropriate) that are likely to occur as a result of the operational phase:

**Alternative S1 (preferred alternative)**

<p><b>Direct impacts:</b></p> <ul style="list-style-type: none"> <li>• Soil erosion through driving of powerline maintenance vehicles</li> <li>• Electrocution and collision of birds on the powerline</li> <li>• Veld fires due to explosion of transformers</li> <li>• Visual impact</li> </ul> <p><b>Indirect impacts:</b></p>
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- Loss of fertile ground
- Bird injuries and/ or fatalities
- Loss of vegetation (wheat)

**Cumulative impacts:**

- Loss of farm land
- Loss of income
- Loss of jobs due to loss of arable land

**Alternative S2**

**Direct impacts:**

- Bird collision and/or electrocution
- Disturbance of the river banks
- Soil erosion through driving of powerline maintenance vehicles
- Electrocution and collision of birds due on the powerline
- Water pollution due to maintenance vehicles crossing the streams

**Indirect impacts:**

- Bird fatality and/or injury
- Disturbance on the marine species
- Loss of fertile ground
- Bird injuries and/or fatalities

**Cumulative impacts:**

- Effect on the wildlife population
- Effect on the marine species population
- Loss of farm land
- Loss of income
- Loss of jobs

**Alternative S3: N/A**

**Direct impacts:**

N/A

**Indirect impacts:**

N/A

**Cumulative impacts:**

N/A

**No-go alternative (compulsory)**

**Direct impacts:**

- None

**Indirect impacts:**

- Eskom will not be able to efficiently supply electricity to either Swartland Municipality or the farming community of the Moorreesburg-Vyevlei area.

**Cumulative impacts:**

- High demand for efficient electricity supply.

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- If the Eskom infrastructure of the area is not strengthened, development in the area will cease.

Indicate mitigation measures that may eliminate or reduce the potential impacts listed above:

<b>Alternative S1</b>	<b>Alternative S2</b>	<b>Alternative S3</b>
<ul style="list-style-type: none"> <li>• Driving speed of vehicles on the wheat farms to be kept at 40km/ hr or below.</li> <li>• Existing tracks to be used as much as possible and mostly, one way in and one way out.</li> <li>• No unnecessary creation of new access tracks.</li> <li>• Bird flappers and bird diverters to be placed when and where necessary.</li> <li>• The substation must be equipped with fire fighting equipment and emergency numbers to be visibly displayed at the substation.</li> </ul>	<ul style="list-style-type: none"> <li>• Driving speed of vehicles on the wheat farms to be kept at 40km/ hr or below.</li> <li>• Existing tracks to be used as much as possible and mostly, one way in and one way out.</li> <li>• No unnecessary creation of new access tracks.</li> <li>• Bird flappers and bird diverters to be placed when and where necessary.</li> <li>• The substation must be equipped with fire fighting equipment and emergency numbers to be visibly displayed at the substation.</li> <li>• Putting up of bird diverters and/or flappers</li> <li>• No structures to be constructed within 32m from the river bank.</li> </ul>	<p>N/A</p>

List the potential activity/technology alternative related impacts (as appropriate) that are likely to occur as a result of the operational phase:

**Alternative A1 (preferred alternative):** N/A

**Direct impacts:**

N/A

**Indirect impacts:**

N/A

**Cumulative impacts:**

N/A

**Alternative A2: N/A**

**Direct impacts:**

N/A

**Indirect impacts:**

N/A

**Cumulative impacts:**

N/A

**Alternative A3: N/A**

**Direct impacts:**

N/A

**Indirect impacts:**

N/A

**Cumulative impacts:**

N/A

**No-go alternative (compulsory)**

**Direct impacts:**

None

**Indirect impacts:**

N/A

**Cumulative impacts:**

N/A

Indicate mitigation measures that may eliminate or reduce the potential impacts listed above:

<b>Alternative A1</b>	<b>Alternative A2</b>	<b>Alternative A3</b>
N/A	N/A	N/A

**5. IMPACTS THAT MAY RESULT FROM THE DECOMMISSIONING AND CLOSURE PHASE**

List the potential site alternative related impacts (as appropriate) that are likely to occur as a result of the decommissioning or closure phase:

**Alternative S1 (preferred alternative)**

**Direct impacts:**

- Noise
- Soil erosion
- Soil pollution
- Waste (poor house-keeping and ablution)

**Indirect impacts:**

- Irritation by land owners due to soil erosion on their land.
- Loss of wheat
- Loss of fertile soil and occurrence of denuded areas
- Land pollution due to poor house-keeping and lack of ablution facilities

**Cumulative impacts:**

- Loss of farm land
- Loss of income

- Loss of jobs
- Irritation by land owners due to loss of arable land

**Alternative S2**

**Direct impacts:**

- Water pollution due to maintenance vehicles crossing the streams
- Noise
- Soil erosion
- Soil pollution
- Waste (poor house-keeping and ablution)

**Indirect impacts:**

- Disturbance on the marine species
- Irritation by land owners due to soil erosion on their land
- Loss of wheat
- Loss of fertile soil and occurrence of denuded areas
- Land pollution due to poor house-keeping and lack of ablution facilities

**Cumulative impacts:**

- Effect on the marine species population
- Loss of farm land
- Loss of income
- Loss of jobs
- Irritation by land owners due to loss of arable land

**Alternative S3: N/A**

**Direct impacts:**

N/A

**Indirect impacts:**

N/A

**Cumulative impacts:**

N/A

**No-go alternative (compulsory)**

**Direct impacts:**

- None

**Indirect impacts:**

- Eskom will not be able to efficiently supply electricity to both Swartland Municipality and the farming community of the Moorreesburg-Vyevlei area.

**Cumulative impacts:**

- High demand for efficient electricity supply.
- If the Eskom infrastructure of the area is not strengthened, development in the area will cease.

Indicate mitigation measures that may eliminate or reduce the potential impacts listed above:

**Alternative S1**

**Alternative S2**

**Alternative S3**

BASIC ASSESSMENT REPORT

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<ul style="list-style-type: none"> <li>• Driving speed of vehicles on the wheat farms to be kept at 40km/ hr or below.</li> <li>• Existing tracks to be used as much as possible and mostly, one way in and one way out.</li> <li>• No unnecessary creation of new access tracks.</li> <li>• Oil spill kits and/or oil spill emergency wheely bin must be present on site until decommission is complete.</li> <li>• Limit working hours of noisy equipment to daylight hours.</li> <li>• Ensure that employees and staff conduct themselves in an acceptable manner while on site, both during work hours and after hours.</li> <li>• An EMP for the decommission Phase will have to be compiled.</li> <li>• The Contractor shall ensure that all waste is deposited in the waste bins for removal by the Contractor, or if Eskom is responsible for</li> </ul>	<ul style="list-style-type: none"> <li>• Driving speed of vehicles on the wheat farms to be kept at 40km/ hr or below.</li> <li>• Existing tracks to be used as much as possible and mostly, one way in and one way out.</li> <li>• No unnecessary creation of new access tracks.</li> <li>• Oil spill kits and/or oil spill emergency wheely bin must be present on site until decommission is complete.</li> <li>• Limit working hours of noisy equipment to daylight hours.</li> <li>• Ensure that employees and staff conduct themselves in an acceptable manner while on site, both during work hours and after hours.</li> <li>• An EMP for the decommission Phase will have to be compiled.</li> <li>• The Contractor shall ensure that all waste is deposited in the waste bins for removal by the Contractor, or if Eskom is responsible for</li> </ul>	<p>N/A</p>
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BASIC ASSESSMENT REPORT

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<p>construction, remove it to an approved Municipal waste site.</p> <ul style="list-style-type: none"> <li>• Temporary ablution facilities (i.e. Chemical toilets) must be made available and used.</li> </ul>	<p>construction, remove it to an approved Municipal waste site.</p> <ul style="list-style-type: none"> <li>• Temporary ablution facilities (i.e. Chemical toilets) must be made available and used.</li> <li>• No driving on the streams.</li> </ul>	
--	--	--

List the potential activity/technology alternative related impacts (as appropriate) that are likely to occur as a result of the decommissioning and closure phase:

**Alternative A1 (preferred alternative):** N/A

<p><b>Direct impacts:</b> N/A</p> <p><b>Indirect impacts:</b> N/A</p> <p><b>Cumulative impacts:</b> N/A</p>
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**Alternative A2:** N/A

<p><b>Direct impacts:</b> N/A</p> <p><b>Indirect impacts:</b> N/A</p> <p><b>Cumulative impacts:</b> N/A</p>
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**Alternative A3:** N/A

<p><b>Direct impacts:</b> N/A</p> <p><b>Indirect impacts:</b> N/A</p> <p><b>Cumulative impacts:</b> N/A</p>
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**No-go alternative (compulsory)**

<p><b>Direct impacts:</b> N/A</p> <p><b>Indirect impacts:</b> N/A</p> <p><b>Cumulative impacts:</b> N/A</p>
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Indicate mitigation measures that may eliminate or reduce the potential impacts listed above:

<b>Alternative A1</b>	<b>Alternative A2</b>	<b>Alternative A3</b>
N/A	N/A	N/A

**6. PROPOSED MANAGEMENT OF IMPACTS AND MITIGATION**

The construction phase of the proposed powerline and substation will be monitored continuously by the Environmental Control Officer (ECO). The ECO will ensure that the EMP is implemented and any environmental degradation or damage is being rehabilitated. The ECO will audit compliance with the EMP and Environmental Authorisation on a monthly basis (or at the frequency suggested by the approving authority)

Please refer to the EMP in Appendix H for further information on the management and implementation of mitigation measures.

Indicate how identified impacts and mitigation will be monitored and/or audited.

<b>Alternative S1</b>	<b>Alternative S2</b>	<b>Alternative S3</b>
<ul style="list-style-type: none"> <li>• The approved Environmental Management Programme will be utilized by the contractor.</li> <li>• During construction, operation and decommission phases, audits will take place by an Environmental Control Officer (ECO) to ensure that the programme is being implemented.</li> <li>• Should the powerline and/ or substation cease its operation, Eskom Holdings Limited will comply with all relevant legislation requirements administered by the relevant competent authority at that time.</li> </ul>	<ul style="list-style-type: none"> <li>• The approved Environmental Management Programme will be utilized by the contractor.</li> <li>• During construction, operation and decommission phases, audits will take place by an Environmental Control Officer (ECO) to ensure that the programme is being implemented.</li> <li>• Should the powerline and/or substation cease its operation, Eskom Holdings Limited will comply with all relevant legislation requirements administered by the relevant competent authority at that time.</li> </ul>	<p>N/A</p>

**Alternative A1**

**Alternative A2**

**Alternative A3**

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**7. ENVIRONMENTAL IMPACT STATEMENT**

Taking the assessment of potential impacts into account, please provide an environmental impact statement that sums up the impact that the proposed activity and its alternatives may have on the environment after the management and mitigation of impacts have been taken into account with specific reference to types of impact, duration of impacts, likelihood of potential impacts actually occurring and the significance of impacts.

**Alternative S1 (preferred alternative)**

It must be noted that Eskom provides an essential service of electricity and due to economic and electricity pressures, it needs to be able to fulfil its legal obligations in the most time and cost effective manner. The study area is on agricultural land that has been vastly transformed with minimal, local, short - term and low significance impacts. The general impacts for both alternatives are noise, soil, ground pollution, with the exception of Route B that could trigger bird collision and/or electrocution and disturbance on the river banks, etc during the planning, construction, operation and decommission phases. Thus, the introduction of the new powerline and substation in the study area will not de-value the surrounding environment, instead it will balance the socio-economic and environment scale. The proposed project is aimed to improve the Eskom power infrastructure network in the Moorreesburg-Vyevlei area for the expansion of farming activities.

**Alternative S2**

It must be noted that Eskom provides an essential service of electricity and due to economic and electricity pressures, it needs to be able to fulfil its legal obligations in the most time and cost effective manner. The study area is on agricultural land that has been vastly transformed with minimal, local, short - term and low significance impacts. Thus, the introduction of the new powerline and substation in the study area will not de-value the surrounding environment, instead it will balance the socio-economic and environment scale. The proposed project is aimed to improve the Eskom power infrastructure network in the Moorreesburg-Vyevlei area for the expansion of farming activities.

**Alternative S3**

N/A

**Alternative A1 (preferred alternative)**

N/A

**Alternative A2**

N/A

**Alternative A3**

N/A

**No-go alternative (compulsory)**

If the Eskom infrastructure of the area is not strengthened, development in the area will cease and high demand for efficient electricity supply will soar. Further, black-outs will occur due to high pressure on the electric network, which in turn will pose a safety risk. Thus the no-go alternative will significantly (highly negative) impact the local farming community and future development of the area.



**Assessment of Impacts:**

For various project actions or alternatives the scale of the associated impacts will be assessed according to the significance of the impacts to an affected party or the environment. Significance will be determined according to a number of criteria such as “intensity”, “extent”, “duration” and “probability” where a combination of the first three indicate the consequence of the impact and the probability assesses the likelihood of the impact occurring. The evaluation of impacts will also include whether the impact is positive or negative; and direct or indirect. Additional criteria to be considered, which could escalate the significance rating if deemed justified, includes the following:

- Permanence/irreversibility of impacts;
- Potentially substantial cumulative effects; and
- High level of risk or uncertainty, with potentially substantial negative consequences.

**General Impact Assessment Criteria:**

**Duration:** A prediction of the lifetime of the impact: i.e. be short-term (0 to 10 months- design & planning); medium term (0 to 18 years construction); long term (11 to decommissioning); or considered permanent.

**Probability of occurrence:** A description of the likelihood of the impact actually occurring i.e.: improbable (low likelihood), probable (distinct possibility), highly probable (most likely) or definite (impact would occur regardless of prevention measures).

**Significance:** An assessment of the potential effects in terms of importance using all the above criteria. The importance is described as:

1. **Low:** an impact for which no mitigation is necessary;
2. **Medium:** an impact that requires effective mitigation;
3. **High:** an impact, which, if not mitigated, could stop the project from proceeding.

**Degree of confidence in predictions:** The degree of confidence in the predictions, expressed as definite or not.

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**Alternative S1 (preferred alternative)**

<u>TYPE OF IMPACT</u>	<u>DURATION</u>	<u>LIKELIHOOD</u>	<u>SIGNIFICANCE</u>
<p><b><u>Design and Planning Phase:</u></b></p> <ul style="list-style-type: none"> <li>• Physical impacts on the wheat farms</li> </ul>	Design and Planning Phase	Low Possibility	<b>Low</b>
<p><b><u>Construction Phase:</u></b></p> <ul style="list-style-type: none"> <li>• Soil pollution</li> <li>• Soil erosion</li> <li>• Water pollution</li> <li>• Dust pollution</li> <li>• Noise pollution</li> <li>• Loss of vegetation (wheat)</li> <li>• Visual impacts</li> </ul>	Construction Phase	Low Possibility Low Possibility Low Possibility Definite Definite Low Possibility Definite	<b>LOW – MEDIUM</b>
<p><b><u>Operational Phase</u></b></p> <ul style="list-style-type: none"> <li>• Soil erosion through driving of powerline maintenance vehicles</li> <li>• Veld fires</li> <li>• Visual</li> </ul>	Operational Phase	Low Possibility  Low- Medium Possibility  Low Possibility  Definite	<b>LOW – MEDIUM</b>
<p><b><u>Decommissioning Phase</u></b></p> <ul style="list-style-type: none"> <li>• Soil pollution</li> <li>• Soil erosion</li> <li>• Noise pollution</li> <li>• Water pollution</li> </ul>	Decommissioning Phase	Low Possibility Low Possibility Definite Low possibility	<b>Low</b>

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**Alternative S2**

<u><b>TYPE OF IMPACT</b></u>	<u><b>DURATION</b></u>	<u><b>LIKELIHOOD</b></u>	<u><b>SIGNIFICANCE</b></u>
<p><b><u>Design and Planning Phase:</u></b></p> <ul style="list-style-type: none"> <li>Physical impacts on the wheat farms</li> </ul>	Design and Planning Phase	Low Possibility	Low
<p><b><u>Construction Phase:</u></b></p> <ul style="list-style-type: none"> <li>Soil pollution</li> <li>Soil erosion</li> <li>Water pollution</li> <li>Dust pollution</li> <li>Noise pollution</li> <li>Loss of vegetation (wheat)</li> <li>Disturbance of the river banks</li> </ul>	Construction Phase	Low Possibility  Definite Definite Low Possibility Low possibility	Low – MEDIUM
<p><b><u>Operational Phase</u></b></p> <ul style="list-style-type: none"> <li>Soil erosion through driving of powerline maintenance vehicles</li> <li>Electrocution and collision of birds due on the powerline</li> <li>Disturbance of the river banks</li> <li>Veld fires</li> </ul>	Operational Phase	Low Possibility  Low- Medium Possibility Low Possibility Low possibility	Low – MEDIUM
<p><b><u>Decommissioning Phase</u></b></p> <ul style="list-style-type: none"> <li>Soil pollution</li> <li>Soil erosion</li> <li>Noise pollution</li> <li>Water pollution</li> </ul>	Decommissioning Phase	Low Possibility Low Possibility Definite Low possibility	MEDIUM-HIGH

**No-go alternative (compulsory)**

<u><b>TYPE OF IMPACT</b></u>	<u><b>DURATION</b></u>	<u><b>LIKELIHOOD</b></u>	<u><b>SIGNIFICANCE</b></u>
<p><b><u>Design and Planning Phase</u></b></p>			High

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<ul style="list-style-type: none"> <li>• Eskom will not be able to efficiently supply electricity to the farming community of the Moorreesburg-Vyevlei area.</li> <li>• High demand for efficient electricity supply.</li> <li>• If the Eskom infrastructure of the area is not strengthened, development in the area will cease.</li> </ul>	Permanent	<p style="text-align: center;"><i>Definite</i></p> <p style="text-align: center;"><i>Definite</i></p> <p style="text-align: center;"><i>Definite</i></p>	<p style="text-align: center;"><b>High</b></p> <p style="text-align: center;"><b>High</b></p>
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**8. RECOMMENDATION OF PRACTITIONER**

Is the information contained in this report and the documentation attached hereto sufficient to make a decision in respect of the activity applied for (in the view of the environmental assessment practitioner)?

YES	NO
YES	NO

Is an EMP attached?

If "NO", indicate the aspects that should be assessed further as part of a Scoping and EIA process before a decision can be made (list the aspects that require further assessment):

N/A

If "YES", please list any recommended conditions, including mitigation measures that should be considered for inclusion in any authorisation that may be granted by the competent authority in respect of the application:

- **An Environmental Management Programme (EMP) has to be developed for the construction, operational and decommission phases to limit impacts resulting from construction activities. A decommission phase EMP will have to be compiled before it takes place and Eskom Holdings Limited will have to comply with all the regulations in place at the time.**
- **All the conditions in this BAR report as well as the EMP must be strictly adhered to.**
- **An Environmental Control Officer will have to be appointed before construction to ensure that the plan is implemented.**

**SECTION F: APPENDIXES**

The following appendixes must be attached as appropriate:

Appendix A: Locality and Site plans

Appendix B: Photographs

Appendix C: Facility illustration(s)

Appendix D: Public Participation Information

Appendix E: Specialist reports

Appendix F: Comments and responses table

Appendix G: List of land owners

Appendix H: Environmental Management Programme (EMP)

Appendix I: Route co-ordinates

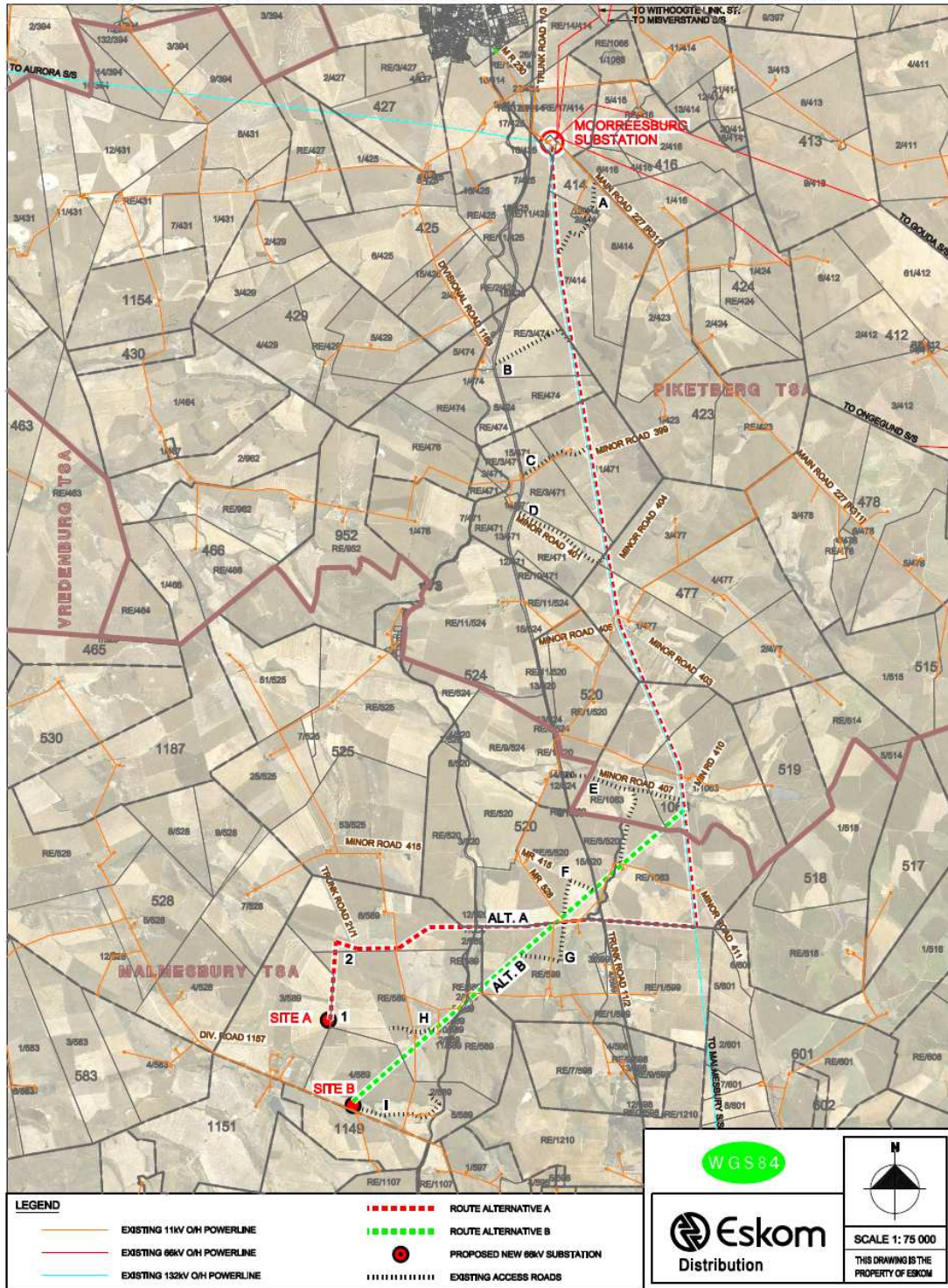
Appendix J: Peer reviewer's report and checklist

Appendix K: Other information

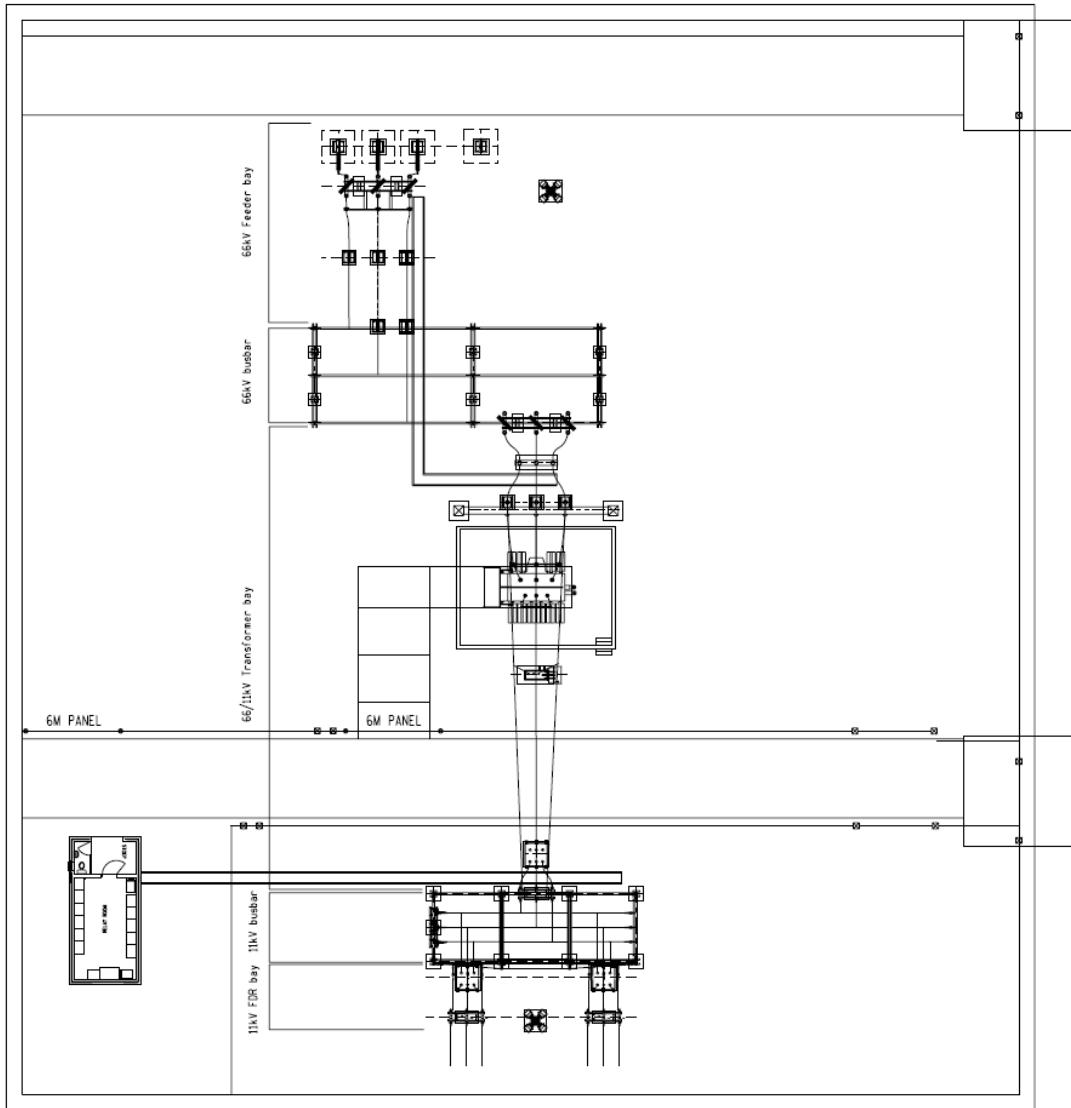


## Appendix A: Locality and Site Plan

PROPOSED MOORREESBURG - VYEVLEI 66KV O/H POWERLINE  
& VYEVLEI 66 / 11KV SUBSTATION PROJECT ID No's. 3480C & 3480A



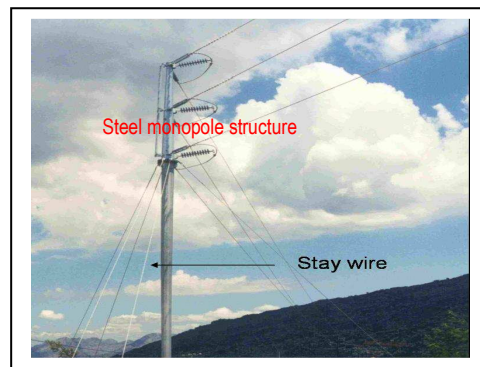
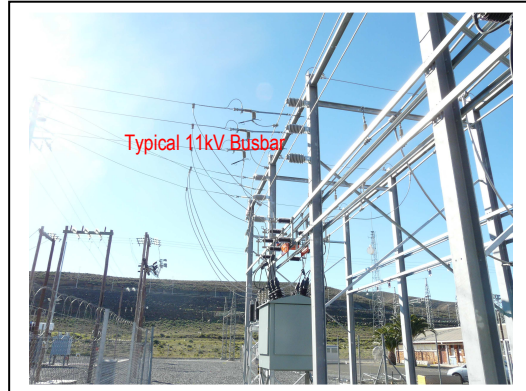
TYPICAL SITE PLAN



## Appendix B: Photographs

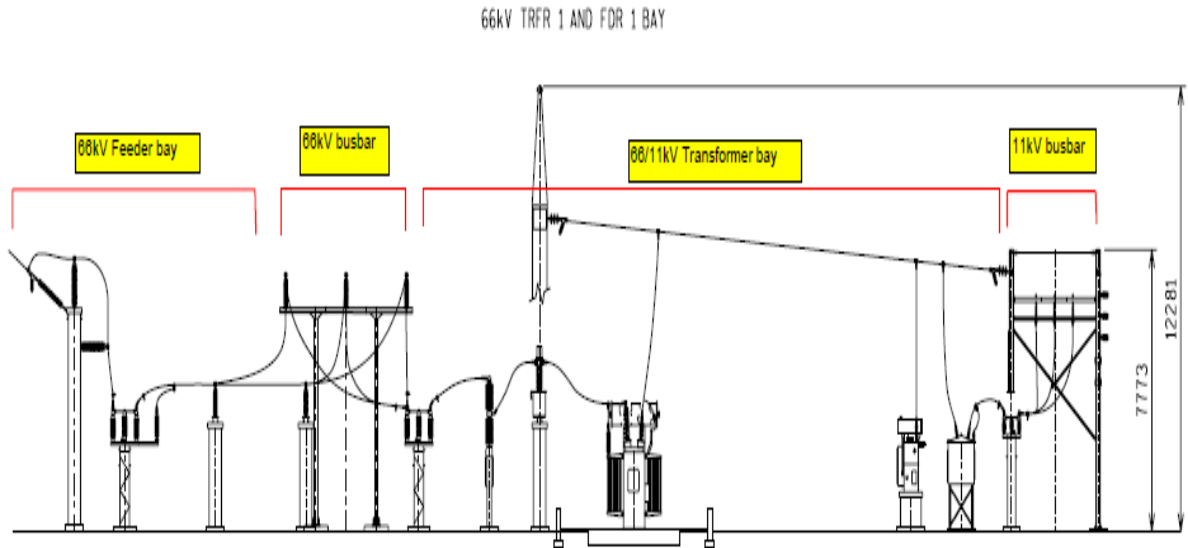


## Appendix C: Facility Illustrations

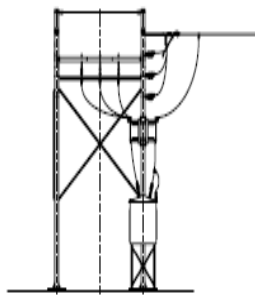


## Appendix C: Facility Illustrations –cont.

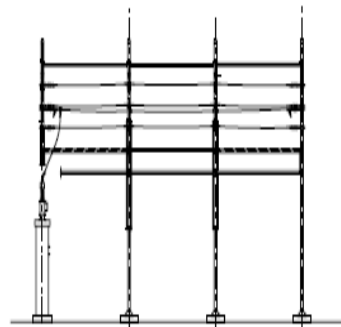
### Section View of the substation:



11kV FEEDER BAY



11kV BUSBAR WITH VTs



**Appendix D: Public Participation Information  
(Adverts [English and Afrikaans], Site Notice, I&AP register,  
Comments from I&APs)**

(See related documents attach hereto)

**NOTICE OF ENVIRONMENTAL IMPACT ASSESSMENT: PROPOSED CONSTRUCTION OF  
THE NEW 66/11kV MOORREESBURG-VYVLEI POWERLINE AND SUBSTATION –  
SWARTLAND MUNICIPALITY, CAPE TOWN**

Notice is given in terms of the Environmental Impact Assessment Regulations promulgated in terms of section 24(5) of the National Environmental Management Act, 1998 (Act no. 107 of 1998), as amended, of intent to carry out the following activity:

Malmesbury Farmers (F) 1 peaked in July 2008 with 2.361MVA. The calculated feeder growth is 3.1% per annum. Malmesbury F1 is experiencing voltage problems with voltages on some parts of the feeder being below the 95% limit. Several new power applications have been received on Malmesbury F1. However, there is no more spare capacity on Malmesbury F1 to accommodate these loads due to voltage constraints.

Eskom therefore, proposes to acquire a servitude and build a 66kV powerline (approximately 30km) from Moorreesburg substation towards Vyevelei substation; create a 66kV feeder bay at Moorreesburg substation to cater for the Vyevelei substation; build a Vyevelei 1x10MVA 66/11kV step-down substation consisting of 1x66kV feeder bay and 2x11kV feeder bays (Vyevelei F1 and F2). It further proposes to leave spatial requirements for a second 10MVA 66/11kV transformer bay and 1x11kV feeder bay. Eskom has been granted an exemption from using an independent Environmental consultant by the Department of Environmental Affairs (DEA), reference number: 12/12/20/1825.

**The Draft Basic Assessment Report as well as the Environmental Management Programme will be available for your perusal at the Moorreesburg Public Library, Church Street, Moorreesburg and Malmesbury Public Library, Voortrekker Road, Malmesbury on 16 July 2010.**

.If you wish to be included on the database of interested and affected parties, raise concerns, or make suggestions about the proposed development please forward your name and/or comments no later than **23 August 2010** to:

Ms Nokhuthala D Hlongwana

Eskom Distribution

Land Development

Tel: (021) 980 3105

P.O. Box 222

Fax: (086) 666 7972

Brackenfell, 7561

E-mail: [nokhuthala.hlongwana@eskom.co.za](mailto:nokhuthala.hlongwana@eskom.co.za)

**KENNISGEWING VAN OMGEWINGSIMPAK STUDIE: VOORGESTELDE KONSTRUKSIE VAN 'N NUWE 66kV/11kV MOORREESBURG-VYEVLEI KRAGLYN EN SUBSTASIE –SWARTLAND MUNISIPALITEIT, KAAPSTAD**

"n Kennisgewing is uitgereik ten opsigte van die Omgewings waarnemings Impak studie Regulasies in terme van seksie 24(5) van die Nasionale Omgewingsbestuur Wet, 1998 (Wet nr. 107 van 1998), soos aangepas, by voorneme om die volgende aktiwiteit uit te voer:

Malmesbury Boere 1 het in Julie 2008 gespits met 2.361 MVA. Die berekende voerder groei is 3.1% jaarliks. Malmesbury Boere 1 ondervind spannings probleme met spannings op gedeeltes van die voeders onder die 95% limiet. Verskeie nuwe krag aansoeke is ontvang op Malmesbury Boere 1. Daar is nie meer spaar kapasiteit op Malmesbury Boere 1 om hierdie vraag te akkomdeer nie ten opsigte van die spannings te korte.

Daarom stel Eskom voor om 'n servituut te verkry en die bou van 'n 66kV kraglyn (ongeveer 30 km) vanaf Moorreesburg substasie na Vyevelei substasie; 'n 66kV voerder bank te skep by Moorreesburg substasie om te voldoen aan die Vyevelei substasie; die bou van Vyevelei 1 x 10 MVA 66/11kV verlagings substasie wat 1 x 66kV voerder bank en 2 x 11kV voerder banke (Vyevelei Boere 1 and Boere 2) bevat. Daar word verder voorgestel om ruimtelik voorwaardes te los vir 'n tweede 10MVA 66/11kV transformator bank en 1 x 11kV voerder bank. Eskom het vrywaring ontvang vir die gebruik van 'n onafhanklike omgewings konsultant van die Departement van Omgewingsake en Toerisme(DEAT), verwysingsnommer: 12/12/20/1825.

'n Tydelike Basiese Waarnemings Verslag sowel as die Omgewings bestuursprogram sal beskikbaar gestel word vir u noukeurige deurlusing by die Moorreesburg Publieke Biblioteek, Church Straat, Moorreesburg en Malmesbury Publieke Biblioteek, Voortrekker Weg, Malmesbury op 16 Julie 2010.

Indien u op die databasis vir geïntereseerde en geaffekteerde partye ingesluit wil word, bekommernisse te lig en voorstelle te maak in verband met die voorgestelde ontwikkeling stuur asseblief jou naam en kommentaar nie later as 23 Augustus 2010 na:

Mej. Nokhuthala D Hlongwana  
Eskom Distribusie  
Grond Ontwikkeling  
(021) 980 3105  
Posbus 222  
Brackenfell, 7561  
Faks: 086 666 7972  
E-pos: [nokhuthala.hlangwana@eskom.co.za](mailto:nokhuthala.hlangwana@eskom.co.za)



**AFFECTED PROPERTY OWNERS  
MOORREESBURG-VYEVLEI 66kV POWERLINE**

## BASIC ASSESSMENT REPORT

NO.	REGISTERED OWNER AND PROPERTY	ADDRESS	CONTACT PERSON	TELEPHONE	Pref Language	Comments
1.	Hanekomshoop Trust ZWARTFONTEIN 414/17					
2.	Johannes Hendrik Hanekom ZWARTFONTEIN 414					
3.	J W A BESTER FAMILIETRUST BOTTELFONTEIN 425/11					
4.	WECAR TRUST ZWARTFONTEIN 414/8	Posbus 229 Moorreesburg 7310	Willem Carstens	022 433 2441 082 564 5268		
5.	GECAR TRUST ZWARTFONTEIN 414/7	Posbus Moorreesburg	Gerhard Carstens	022 344 2440 082 564 5267		
6.	G P L DE WAAL TRUST BOSCHJES VALLEY 474,474/3	Philip referred me to 082 329 3335 who switched off the phone, 03 June '10 @ 10h51.	Philip De Waal	082 783 0011 082 329 3335		Philip referred me to 082 329 3335 who switched off the phone, 03 June '10 @ 10h51.
7.	JAN POSSIE TRUST VOGELSTRUISFONTEIN 471/11	Posbus 331 Moorreesburg 7310	Jandre Bester	082 784 7686		

## BASIC ASSESSMENT REPORT

NO.	REGISTERED OWNER AND PROPERTY	ADDRESS	CONTACT PERSON	TELEPHONE	Pref Language	Comments
8.	<b>C J DE WAAL TRUST</b> <b>VOGELSTRUISFONTEIN</b> <b>471/3</b>	Posbus 38 Moorreesburg 7310	Philip De Waal	082 783 0011		
9.	<b>LOCHNER EKSTEEN TRUST</b> <b>ZOUTFONTEIN</b> <b>477/3</b>	Posbus 380 Moorreesburg 7310	Oelof Eksteen	083 659 3466	A	<b>Make app before surveying line for ntz</b>
10.	<b>PROVINCIAL GOVERNMENT-WESTERN CAPE</b> <b>ZOUTFONTEIN</b> <b>477/1</b>	Department of Agriculture Western Cape Pbag X1 Elsenburg 7606	Duma Cumbi ( Elsenburg )	082 809 9946 021 808 5172	E	dumag@elsenburg.com
11.	<b>P M STEYN FAMILY TRUST</b> <b>1063</b>	Silwermyrn Posbus 201 Malmesbury 7299	PM Steyn	083 320 3950 022 487 1199	A/E	Psteyn@wcaccess.co.za
12.	<b>SOUTFONTEIN TRUST</b>  <b>1063/1</b>	PO Box 113 Malmesbury 7299	Dr Stephen S Steyn	022 482 2880 084 857 2267		
13.	<b>GILBERT SMUTS FAMILIE TRUST</b>  <b>KRUYWAGENS KRAAL</b> <b>520/5</b>	Posbus 111 Malmesbury 7299	Gilbert Smuts	022 482 2861 083 306 6721	A/E	Gilbert@cornergate.com

## BASIC ASSESSMENT REPORT

NO.	REGISTERED OWNER AND PROPERTY	ADDRESS	CONTACT PERSON	TELEPHONE	Pref Language	Comments
14.	<b>DIEPKLOOF TRUST</b>  <b>DIEPKLOOF 589</b>	Posbus 88 Malmesbury 7299	Lammie Louw	082 579 0015	A	
15.	<b>JMA LOUW FAMILIE TRUST</b>  <b>589/6</b>	Posbus 557 Malmesbury 7299	Janneman Louw	022 482 2876 082 770 7780	A	
16.	<b>MôRESTER BELEGGINGS TRUST</b>  <b>589/3</b>	Posbus 130 Malmesbury 7299	Neels Neethling	082 453 6662	A	Saamstaan@wcaccess.co.za
17.	South African National Roads Agency, Western Region	Parc du Cap Building 5 Cnr. Mispel Street & Willie Van Schoor Avenue Bellville 7530	Mrs Colene Runkel	Tel: 021 957 4613 <a href="mailto:runkelc@nra.co.za">runkelc@nra.co.za</a>	(021) 946 1630	
18.	Swartland Municipality	Swartland Municipal offices; Office no: 4 Cnr kerk & Rainier street Malmesbury	Alwyn Burger	swartlandmun@swartland.org.za 022 4879400 076 4809870	022 4879440	
19.	Department of Water Affairs	17 Strand Street Bellville 7530	Busiswa Bele	Tel: (021) 950 7237		

## BASIC ASSESSMENT REPORT

NO.	REGISTERED OWNER AND PROPERTY	ADDRESS	CONTACT PERSON	TELEPHONE	Pref Language	Comments
20.	Heritage Western Cape	Heritage Resource Council, Protea assurance building; Green market square; Cape Town; 8000.	Nicholas Wiltshire	021 483 9685 <a href="mailto:nwiltshire@pgwc.gov.za">nwiltshire@pgwc.gov.za</a>	021 483 9842	
21.	Cape Nature Conservation	CapeNature Scientific Services; Jonkerhoek Nature Reserve; Stellenbosch; 7599	Alana Duffel-Canham	Tel: 021 866 8000/8029 Cell: 082 727 2691 Aduffell-canham@capenature.co.za	(027) 219 1922	
22.	DEA&DP	Registry Office 1st Floor Utilitas Building 1 Dorp Street Cape Town	Deputy Director: Paul Hardcastle	Tel: 021 483 5687 <a href="mailto:phardcas@pgwc.gov.za">phardcas@pgwc.gov.za</a>		
23.	Department of Agriculture	42 long Street; Moorreesburg;  7310	Mr. J Smith (Moorreesberg Office)	Tel: 022 433 2330 Cell: 082 907 1138 <a href="mailto:smithj@elsenburg.com">smithj@elsenburg.com</a>		
24.	DEA	Fedsure building 315 Pretorius street  Pretoria; 0001	Mr. Mogole Mphahlele	Tel: 012 310 3004 <a href="mailto:MLMphahlele@environment.gov.za">MLMphahlele@environment.gov.za</a>		

BASIC ASSESSMENT REPORT

NO.	REGISTERED OWNER AND PROPERTY	ADDRESS	CONTACT PERSON	TELEPHONE	Pref Language	Comments
25.	Environmental Resource Management Department: Environmental & Heritage Management Services					
26.	Greater Cape Town Civic Alliance					



**BASIC ASSESSMENT REPORT**

<b>NO.</b>	<b>REGISTERED OWNER AND PROPERTY</b>	<b>ADDRESS</b>	<b>CONTACT PERSON</b>	<b>TELEPHONE</b>	<b>Pref Language</b>	<b>Comments</b>
27.	HB Engelbrecht & Seuns CC  414/14	Posbus 229 Moorreesburg 7310	Pieter Gideon Engelbrecht			
28.	Hanekomshoop  1066	POSBUS 215 Moorreesburg 7310	Johannes Hendrik Hanekom	0828727327 c 0224332406 h		
29.	Louis Henze Carstens  416/5	Swartfontein Moorreesburg 7310	Louis Henze Carstens	0224332430 h		
30.	Pool familie Trust  416/1,6	Christiaan Carstens Straat 14 Moorreesburg 7310	Albertus Johannes Pool	0224331433 h 0824935416 c		
31.	Korhaansrug Trust  423/2	POSBUS 54 Moorreesburg 7310	Johannes Nicolaas Kotze	0224332904 h 0828691993 c		
32.	Jannie Kitshof Boerdery Pty Ltd  423/1	Posbus 162 Moorreesburg 7310	Hermanus Lambertus Kitshoff	0224333130 h 0823252614 c		
33.	Leeukuil Trust  423	Posbus 62 Moorreesburg 7310	DJA Kotze	0224332486 h 0832704736 c		



**BASIC ASSESSMENT REPORT**

<b>NO.</b>	<b>REGISTERED OWNER AND PROPERTY</b>	<b>ADDRESS</b>	<b>CONTACT PERSON</b>	<b>TELEPHONE</b>	<b>Pref Language</b>	<b>Comments</b>
34.	Kanonberg Trust 478/3	Posbus 149 Moorreesburg 7310	Dirk Burger Koch	0224332474 h 0834618266 c		
35.	Pien Bester Familie Trust 477/4	Posbus 27 Moorreesburg 7310	DW Bester	0224331511 h		
36.	Doman Trust 477/2	Posbus 259 Malmesbury 7299	Hendrik Schalk Doman	0218732645 h 0834401321 c		
37.	PM Steyn Familie Trust 519 ( Cons 1063 )	Silwermy Posbus 201 Malmesbury 7299	PM Steyn	083 320 3950 022 487 1199	A/E	Psteyn@waccess.co.za
38.	Eben Schellink Trust 518,518/1	Posbus 85 Malmesbury 7299	E Terblanche	083 6597640		
39.	Danie Rust Familie Trust 601/5	Posbus 266 Malmesbury 7299	Daniel Rust	0224822890 h 0824535237 c		
40.	Equistock Prop 147 Pty Ltd 601/6	Po box 107 Malmesbury 7299	CARLOS NICOLAU DE NOBREGA,			

**BASIC ASSESSMENT REPORT**

<b>NO.</b>	<b>REGISTERED OWNER AND PROPERTY</b>	<b>ADDRESS</b>	<b>CONTACT PERSON</b>	<b>TELEPHONE</b>	<b>Pref Language</b>	<b>Comments</b>
41.	Celsum 1066 PTY LTD 601	POSBUS 182 Malmesbury 7299	WALTERS, LAMBRETUS LOUW	0224824594 h 0832655459 c		voorspoed@wcaccess.co.za
42.	Hugo Louw Trust 601/2	Posbus 279 Malmesbury 7299		0224875801 h 0763103304 c		
43.	Telheim Landgoed Pty Ltd 1210	Posbus 130 Malmesbury 7299	Neels Neethling	082 453 6662	A	Saamstaan@wcaccess.co.za
44.	Nelius Louw Pty Ltd 589/5	Posbus 61 Malmesbury 7299	Cornelius Albertus Louw			
45.	Nelius Louw 589/4	Posbus 130 Malmesbury 7299	Neels Neethling	082 453 6662	A	Saamstaan@wcaccess.co.za
46.	Liebenberg Familie Trust 1149	12 Palomino Straat Malmesbury 7300	JWS Liebenberg	022 4824211 h 0836583148 c		
47.	MJ Slabber Plase CC 583/4	Posbus 215 Paarl 7620	Martin Johan Slabber			

**BASIC ASSESSMENT REPORT**

<b>NO.</b>	<b>REGISTERED OWNER AND PROPERTY</b>	<b>ADDRESS</b>	<b>CONTACT PERSON</b>	<b>TELEPHONE</b>	<b>Pref Language</b>	<b>Comments</b>
48.	Morester Beleggings Trust 528/4	Posbus 130 Malmesbury 7299	Neels Neethling	082 453 6662	A	Saamstaan@wcaccess.co.za
49.	Sandkloof Trust 528/7	Posbus 102 Malmesbury 7299	SLABBER,J H W	0224822870 h 0829234796 c		JSLABBER@MWEB.CO.ZA
50.	Droevlei Trust 525/53	Posbus 200 Malmesbury 7299	Erich Rust	0224822878 h 0824521591 c		
51.	Fanie Basson & Seuns Pty Ltd 525	Posbus 107 Malmesbury 7299	Stephanus Gerhardus Basson			
52.	Cruywagenskraal Trust 524/3 ( Cons 524/9 )	Posbus 142 Malmesbury 7299	D.G. Rust	0224822889 h 0824515345		
53.	Locheim Pty Ltd 520/11	Posbus 162 Moorreesburg 7310	Hendrik Willem de Waal			
54.	Locheim Pty Ltd 520/1	Posbus 38 Moorreesburg 7310	HENDRIK WILLEM DE WAAL	0224332556 h 0827830011 c		

**BASIC ASSESSMENT REPORT**

<b>NO.</b>	<b>REGISTERED OWNER AND PROPERTY</b>	<b>ADDRESS</b>	<b>CONTACT PERSON</b>	<b>TELEPHONE</b>	<b>Pref Language</b>	<b>Comments</b>
55.	Izak Cornelius Rust 524/11	Posbus 256 Moorreesburg 7310	Izak Cornelius Rust	0224332491 h 0832313547 c		
56.	CJ de waal Trust 471,471/3	Posbus 38 Moorreesburg 7310	Philip De Waal	0224332555 h 0827830011 c		
57.	Kanolkop Trust 476	Knolkop Ruststasie 7311	JP Truter	0224332550 h 0827842645 c		
58.	Barend Frederik Andries Visser 429	Posbus 104 Moorreesburg 7310	Barend Frederik Andries Visser	0224332477 h		
59.	Hermanus Kitshoff Boerdery Pty Ltd 429/5	Posbus 162 Moorreesburg 7310	Hermanus Lambertus Kitshoff	0224333130 h 0823252614 c		
60.	474/5	Posbus 38 Moorreesburg 7310	Hendrik Willem de Waal	0224332555 h 0825525456 c		
61.	JWA Bester Familie Trust 425,425/2	Posbus 202 Moorreesburg 7310	Jacobus Willem Adriaan Brster	0224332419 h 0824938383 c		

BASIC ASSESSMENT REPORT

NO.	REGISTERED OWNER AND PROPERTY	ADDRESS	CONTACT PERSON	TELEPHONE	Pref Language	Comments
62.	Siltha Inv Holdings Pty Ltd 970	Company Secretary Private Bag X2 Rhine Road 8050	Malcom Gordon Prew			

**Comments from I&APs:**

## **Appendix E: Specialists reports**

(Transformed land and therefore no specialist study was requested)

## **Appendix F: Comments and Responses table**

(See list attached hereto)



## **Appendix G: List of Landowners**

(See list attached hereto)

BASIC ASSESSMENT REPORT

NO.	REGISTERED OWNER AND PROPERTY	ADDRESS	CONTACT PERSON	TELEPHONE	Pref Language	Comments
63.	HB Engelbrecht & Seuns CC 414/14	Posbus 229 Moorreesburg 7310	Pieter Gideon Engelbrecht			
64.	Hanekomshoop 1066	POSBUS 215 Moorreesburg 7310	Johannes Hendrik Hanekom	0828727327 c 0224332406 h		
65.	Louis Henze Carstens 416/5	Swartfontein Moorreesburg 7310	Louis Henze Carstens	0224332430 h		
66.	Pool familie Trust 416/1,6	Christiaan Carstens Straat 14 Moorreesburg 7310	Albertus Johannes Pool	0224331433 h 0824935416 c		
67.	Korhaansrug Trust 423/2	POSBUS 54 Moorreesburg 7310	Johannes Nicolaas Kotze	0224332904 h 0828691993 c		
68.	Jannie Kitshof Boerdery Pty Ltd 423/1	Posbus 162 Moorreesburg 7310	Hermanus Lambertus Kitshoff	0224333130 h 0823252614 c		
69.	Leeukuil Trust 423	Posbus 62 Moorreesburg 7310	DJA Kotze	0224332486 h 0832704736 c		

**BASIC ASSESSMENT REPORT**

<b>NO.</b>	<b>REGISTERED OWNER AND PROPERTY</b>	<b>ADDRESS</b>	<b>CONTACT PERSON</b>	<b>TELEPHONE</b>	<b>Pref Language</b>	<b>Comments</b>
70.	<b>Kanonberg Trust 478/3</b>	<b>Posbus 149 Moorreesburg 7310</b>	<b>Dirk Burger Koch</b>	<b>0224332474 h 0834618266 c</b>		
71.	<b>Pien Bester Familie Trust 477/4</b>	<b>Posbus 27 Moorreesburg 7310</b>	<b>DW Bester</b>	<b>0224331511 h</b>		
72.	<b>Doman Trust 477/2</b>	<b>Posbus 259 Malmesbury 7299</b>	<b>Hendrik Schalk Doman</b>	<b>0218732645 h 0834401321 c</b>		
73.	<b>PM Steyn Familie Trust 519 ( Cons 1063 )</b>	<b>Silwermy Posbus 201 Malmesbury 7299</b>	<b>PM Steyn</b>	<b>083 320 3950 022 487 1199</b>	<b>A/E</b>	<b>Psteyn@waccess.co.za</b>
74.	<b>Eben Schellink Trust 518,518/1</b>	<b>Posbus 85 Malmesbury 7299</b>	<b>E Terblanche</b>	<b>083 6597640</b>		
75.	<b>Danie Rust Familie Trust 601/5</b>	<b>Posbus 266 Malmesbury 7299</b>	<b>Daniel Rust</b>	<b>0224822890 h 0824535237 c</b>		
76.	<b>Equistock Prop 147 Pty Ltd 601/6</b>	<b>Po box 107 Malmesbury 7299</b>	<b>CARLOS NICOLAU DE NOBREGA,</b>			

**BASIC ASSESSMENT REPORT**

<b>NO.</b>	<b>REGISTERED OWNER AND PROPERTY</b>	<b>ADDRESS</b>	<b>CONTACT PERSON</b>	<b>TELEPHONE</b>	<b>Pref Language</b>	<b>Comments</b>
77.	<b>Celsum 1066 PTY LTD 601</b>	<b>POSBUS 182 Malmesbury 7299</b>	<b>WALTERS, LAMBRETUS LOUW</b>	<b>0224824594 h 0832655459 c</b>		<b>voorspoed@waccess.co.za</b>
78.	<b>Hugo Louw Trust 601/2</b>	<b>Posbus 279 Malmesbury 7299</b>		<b>0224875801 h 0763103304 c</b>		
79.	<b>Telheim Landgoed Pty Ltd 1210</b>	<b>Posbus 130 Malmesbury 7299</b>	<b>Neels Neethling</b>	<b>082 453 6662</b>	<b>A</b>	<b>Saamstaan@waccess.co.za</b>
80.	<b>Nelius Louw Pty Ltd 589/5</b>	<b>Posbus 61 Malmesbury 7299</b>	<b>Cornelius Albertus Louw</b>			
81.	<b>Nelius Louw 589/4</b>	<b>Posbus 130 Malmesbury 7299</b>	<b>Neels Neethling</b>	<b>082 453 6662</b>	<b>A</b>	<b>Saamstaan@waccess.co.za</b>
82.	<b>Liebenberg Familie Trust 1149</b>	<b>12 Palomino Straat Malmesbury 7300</b>	<b>JWS Liebenberg</b>	<b>022 4824211 h 0836583148 c</b>		
83.	<b>MJ Slabber Plase CC 583/4</b>	<b>Posbus 215 Paarl 7620</b>	<b>Martin Johan Slabber</b>			

BASIC ASSESSMENT REPORT

NO.	REGISTERED OWNER AND PROPERTY	ADDRESS	CONTACT PERSON	TELEPHONE	Pref Language	Comments
84.	Morester Beleggings Trust 528/4	Posbus 130 Malmesbury 7299	Neels Neethling	082 453 6662	A	Saamstaan@waccess.co.za
85.	Sandkloof Trust 528/7	Posbus 102 Malmesbury 7299	SLABBER,J H W	0224822870 h 0829234796 c		JSLABBER@MWEB.CO.ZA
86.	Droevlei Trust 525/53	Posbus 200 Malmesbury 7299	Erich Rust	0224822878 h 0824521591 c		
87.	Fanie Basson & Seuns Pty Ltd 525	Posbus 107 Malmesbury 7299	Stephanus Gerhardus Basson			
88.	Cruywagenskraal Trust 524/3 ( Cons 524/9 )	Posbus 142 Malmesbury 7299	D.G. Rust	0224822889 h 0824515345		
89.	Locheim Pty Ltd 520/11	Posbus 162 Moorreesburg 7310	Hendrik Willem de Waal			
90.	Locheim Pty Ltd 520/1	Posbus 38 Moorreesburg 7310	HENDRIK WILLEM DE WAAL	0224332556 h 0827830011 c		

**BASIC ASSESSMENT REPORT**

<b>NO.</b>	<b>REGISTERED OWNER AND PROPERTY</b>	<b>ADDRESS</b>	<b>CONTACT PERSON</b>	<b>TELEPHONE</b>	<b>Pref Language</b>	<b>Comments</b>
91.	Izak Cornelius Rust 524/11	Posbus 256 Moorreesburg 7310	Izak Cornelius Rust	0224332491 h 0832313547 c		
92.	CJ de waal Trust 471,471/3	Posbus 38 Moorreesburg 7310	Philip De Waal	0224332555 h 0827830011 c		
93.	Kanolkop Trust 476	Knolkop Ruststasie 7311	JP Truter	0224332550 h 0827842645 c		
94.	Barend Frederik Andries Visser 429	Posbus 104 Moorreesburg 7310	Barend Frederik Andries Visser	0224332477 h		
95.	Hermanus Kitshoff Boerdery Pty Ltd 429/5	Posbus 162 Moorreesburg 7310	Hermanus Lambertus Kitshoff	0224333130 h 0823252614 c		
96.	474/5	Posbus 38 Moorreesburg 7310	Hendrik Willem de Waal	0224332555 h 0825525456 c		
97.	JWA Bester Familie Trust 425,425/2	Posbus 202 Moorreesburg 7310	Jacobus Willem Adriaan Brster	0224332419 h 0824938383 c		

BASIC ASSESSMENT REPORT

NO.	REGISTERED OWNER AND PROPERTY	ADDRESS	CONTACT PERSON	TELEPHONE	Pref Language	Comments
98.	Siltha Inv Holdings Pty Ltd  970	Company Secretary Private Bag X2 Rhine Road 8050	Malcom Gordon Prew			

## **Appendix H: EMP**

**(See list attached hereto)**



## Appendix I: Route Co-ordinates

(See list attached hereto)

### Alternative 1 (powerline and substation):

<b>Terminal</b>	33°10'51.9879"	18°41'07.8632"
1	33°11'00.0893"	18°41'08.4238"
2	33°11'08.1907"	18°41'08.9845"
3	33°11'16.2921"	18°41'09.5451"
4	33°11'24.3935"	18°41'10.1058"
6	33°11'40.5963"	18°41'11.2273"
7	33°11'48.6977"	18°41'11.7880"
5	33°11'32.4949"	18°41'10.6665"
8	33°11'56.7991"	18°41'12.3488"
9	33°12'04.9005"	18°41'12.9097"
10	33°12'13.0018"	18°41'13.4705"
<b>Bend 1</b>	33°12'19.3652"	18°41'13.9111"
11	33°12'27.3662"	18°41'15.5236"
12	33°12'35.3673"	18°41'17.1362"
13	33°12'43.3683"	18°41'18.7488"
14	33°12'51.3693"	18°41'20.3615"
15	33°12'59.3703"	18°41'21.9743"
16	33°13'07.3714"	18°41'23.5872"
17	33°13'15.3724"	18°41'25.2002"
18	33°13'23.3734"	18°41'26.8132"
19	33°13'31.3743"	18°41'28.4263"
20	33°13'39.3753"	18°41'30.0395"
21	33°13'47.3763"	18°41'31.6528"
22	33°13'55.3772"	18°41'33.2661"
23	33°14'03.3782"	18°41'34.8796"
24	33°14'11.3791"	18°41'36.4931"
25	33°14'19.3801"	18°41'38.1067"
26	33°14'27.3810"	18°41'39.7204"
27	33°14'35.3819"	18°41'41.3341"
28	33°14'43.3828"	18°41'42.9480"
29	33°14'51.3837"	18°41'44.5619"
30	33°14'59.3846"	18°41'46.1759"
31	33°15'07.3855"	18°41'47.7900"
32	33°15'15.3864"	18°41'49.4041"
33	33°15'23.3873"	18°41'51.0183"
34	33°15'31.3881"	18°41'52.6327"
35	33°15'39.3890"	18°41'54.2471"
36	33°15'47.3898"	18°41'55.8615"
37	33°15'55.3907"	18°41'57.4761"
38	33°16'03.3915"	18°41'59.0907"
39	33°16'11.3923"	18°42'00.7055"
40	33°16'19.3931"	18°42'02.3203"
41	33°16'27.3939"	18°42'03.9351"
42	33°16'35.3947"	18°42'05.5501"
43	33°16'43.3955"	18°42'07.1651"
<b>Bend 2</b>	33°16'44.4332"	18°42'07.3741"
44	33°16'51.9382"	18°42'11.0487"

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45	33°16'59.4432"	18°42'14.7234"
46	33°17'06.9482"	18°42'18.3983"
47	33°17'14.4531"	18°42'22.0734"
48	33°17'21.9580"	18°42'25.7487"
49	33°17'29.4629"	18°42'29.4241"
50	33°17'36.9678"	18°42'33.0998"
51	33°17'44.4726"	18°42'36.7756"
52	33°17'51.9774"	18°42'40.4515"
53	33°17'59.4821"	18°42'44.1277"
54	33°18'06.9868"	18°42'47.8040"
55	33°18'14.4915"	18°42'51.4804"
56	33°18'21.9962"	18°42'55.1571"
<b>Bend 3</b>	33°18'29.1454"	18°42'58.6601"
57	33°18'37.2179"	18°42'59.6466"
58	33°18'45.2905"	18°43'00.6332"
59	33°18'53.3631"	18°43'01.6199"
60	33°19'01.4357"	18°43'02.6065"
61	33°19'09.5082"	18°43'03.5933"
62	33°19'17.5808"	18°43'04.5801"
63	33°19'25.6533"	18°43'05.5669"
64	33°19'33.7259"	18°43'06.5538"
65	33°19'41.7984"	18°43'07.5407"
66	33°19'49.8710"	18°43'08.5277"
67	33°19'57.9435"	18°43'09.5147"
68	33°20'06.0160"	18°43'10.5018"
69	33°20'14.0886"	18°43'11.4889"
70	33°20'22.1611"	18°43'12.4761"
<b>Bend 4</b>	33°20'27.0250"	18°43'13.0708"
71	33°20'26.4046"	18°43'03.4316"
72	33°20'25.7840"	18°42'53.7926"
73	33°20'25.1632"	18°42'44.1535"
74	33°20'24.5421"	18°42'34.5145"
75	33°20'23.9209"	18°42'24.8756"
76	33°20'23.2995"	18°42'15.2366"
77	33°20'22.6778"	18°42'05.5978"
78	33°20'22.0560"	18°41'55.9589"
79	33°20'21.4339"	18°41'46.3201"
<b>Bend 5</b>	33°20'20.9866"	18°41'39.3942"
80	33°20'21.8326"	18°41'29.7796"
81	33°20'22.6784"	18°41'20.1650"
82	33°20'23.5240"	18°41'10.5504"
83	33°20'24.3694"	18°41'00.9356"
84	33°20'25.2145"	18°40'51.3209"
<b>Bend 6</b>	33°20'25.9091"	18°40'43.4160"
85	33°20'25.9839"	18°40'33.7491"
86	33°20'26.0584"	18°40'24.0821"
87	33°20'26.1327"	18°40'14.4152"
88	33°20'26.2068"	18°40'04.7482"
89	33°20'26.2807"	18°39'55.0813"
90	33°20'26.3544"	18°39'45.4143"
91	33°20'26.4279"	18°39'35.7473"
92	33°20'26.5011"	18°39'26.0804"
<b>Bend 7</b>	33°20'26.5474"	18°39'19.9660"
93	33°20'31.0444"	18°39'11.9187"

## BASIC ASSESSMENT REPORT

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94	33°20'35.5412"	18°39'03.8712"
95	33°20'40.0379"	18°38'55.8235"
<b>Bend 8</b>	33°20'41.6951"	18°38'52.8576"
96	33°20'41.8123"	18°38'43.1908"
97	33°20'41.9293"	18°38'33.5240"
98	33°20'42.0461"	18°38'23.8571"
<b>Bend 9</b>	33°20'42.1406"	18°38'16.0217"
99	33°20'39.5476"	18°38'06.8607"
<b>Bend 10</b>	33°20'36.9875"	18°37'57.8165"
100	33°20'45.0787"	18°37'57.0796"
101	33°20'53.1700"	18°37'56.3427"
102	33°21'01.2612"	18°37'55.6057"
103	33°21'09.3525"	18°37'54.8687"
104	33°21'17.4437"	18°37'54.1316"
105	33°21'25.5349"	18°37'53.3945"
106	33°21'33.6262"	18°37'52.6574"
<b>Bend 11</b>	33°21'33.8232"	18°37'52.6394"
Preferred Substation	33°21'34.3940"	18°37'50.8927"

### Alternative 2 (powerline and substation):

<b>Alternative bend 1</b>	33°19'01.3348"	33°43'02.5942"
1	33°19'06.7172"	18°42'55.3613"
2	33°19'12.0996"	18°42'48.1281"
3	33°19'17.4819"	18°42'40.8947"
4	33°19'22.8640"	18°42'33.6611"
5	33°19'28.2460"	18°42'26.4272"
6	33°19'33.6279"	18°42'19.1931"
7	33°19'39.0096"	18°42'11.9587"
8	33°19'44.3913"	18°42'04.7241"
9	33°19'49.7728"	18°41'57.4892"
10	33°19'55.1542"	18°41'50.2541"
11	33°20'00.5355"	18°41'43.0187"
12	33°20'05.9167"	18°41'35.7831"
13	33°20'11.2977"	18°41'28.5472"
14	33°20'16.6787"	18°41'21.3111"
15	33°20'22.0595"	18°41'14.0747"
16	33°20'27.4402"	18°41'06.8381"
17	33°20'32.8207"	18°40'59.6013"
18	33°20'38.2012"	18°40'52.3642"
19	33°20'43.5815"	18°40'45.1268"
20	33°20'48.9617"	18°40'37.8892"
21	33°20'54.3418"	18°40'30.6514"
22	33°20'59.7218"	18°40'23.4133"
23	33°21'05.1016"	18°40'16.1750"
24	33°21'10.4813"	18°40'08.9364"
25	33°21'15.8610"	18°40'01.6976"
26	33°21'21.2404"	18°39'54.4585"
27	33°21'26.6198"	18°39'47.2192"
28	33°21'31.9991"	18°39'39.9796"
29	33°21'37.3782"	18°39'32.7398"

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	30	33°21'42.7572"	18°39'25.4997"
	31	33°21'48.1361"	18°39'18.2594"
	32	33°21'53.5148"	18°39'11.0188"
	33	33°21'58.8935"	18°39'03.7780"
	34	33°22'04.2720"	18°38'56.5370"
	35	33°22'09.6504"	18°38'49.2957"
	36	33°22'15.0287"	18°38'42.0541"
	37	33°22'20.4069"	18°38'34.8123"
	38	33°22'25.7849"	18°38'27.5703"
	39	33°22'31.1629"	18°38'20.3280"
	40	33°22'36.5407"	18°38'13.0854"
<b>Alternative Substation</b>		33°22'37.1204"	18°38'12.3060"

## **Appendix J: Peer reviewer's report and checklist**

(See list attached hereto)

## **Appendix K: Other**

(See list attached hereto)