

Dale Holder

From: Thabile Sangweni <TSangweni@environment.gov.za>
Sent: 16 October 2020 05:21 PM
To: Dale Holder; Muhammad Essop; Coenrad Agenbach; Ephron Maradwa
Subject: Re: 2020-08-0028

Dear Dale

This is to inform you that your PP plan has been approved.

Regards
Thabile

On 15 Oct 2020, at 15:53, Dale Holder <dale@cape-eaprac.co.za> wrote:

Good Afternoon Thabile

I hope you are well.

As per our discussion below, please refer to the updated public participation plan (revision 2) Humansrus Solar 4 amendment application.

It has been updated to include the site notice, advert and compliance with all aspects of chapter 6.

Kind Regards,

<image001.jpg>

<image004.png>

From: Thabile Sangweni <TSangweni@environment.gov.za>
Sent: 02 September 2020 12:05 PM
To: EIA Applications <EIAApplications@environment.gov.za>
Cc: Muhammad Essop <MEssop@environment.gov.za>; Coenrad Agenbach <Cagenbach@environment.gov.za>; Dale Holder <dale@cape-eaprac.co.za>
Subject: RE: 2020-08-0028

Dear Dale

Please note that this Department does not require that a pre-application meeting for this application take place.

You can proceed to submit the application for amendment as well as the Draft amendment report once the PP Plan is approved. With regards to the PP plan, please note that it is not approved as it does not address the placement of site notices as well as newspaper advert(s). We require that the PP Plan address all aspects of chapter 6 of the EIA Regulations, 2014 as amended.

Regards
Thabile

From: EIA Applications
Sent: 01 September 2020 02:05 PM
To: Thabile Sangweni
Cc: Muhammad Essop; Coenrad Agenbach; Dale Holder
Subject: 2020-08-0028

Dear Thabile

Please note that you have been allocated an application:

Type of Application: Pre-Application Meeting Request;
Reference Number: 2020-08-0028;
Date Received: 27/08/2020;
Action Required: Decide on meeting request.

Kindly let Ephron know which date the meeting is to be held, if it will be set.

*EAP/Applicant: please use this reference number when submitting the application for EA/amendment application (page 1 of the application form), as well as attach the approved PP Plan if the application requires a PP process.

EIA Applications

Integrated Environmental Authorisations
Department of Environment, Forestry and Fisheries

Please note that this email is for the receipt and processing of online applications only, and is not monitored for responses. All queries must be directed to EIAAdmin@environment.gov.za.

You are advised that this mailbox has a 48 hour response time.

Please note that this mailbox has a 5mb mail limit. No zip files are to be attached in any email.

From: Dale Holder <dale@cape-eaprac.co.za>
Sent: Thursday, August 27, 2020 10:07
To: EIA Applications <EIAApplications@environment.gov.za>
Subject: Request for Pre Application Meeting and submission of Public Participation Plan for proposed Amendment of the EA for Humansrus 4 PV Development.

To Whom it may concern.

Kindly find the following documentation attached:

1. Document Control Form
2. Request for Pre-Application Meeting
3. Proposed Public Participation Plan

These documents are submitted for a proposed part 2 amendment for the Humansrus 4 Solar Energy Development.

Kind Regards,

<image005.jpg>

<image004.png>

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'Please consider the environment before you print this email'
<SIY407.22 Public Partipation Plan Humansrus 4 - Revision 2.pdf>

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Dale Holder

From: Thabile Sangweni <TSangweni@environment.gov.za>
Sent: 27 October 2020 10:03 AM
To: Dale Holder
Cc: Muhammad Essop; Coenrad Agenbach; Ephron Maradwa
Subject: Acknowledgement letter_887_AM3

Dear Mr Holder

14/12/16/3/3/2/887/AM3

ACKNOWLEDGEMENT OF RECEIPT OF THE APPLICATION FOR AMENDMENT OF ENVIRONMENTAL AUTHORISATION ISSUED ON 30 MAY 2017 FOR THE 75MW HUMANSRUS PV4 SOLAR ENERGY FACILITY AND ITS ASSOCIATED INFRASTRUCTURE ON A PORTION OF FARM 147 HUMANSRUS NEAR PRIESKA WITHIN THE SIYATHEMBA LOCAL MUNICIPALITY IN THE NORTHERN CAPE PROVINCE

The Department confirms having received the application for amendment of environmental authorisation as well as the draft amendment report for the above mentioned project on 20 October 2020.

Please note that your application for amendment of environmental authorisation falls within the ambit of amendments to be applied for in terms of Part 2 of Chapter 5 of the Environmental Impact Assessment Regulations (2014) as amended. You are therefore referred to Regulation 30. The Department will provide comments on the draft amendment report in due course.

Should you fail to meet any of the timeframes stipulated in Regulation 32 of Part 2 of Chapter 5 of the Environmental Impact Assessment Regulations, 2014, as amended, your application will lapse.

Yours sincerely

Thabile Sangweni
Designation: Environmental Officer Specialised Officer: Integrated Environmental Authorisations
Date: 27 October 2020

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environment, forestry & fisheries

Department:
Environment, Forestry and Fisheries
REPUBLIC OF SOUTH AFRICA

Private Bag X 447 · PRETORIA · 0001 · Environment House · 473 Steve Biko Road, Arcadia, · PRETORIA

DEA Reference: 14/12/16/3/3/2/887/AM3

Enquiries: Thabile Sangweni

Telephone: (012) 399 9409 E-mail: TSangweni@environment.gov.za

Mr Dale Holder
Cape Environmental Assessment Practitioners (Pty) Ltd.
PO Box 2070
GEORGE
6530

Telephone Number: (044) 874 0365
Email Address: dale@cape-eaprac.co.za

PER MAIL / EMAIL

Dear Mr Holder

COMMENTS ON THE DRAFT MOTIVATION REPORT FOR THE APPLICATION FOR AMENDMENT OF THE ENVIRONMENTAL AUTHORISATION ISSUED ON 30 MAY 2017 FOR THE 75MW HUMANSRUS PV4 SOLAR ENERGY FACILITY AND ITS ASSOCIATED INFRASTRUCTURE ON A PORTION OF FARM 147 HUMANSRUS NEAR PRIESKA WITHIN THE SIYATHEMBA LOCAL MUNICIPALITY IN THE NORTHERN CAPE PROVINCE

The Environmental Authorisation (EA) for the above-mentioned project dated 30 May 2017, the application for amendment of the EA and the amended draft motivation report received by the Department on 20 October 2020 and the acknowledgement letter dated 27 October 2020, refer.

The Department has the following comments on the abovementioned amendment application:

(a) Specific Comments

- (i) The EAP is required to provide a detailed list of all potential amendments to the EA, which should *inter alia* recommend additional conditions that must be incorporated into the EA, provide amendments to the existing conditions of the EA by way of either removal and/or amendments as informed by the specialist's recommendations.
- (ii) The final motivation report must include specialist input, a risk assessment for the battery, and updates to the EMPr to address the additional risks.
- (iii) The draft EMPr to be submitted with the final motivation report must be updated to include and incorporate all mitigation measures recommended by the specialists.
- (iv) The EAP is to ensure that all the amendments applied for do not trigger any listed or specified activity as outlined in Regulation 31 of the EIA Regulations, 2014 as amended.

(b) Public participation

- (i) It is noted with concern that proof of public participation activities as described in the approved PPP plan is not included in the draft motivation report.
- (ii) Proof of the placement of site notices, newspaper adverts, etc. must be included in the final motivation report.

- (iii) Please ensure that comments from all relevant stakeholders are submitted to the Department with the final report. This includes but is not limited to the Northern Cape Department of Environmental and Nature Conservation, the Department of Agriculture, Forestry and Fisheries (DAFF), the provincial Department of Agriculture, the South African Civil Aviation Authority (SACAA), the Department of Transport, the Local Municipality, the District Municipality, the Department of Water and Sanitation (DWS), the South African National Roads Agency Limited (SANRAL), the South African Heritage Resources Agency (SAHRA), the Endangered Wildlife Trust (EWT), BirdLife SA, the Department of Mineral Resources, the Department of Rural Development and Land Reform, the Department of Environment, Forestry and Fisheries: Directorate Biodiversity and Conservation and the Square Kilometre Array (SKA).
- (iv) A Comments and Response trail report (C&R) must be submitted with the final report. The C&R report must incorporate all comments for this application. The C&R report must be a separate document from the main report and the format must be in the table format as indicated in Appendix 1 of this comments letter. Please refrain from summarising comments made by I&APs. All comments from I&APs must be copied verbatim and responded to clearly. Please note that a response such as "noted" is not regarded as an adequate response to I&AP's comments.
- (v) Please ensure that all issues raised and comments received during the circulation of the draft report from registered I&APs and organs of state which have jurisdiction in respect of the proposed activity are adequately addressed in the final report. Proof of correspondence with the various stakeholders must be included in the final report. Should you be unable to obtain comments, proof should be submitted to the Department of the attempts that were made to obtain comments.
- (vi) The Public Participation Process must be conducted in terms of Regulation 39, 40, 41, 42, 43 & 44 of the EIA Regulations 2014 as amended.
- (vii) The final report must also indicate that this draft report has been subjected to a public participation process.

(c) Layout & Sensitivity Maps

- (i) The applicant is required to submit a revised layout map that incorporates the specialist recommendations as reflected in the motivation report.
- (ii) The revised layout map referred to above must also indicate the location of all supporting onsite infrastructure such as laydown area, guardhouse, control room, and buildings, including accommodation etc.
- (iii) The draft EMPr to be submitted with the final motivation report must be updated to include the revised layout and incorporate all mitigation measures as recommended by the specialists.
- (iv) The final report must include an environmental sensitivity map indicating environmental sensitive areas, buffer areas and features identified during the assessment process.
- (v) The final report must include a map combining the final layout map superimposed (overlain) on the environmental sensitivity map.

(d) Specialist assessments

- (i) The EAP must provide confirmation that all specialists were provided with the same request of proposed amendments as well as ensure that the terms of reference for all the identified specialist studies include the following:
 - (a) A detailed description of the study's methodology; indication of the locations and descriptions of the development footprint, and all other associated infrastructures that they have assessed and are recommending for authorisations.
 - (b) Provide a detailed description of all limitations to the studies. All specialist studies must be conducted in the right season and providing that as a limitation will not be allowed.

- (c) Please note that the Department considers a 'no-go' area, as an area where no development of any infrastructure is allowed; therefore, no development of associated infrastructure including access roads is allowed in the 'no-go' areas.
 - (d) Should the specialist definition of 'no-go' area differ from the Department's definition; this must be clearly indicated. The specialist must also indicate the 'no-go' area's buffer if applicable.
 - (e) All specialist studies must be final, and provide detailed/practical mitigation measures and recommendations, and must not recommend further studies to be completed post EA.
 - (f) Should specialists recommend specific mitigation measures for infrastructure positions, these must be clearly indicated.
 - (g) Clearly defined cumulative impacts and where possible the size of the identified impact must be quantified and indicated, i.e. hectares of cumulatively transformed land.
 - (h) A detailed process flow to indicate how the specialist's recommendations, mitigation measures and conclusions from the various similar developments in the area were taken into consideration in the assessment of cumulative impacts and when the conclusion and mitigation measures were drafted for this project.
 - (i) Identified cumulative impacts associated with the proposed development must be rated with the significance rating methodology used in the process.
 - (j) The significance rating must also inform the need and desirability of the proposed development.
 - (k) A cumulative impact environmental statement on whether the proposed development must proceed.
- (ii) Should the appointed specialists specify contradicting recommendations, the EAP must clearly indicate the most reasonable recommendation and substantiate this with defensible reasons; and where necessary, include further expertise advice.

(e) General

- (i) Please ensure that all mitigation recommendations are in line with applicable and most recent guidelines.

You are further reminded to comply with Regulation 32(1)(a) of the NEMA EIA Regulations, 2014, as amended, which states that: *"The applicant must within 90 days of receipt by the competent authority of the application made in terms of regulation 31, submit to the competent authority -*

- (a) *a report, reflecting—*
 - (i) *an assessment of all impacts related to the proposed change;*
 - (ii) *advantages and disadvantages associated with the proposed change; and*
 - (iii) *measures to ensure avoidance, management and mitigation of impacts associated with such proposed change; and*
 - (iv) *any changes to the EMP;*
- which report-*
- (aa) *had been subjected to a public participation process, which had been agreed to by the competent authority, and which was appropriate to bring the proposed change to the attention of potential and registered interested and affected parties, including organs of state, which have jurisdiction in respect of any aspect of the relevant activity, and the competent authority, and*
 - (bb) *reflects the incorporation of comments received, including any comments of the competent authority."*

Should there be significant changes or new information that has been added to the motivation report or EMPr which changes or information was not contained in the reports or plans consulted on during the initial public participation process, you are required to comply with Regulation 32(1)(b) of the NEMA EIA Regulations, 2014, as amended, which states: *"the applicant must, within 90 days of receipt of the application by the competent authority, submit to the competent authority – (b) a notification in writing that the report will be submitted within 140 days of receipt of the application by the competent authority, as significant changes have been made or significant new information has been added to the report, which changes or information was not contained in the report consulted on during the initial public participation process contemplated in subregulation (1)(a) and that the revised report will be subjected to another public participation process of at least 30 days"*.

In the event where subregulation (1)(b) applies, the report, which reflects the incorporation of comments received, including any comments of the competent authority, must be submitted to the competent authority within 140 days of receipt of the application by the competent authority.

Should you fail to meet any of the timeframes stipulated in Regulation 32 of the NEMA EIA Regulations, 2014, as amended, your application will lapse.

You are hereby reminded of Section 24F of the National Environmental Management Act, Act No 107 of 1998, as amended, that no activity may commence prior to an environmental authorisation being granted by the Department.

Yours faithfully



Mr Sabelo Malaza
Chief Director: Integrated Environmental Authorisations
Department of Environment, Forestry and Fisheries
Letter signed by: Ms Millicent Solomons
Designation: Director: Priority Infrastructure Projects
Date: 11/11/2020.

cc:	Jixin Li	Humansrus Solar 4 (Pty) Ltd	Email: david@atlanticep.com
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Annexure 1

Format for Comments and Response Trail Report:

Date of comment, format of comment name of organisation/I&AP	Comment	Response from EAP/Applicant/Specialist
27/01/2016 Email Department of Environment, Forestry and Fisheries: Priority Infrastructure Projects (John Soap)	Please record C&R trail report in this format Please update the contact details of the provincial environmental authority	EAP: (Noted) The C&R trail report has been updated into the desired format, see Appendix K EAP: Details of provincial authority have been updated, see page 16 of the Application form

Dale Holder

From: MMatlala Rabothata <MRabothata@environment.gov.za>
Sent: 18 November 2020 01:34 PM
To: Dale Holder
Subject: Requested comments for Humansrus solar PV 3 & 4 EA amendment to include BESS
Attachments: Signed Draft Amendment Report Comments for Humansrus solar 3 & 4.pdf

Dear Dale,

Kindly find the attached comments from Directorate: Biodiversity Conservation for the abovementioned project for your consideration.

Regards,
Mmatlala
Tel: 012 399 9174

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environment, forestry & fisheries

Department: Environment, Forestry
and Fisheries
REPUBLIC OF SOUTH AFRICA

Private Bag X447, Pretoria, 0001, Environment House, 473 Steve Biko Road, Pretoria, 0002 Tel: +27 12 399 9000, Fax: + 27 86 625 1042

Reference: 14/12/16/3/3/2/888 & 14/12/16/3/3/2/887

Enquiries: Ms M Rabothata & Ms Tsholofelo Sekonko

Telephone: (012) 399 9174

E-mail: MRabothata@environment.gov.za or TSekonko@environment.gov.za

Mr Dale Holder
Cape Environmental Assessment Practitioners
PO Box 2070
GEORGE
6530

Telephone Number: + 27 (44) 874 0365
Email Address: dale@cape-eaprac.co.za

PER E-MAIL

Dear Mr. Holder

COMMENTS ON DRAFT AMENDMENT ASSESSMENT REPORT FOR AMENDMENT OF THE ENVIRONMENTAL AUTHORISATION FOR HUMANSRUS SOLAR 3 AND 4 TO INCLUDE BATTERY ENERGY STORAGE SYSTEM (BESS) NEAR PRIESKA IN THE NORTHERN CAPE

The Directorate: Biodiversity Conservation reviewed and evaluated the aforementioned draft report. Based on the information provided in the report, the proposed BESS falls entirely within the previously assessed area. Furthermore, this is an amendment to the Environmental Authorisation (EA) that is already being authorised. The proposed amendment (addition of a BESS) will not result in any significant change to their original impact rating as assessed in their previous studies and therefore no additional assessments, impacts and mitigation measures would be applicable to the BESS. The proposed BESS area and new substation position avoids all of the sensitive areas identified by the specialists.

Notwithstanding the above, the following recommendations must be considered in the final report:

- Any protected plant species present must not be removed or damaged prior to obtaining permit from relevant National or Provincial Authorities.



Batho pele- putting people first

- Alien Invasive plant species Management Plan must be developed.
- Sensitive areas in close proximity to the development footprint must be demarcated and regarded as No-Go area i.e. watercourses.

The final report must comply with all the requirements as outlined in the Environmental Impact Assessment (EIA) guideline for renewable energy projects and all the original mitigation measures as indicated in the original botanical and faunal study must still be relevant and applicable to the amended layout and must be implemented

Yours faithfully



Mr. Seoka Lekota
Control Biodiversity Officer Grade B: Biodiversity Conservation
Department of Environment, Forestry & Fisheries
Date: 17/11/2020

Dale Holder

From: John Geeringh <GeerinJH@eskom.co.za>
Sent: 19 November 2020 12:35 PM
To: Dale Holder
Subject: RE: Notification of Availability of Draft Amendment Assessment Report for Humansrus Solar 3 and Humansrus Solar 4
Attachments: Eskom requirements for work in or near Eskom servitudes.doc; Renewable Energy Generation Plant Setbacks to Eskom Infrastructure Rev2 - signed.pdf

Please find attached Eskom requirements for works at or near Eskom infrastructure ad servitudes, as well as the Setbacks Guideline for renewable energy developments including BESS. Please send me a KMZ file of the proposed position of the BESS.

Kind regards

John Geeringh (Pr Sci Nat)(EAPASA)
Senior Consultant Environmental Management
Land and Rights
Eskom Transmission Division
Megawatt Park, D1Y42, Maxwell Drive, Sunninghill, Sandton.
P O Box 1091, Johannesburg, 2000.
Tel: 011 516 7233
Cell: 083 632 7663
Fax: 086 661 4064
E-mail: john.geeringh@eskom.co.za

From: Dale Holder <dale@cape-eaprac.co.za>
Sent: Monday, 19 October 2020 16:26
To: slekota@environment.gov.za; TRatlou@environment.gov.za; Donald Matjuda <MatjudD@eskom.co.za>; MelanieM@L2B.co.za; mashuduma@daff.gov.za; thokob@daff.gov.za; Ayandam@doc.gov.za; Pheladi.Masipa@energy.gov.za; peter.novellie@sanparks.org; nomawethu.qase@energy.gov.za; bridgetc@ewt.org.za; strohl@caa.co.za; koegelenbergj@sentechn.co.za; John Geeringh <GeerinJH@eskom.co.za>; leaskk@eskom.co.za; energy@birdlife.org.za; atiplady@ska.ac.za; pixley@telkomsa.net; juliusg@nra.co.za; Justine Wyngaardt <WyngaajO@eskom.co.za>; Marshall Felaar <FelaarMB@eskom.co.za>; phine@sahra.org.za; nielj07@vodamail.co.za; mmboneni.mutheiwana@dmr.gov.za; ntsundeni.ravhugoni@dmr.gov.za; tmtho@webmail.co.za; dstander@ncpg.gov.za; ratha.timothy@gmail.com; jacolinema@daff.gov.za; ntoerien1@gmail.com; hohned@dwa.gov.za; mjh@lantic.net; humanwj@gmail.com; gloriaspeelman.gs@gmail.com; mm@siyathemba.gov.za; johannb@siyathemba.gov.za; Musa Baloye <mbaloye@ska.ac.za>; abrahamsn@nra.co.za
Subject: Notification of Availability of Draft Amendment Assessment Report for Humansrus Solar 3 and Humansrus Solar 4

Dear Interested and Affected Party

NOTIFICATION OF AVAILABILITY OF DRAFT AMENDMENT ASSESSMENT REPORT FOR HUMANSRUS SOLAR 3 AND HUMANSRUS SOLAR 4

DEFF REFERENCE HUMANSRUS SOLAR 3: 14/12/16/3/3/2/888

DEFF REFERENCE HUMANSRUS SOLAR 4: 14/12/16/3/3/2/887

Kindly find the attached notification regarding the availability of the Draft Amendment Assessment report for the abovementioned projects.

In compliance with the approved public participation plan, the amendment assessment reports as well as all appendices thereto are available on the following dedicated download link.

<https://www.dropbox.com/sh/zvmkcbhkmqfz82t/AADZo47Re72OwEqt32C7mwxva?dl=0>

In terms of the approved public participation plan, the following alternative mechanisms for accessing the reports are available to any I&AP's that may not have access to the digital platforms listed above.

1. Digital copies of the reports can be provided on CD or Flash Drive;
2. Digital copies can be provided via a sharepoint download link;
3. Digital copies can be provided via Whatsapp messenger;
4. Hard copies of the report and any relevant specialist studies can be couriered to any parties.

Should you be unable to access the documents on the Cape EAPrac website or Download Link and would like to utilise any of the alternative methods listed above, please contact Cape EAPrac on any of the contact details below.

Please contact the undersigned should you have any further queries in this regard.

Regards,

Dale Holder | 082 448 9225
SENIOR CONSULTANT | ECO | GIS
Ndip Nat. Con. (Pretoria Tech)

T: 044 874 0365
F: 044 874 0432
17 Progress Street, George
PO Box 2070, George 6530



COVID-19 operational notice



Our advisers and staff are working remotely and are contactable via email or on their cellphones.



We will advise when physical meetings and office visits can resume. Our commitment to offering you service excellence remains unchanged.

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	<p style="text-align: center;">SCOT</p>	<p style="text-align: center;">Technology</p>
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Title: **Renewable Energy Generation Plant Setbacks to Eskom Infrastructure** Unique Identifier: **240-65559775**

Alternative Reference Number: **N/A**

Area of Applicability: **Power Line Engineering**



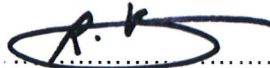
Documentation Type: **Guideline**

Revision: **2**

Total Pages: **9**

Next Review Date: **N/A**

Disclosure Classification: **CONTROLLED DISCLOSURE**

Compiled by	Approved by	Authorised by
		
<p>J W Chetty Mechanical Engineer</p>	<p>B Ntshuntsha Chief Engineer (Lines)</p>	<p>R A Vajeth Snr Manager (Lines) and SCOT/SC/ Chairperson</p>
<p>Date: 15 / 09 / 2020</p>	<p>Date: 30/10/2020</p>	<p>Date: 30/10/2020</p>

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EXECUTIVE SUMMARY

In recent decades, the use of wind turbines, concentrated solar plants and photovoltaic plants have been on the increase as it serves as an abundant source of energy. This document specifies proposed setbacks for wind turbines and the reasons for these setbacks from infrastructure as well as setbacks for concentrated solar plants and photovoltaic plants. Setbacks for wind turbines employed in other countries were compared and a general setback to be used by Eskom was suggested for use with wind turbines and other renewable energy generation plants.

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1. INTRODUCTION

During the last few decades, a large amount of wind turbines have been installed in wind farms to accommodate for the large demand of energy and depleting fossil fuels. Wind is one of the most abundant sources of renewable energy. Wind turbines harness the energy of this renewable resource for integration in electricity networks. The extraction of wind energy is its primary function and thus the aerodynamics of the wind turbine is important. There are many different types of wind turbines which will all exhibit different wind flow characteristics. The most common wind turbine used commercially is the Horizontal Axis Wind Turbine. Wind flow characteristics of this turbine are important to analyse as it may have an effect on surrounding infrastructure.

Wind turbines also cause large turbulence downwind that may affect existing infrastructure. Debris or parts of the turbine blade, in the case of a failure, may be tossed behind the turbine and may lead to damage of infrastructure in the wake path.

This document outlines the minimum distances that need to be introduced between a wind turbine and Eskom infrastructure to ensure that debris and / or turbulence would not negatively impact on the infrastructure and future expansion of infrastructure (lines and substation) as per the long term planning scenario.

Safety distances of wind turbines from other structures as implemented by other countries were also considered and the reasons for their selection were noted. All renewable energy developments are approved by The Department of Environmental Affairs, Forestry and Fisheries (DEFF) in terms of NEMA. The DEFF is aware of the setbacks guideline, however they cannot use it in terms of decision making since the setbacks document has no legal standing in SA and it would be outside of their mandate who have been advised to follow the guidelines herein.

Concentrated solar plants and photovoltaic plants setbacks away from substations were also to be considered to prevent restricting possible power line access routes to the substation and possible expansion of substations.

2. SUPPORTING CLAUSES

2.1 SCOPE

This document provides guidance on the safe distance that a wind turbine should be located from any Eskom power line or substation. Although it is not based on any legislative requirement, it is deemed important that Eskom's infrastructure and future network expansion planning is not impeded. The document specifies proposed setback distances for transmission lines (220 kV to 765 kV), distribution lines

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(66 kV to 132 kV) and all Eskom substations. Proposed setbacks for concentrated solar plants and photovoltaic plants are also specified away from substations.

2.1.1 Purpose

Setbacks for wind turbines and power lines / substations are required for various reasons. These include possible catastrophic failure of the turbine blade that may release fragments and which may be thrown onto nearby power lines that may result in damage with associated unplanned outages. Turbulence behind the turbine may affect helicopter flight during routine Eskom live line maintenance and inspections that may lead to safety risk of the aircraft / personnel. Concentrated solar plants and photovoltaic plants setback away from substations were required to prevent substations from being boxed in by these renewable generation plants limiting line route access to the substations and possible future substation expansion.

2.1.2 Applicability

This document is applicable to the siting of all new and existing wind turbines, concentrated solar plants and photovoltaic plants near power lines and substations and in line of site between Eskom telecommunication infrastructure, including future Eskom renewable energy development.

2.2 NORMATIVE/INFORMATIVE REFERENCES

2.2.1 Normative

1. <http://www.envir.ee/orb.aw/class=file/action=preview/id=1170403/Hiiumaa+turbulence+impact+EMD.pdf>.
2. <http://www.energy.ca.gov/2005publications/CEC-500-2005-184/CEC-500-2005-184.PDF>
3. <http://www.adamscountywind.com/Revised%20Site/Windmills/Adams%20County%20Ordinance/Adams%20County%20Wind%20Ord.htm>
4. http://www.dsireusa.org/incentives/incentive.cfm?Incentive_Code=PA11R&RE=1&EE=1
5. <http://www.wind-watch.org/documents/european-setbacks-minimum-distance-between-wind-turbines-and-habitations/>
6. <http://www.publications.parliament.uk/pa/ld201011/ldbills/017/11017.1-i.html>
7. http://www.caw.ca/assets/pdf/Turbine_Safety_Report.pdf
8. Rogers J, Slegers N, Costello M. (2011) A method for defining wind turbine setback standards. Wind energy 10.1002/we.468

2.2.2 Informative

None

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2.3 DEFINITIONS

Definition	Description
Setback	The minimum distance between a wind turbine and boundary line/dwelling/road/infrastructure/servitude etc.
Flicker	Effect caused when rotating wind turbine blades periodically cast shadows
Tip Height	The total height of the wind turbine ie. Hub height plus half rotor diameter (see Figure1)

2.3.1 Disclosure Classification

Controlled disclosure: controlled disclosure to external parties (either enforced by law, or discretionary).

2.4 ABBREVIATIONS

Abbreviation	Description
None	

2.5 ROLES AND RESPONSIBILITIES

All parties involved in the positioning wind turbines, concentrated solar plants and photovoltaic plants near power lines/substations should endeavour to follow the setbacks outlined in this guideline.

2.6 PROCESS FOR MONITORING

Agreement by Eskom in writing on any encroachment of the setbacks distance should be requested via the Grid Access Unit. Eskom should ensure that every application for renewable energy (RE) developments are informed about the existence of the setbacks document early in the RE planning process to ensure maximum effect. This includes Eskom RE development.

2.7 RELATED/SUPPORTING DOCUMENTS

None

3. DOCUMENT CONTENT

3.1 INTERNATIONAL SETBACK COMPARISON

Wind Turbine setbacks employed by various countries were considered. It was found that setbacks were determined for various reasons that include noise, flicker, turbine blade failure and wind effects as well as

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future network expansion planning. The distances (setbacks) varied based on these factors and were influenced by the type of infrastructure

Wind turbine setbacks varied for roads, power lines, dwellings, buildings and property and it was noted that the largest setbacks were employed for reasons of noise and flicker related issues [1-7]. Very few countries specified setbacks for power lines.

The literature survey [1-7], yielded information about studies and experiments were conducted to determine the distance that a broken fragment from a wind turbine might be thrown. Even though of low probability of hitting a power line [5.0×10^{-5}]^[8], the distances recorded were significant [750m^[8]]

Wind turbines may also cause changes in wind patterns with turbulent effects behind the hub. These factors influence the wind turbine setbacks specified in this document.

Setbacks were thus introduced to prevent any damage to Eskom infrastructure and impedance to operation and future network expansion planning.

Renewable energy plant can also limit access into substations for power lines of all voltages. A setback distance should therefore be employed to prevent substations from being boxed in by these generation plants and preventing future network expansion. These setback distances are specified in this document.

3.2 ESKOM RECOMMENDED SETBACKS

Any renewable energy applicant should engage with Eskom to determine if their plant layout or positioning of turbines, CSP or PV infrastructure would encroach on the proposed setbacks provided for in this guideline and to ensure that their planning and Eskom's future expansion planning is taken into account. Eskom must inform all renewable energy developers, including Eskom RE, of the existence of the setbacks guideline early in the development process. Should there be an encroachment, a formal request should be sent to and accepted by Eskom in writing if any of the below mentioned setback distances are infringed upon:

- Eskom requests a setback distance of 3 times the tip height of the wind turbine from the edge of the closest Eskom servitude (including vacant servitudes) for transmission lines (220kV to 765kV) and Substations.
- Eskom requests a setback distance of 1 times the tip height of the wind turbine from the edge of the closest Eskom servitude (including vacant servitudes) for distribution lines (66 kV to 132 kV) and Substations.

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- A written request should be sent to Eskom via the Grid Access Unit regarding any proposed wind turbine, concentrated solar plants and photovoltaic activity within a 5 km radius of a substation for Eskom to comment on.
- Where concentrated solar plants, photovoltaic structures, battery storage systems (BESS) and other renewable generation plants fall within a 2 km radius of the closest point of a transmission or distribution substation (66kV to 765kV), a written agreement with Eskom is recommended during the planning phase of such plant or structures to ensure Eskom's future planning is not impeded.
- Applicants should not position any wind turbine in the line of site between and two Eskom Radio Telecommunication masts. It should be proven that Eskom radio telecommunication systems (mainly microwave systems) will not be affected in any way by wind turbines due to the criticality of this infrastructure in terms of network operation. Eskom Telecommunications should be engaged on this matter.
- If the position or size of any turbine changes and subsequently infringes on any of the above stated setbacks, a request for relaxation must be sent through to Eskom as per the point mentioned above.

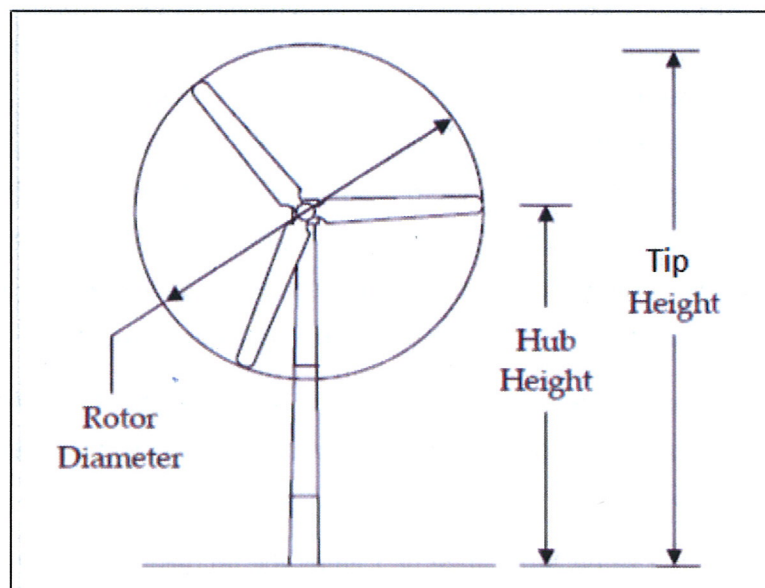


Figure 1: Horizontal Axis Wind Turbine ^[2]

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4. AUTHORISATION

This document has been seen and accepted by:

Name & Surname	Designation
V Naidoo	Chief Engineer
Dr P Pretorius	Electrical Specialist
J Geeringh	Snr Consultant Environ Mngt
B Haridass	Snr Consultant Engineer
B Ntshuntsha	Chief Engineer
R Vajeth	Snr Manager (Lines)
D A Tunnicliff	Snr Manager L&R (Acting)
B Branfield	Snr Consultant Engineer

5. REVISIONS

Date	Rev.	Compiler	Remarks
November 2013	0	J W Chetty	First Publication - No renewable energy generation plant setback specification in existence.
October 2018	1	JW Chetty	Modification to sub-section 3.2 to provide more clarity for application procedure.
June 2020	2	JW Chetty	Content within the guideline was re-worded to explain the benefits of mutual agreements between the applicants and ESKOM rather than the application being a legal obligation.

6. DEVELOPMENT TEAM

The following people were involved in the development of this document:

Jonathan Chetty (Mechanical Engineer)

Vivendhra Naidoo (Chief Engineer)

Dr Pieter Pretorius (Electrical Specialist)

John Geeringh (Snr Consultant Environ Mngt)

Bharat Haridass (Snr Consultant Engineer)

Riaz Vajeth (Snr Manager (Lines))

Bruce Ntshuntsha (Chief Engineer)

David Tunnicliff (Snr Manager L&R Acting)

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TO WHOM IT MAY CONCERN

Eskom requirements for work in or near Eskom servitudes.

1. Eskom's rights and services must be acknowledged and respected at all times.
2. Eskom shall at all times retain unobstructed access to and egress from its servitudes.
3. Eskom's consent does not relieve the developer from obtaining the necessary statutory, land owner or municipal approvals.
4. Any cost incurred by Eskom as a result of non-compliance to any relevant environmental legislation will be charged to the developer.
5. If Eskom has to incur any expenditure in order to comply with statutory clearances or other regulations as a result of the developer's activities or because of the presence of his equipment or installation within the servitude restriction area, the developer shall pay such costs to Eskom on demand.
6. The use of explosives of any type within 500 metres of Eskom's services shall only occur with Eskom's previous written permission. If such permission is granted the developer must give at least fourteen working days prior notice of the commencement of blasting. This allows time for arrangements to be made for supervision and/or precautionary instructions to be issued in terms of the blasting process. It is advisable to make application separately in this regard.
7. Changes in ground level may not infringe statutory ground to conductor clearances or statutory visibility clearances. After any changes in ground level, the surface shall be rehabilitated and stabilised so as to prevent erosion. The measures taken shall be to Eskom's satisfaction.
8. Eskom shall not be liable for the death of or injury to any person or for the loss of or damage to any property whether as a result of the encroachment or of the use of the servitude area by the developer, his/her agent, contractors, employees, successors in title, and assignees. The developer indemnifies Eskom against loss, claims or damages including claims pertaining to consequential damages by third parties and whether as a result of damage to or interruption of or interference with Eskom's services or apparatus or otherwise. Eskom will not be held responsible for damage to the developer's equipment.
9. No mechanical equipment, including mechanical excavators or high lifting machinery, shall be used in the vicinity of Eskom's apparatus and/or services, without prior written permission having been granted by Eskom. If such permission is granted the developer must give at least seven working days' notice prior to the commencement of work. This allows time for arrangements to be made for supervision and/or precautionary instructions to be issued by the relevant Eskom Manager

Note: Where and electrical outage is required, at least fourteen work days are required to arrange it.

10. Eskom's rights and duties in the servitude shall be accepted as having prior right at all times and shall not be obstructed or interfered with.
11. Under no circumstances shall rubble, earth or other material be dumped within the servitude restriction area. The developer shall maintain the area concerned to Eskom's satisfaction. The developer shall be liable to Eskom for the cost of any remedial action which has to be carried out by Eskom.
12. The clearances between Eskom's live electrical equipment and the proposed construction work shall be observed as stipulated by *Regulation 15 of the Electrical Machinery Regulations of the Occupational Health and Safety Act, 1993 (Act 85 of 1993)*.
13. Equipment shall be regarded electrically live and therefore dangerous at all times.
14. In spite of the restrictions stipulated by Regulation 15 of the Electrical Machinery Regulations of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), as an additional safety precaution, Eskom will not approve the erection of houses, or structures occupied or frequented by human beings, under the power lines or within the servitude restriction area.
15. Eskom may stipulate any additional requirements to highlight any possible exposure to Customers or Public to coming into contact or be exposed to any dangers of Eskom plant.
16. It is required of the developer to familiarise himself with all safety hazards related to Electrical plant.
17. Any third party servitudes encroaching on Eskom servitudes shall be registered against Eskom's title deed at the developer's own cost. If such a servitude is brought into being, its existence should be endorsed on the Eskom servitude deed concerned, while the third party's servitude deed must also include the rights of the affected Eskom servitude.

John Geeringh (Pr Sci Nat)(EAPASA)
Senior Consultant Environmental Management
Eskom Transmission Division: Land & Rights
Megawatt Park, D1Y42, Maxwell Drive, Sunninghill, Sandton.
P O Box 1091, Johannesburg, 2000.
Tel: 011 516 7233
Cell: 083 632 7663
Fax: 086 661 4064
E-mail: john.geeringh@eskom.co.za

Dale Holder

From: Dale Holder
Sent: 24 November 2020 03:16 PM
To: John Geeringh
Subject: RE: Notification of Availability of Draft Amendment Assessment Report for Humansrus Solar 3 and Humansrus Solar 4
Attachments: Humansrus 3 BESS Amendment Layout.kmz; Humansrus 4 BESS Amendment Layout.kmz

Dear John

Thank you for the comments on the proposed amendments.

I confirm that I will include these comments in the revised EMPr for the Facility.

Kindly find the attached KMZ's as requested (These include the BESS as well as the Authorised PV Footprint)

Regards,

Dale Holder | 082 448 9225
SENIOR CONSULTANT | ECO | GIS
Ndip Nat. Con. (Pretoria Tech)

T: 044 874 0365
F: 044 874 0432
17 Progress Street, George
P O Box 2070, George 6530



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Our advisers and staff are working remotely and are contactable via email or on their cellphones.



We will advise when physical meetings and office visits can resume. Our commitment to offering you service excellence remains unchanged.

From: John Geeringh <GeerinJH@eskom.co.za>

Sent: 19 November 2020 12:35 PM

To: Dale Holder <dale@cape-eaprac.co.za>

Subject: RE: Notification of Availability of Draft Amendment Assessment Report for Humansrus Solar 3 and Humansrus Solar 4

Please find attached Eskom requirements for works at or near Eskom infrastructure ad servitudes, as well as the Setbacks Guideline for renewable energy developments including BESS. Please send me a KMZ file of the proposed position of the BESS.

Kind regards

John Geeringh (Pr Sci Nat)(EAPASA)
Senior Consultant Environmental Management
Land and Rights
Eskom Transmission Division
Megawatt Park, D1Y42, Maxwell Drive, Sunninghill, Sandton.
P O Box 1091, Johannesburg, 2000.

Tel: 011 516 7233
Cell: 083 632 7663
Fax: 086 661 4064
E-mail: john.geeringh@eskom.co.za

From: Dale Holder <dale@cape-eaprac.co.za>

Sent: Monday, 19 October 2020 16:26

To: slekota@environment.gov.za; TRatlou@environment.gov.za; Donald Matjuda <MatjudD@eskom.co.za>; MelanieM@L2B.co.za; mashuduma@daff.gov.za; thokob@daff.gov.za; Ayandam@doc.gov.za; Pheladi.Masipa@energy.gov.za; peter.novellie@sanparks.org; nomawethu.qase@energy.gov.za; bridgetc@ewt.org.za; strohl@caa.co.za; koegelenbergj@sentech.co.za; John Geeringh <GeerinJH@eskom.co.za>; leaskk@eskom.co.za; energy@birdlife.org.za; atiplady@ska.ac.za; pixley@telkomsa.net; juliusg@nra.co.za; Justine Wyngaardt <WyngaajO@eskom.co.za>; Marshall Felaar <FelaarMB@eskom.co.za>; phine@sahra.org.za; nielj07@vodamail.co.za; mmboneni.mutheiwana@dmr.gov.za; ntsundeni.ravhugoni@dmr.gov.za; tmtho@webmail.co.za; dstander@ncpg.gov.za; ratha.timothy@gmail.com; jacolinema@daff.gov.za; ntoerien1@gmail.com; hohned@dwa.gov.za; mjh@lantic.net; humanwj@gmail.com; gloriaspeelman.gs@gmail.com; mm@siyathemba.gov.za; johannb@siyathemba.gov.za; Musa Baloye <mbaloye@ska.ac.za>; abrahamsn@nra.co.za

Subject: Notification of Availability of Draft Amendment Assessment Report for Humansrus Solar 3 and Humansrus Solar 4

Dear Interested and Affected Party

NOTIFICATION OF AVAILABILITY OF DRAFT AMENDMENT ASSESSMENT REPORT FOR HUMANSRUS SOLAR 3 AND HUMANSRUS SOLAR 4

DEFF REFERENCE HUMANSRUS SOLAR 3: 14/12/16/3/3/2/888

DEFF REFERENCE HUMANSRUS SOLAR 4: 14/12/16/3/3/2/887

Kindly find the attached notification regarding the availability of the Draft Amendment Assessment report for the abovementioned projects.

In compliance with the approved public participation plan, the amendment assessment reports as well as all appendices thereto are available on the following dedicated download link.

<https://www.dropbox.com/sh/zvmkcbhkmqfz82t/AADZo47Re72OwEq32C7mwxva?dl=0>

In terms of the approved public participation plan, the following alternative mechanisms for accessing the reports are available to any I&AP's that may not have access to the digital platforms listed above.

1. Digital copies of the reports can be provided on CD or Flash Drive;
2. Digital copies can be provided via a sharepoint download link;
3. Digital copies can be provided via Whatsapp messenger;
4. Hard copies of the report and any relevant specialist studies can be couriered to any parties.

Should you be unable to access the documents on the Cape EAPrac website or Download Link and would like to utilise any of the alternative methods listed above, please contact Cape EAPrac on any of the contact details below.

Please contact the undersigned should you have any further queries in this regard.

Regards,

Dale Holder | 082 448 9225
SENIOR CONSULTANT | ECO | GIS
Ndip.Nat. Con. (Pretoria Tech)

T: 044 874 0365
F: 044 874 0432
17 Progress Street, George
P O Box 2070, George 6530



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