



31 May 2017
478317
DEA Ref. No.: 14/12/16/3/3/2/947

Dear Stakeholder

NOTIFICATION OF ENVIRONMENTAL AUTHORISATION FOR THE PROPOSED USED FUEL TRANSIENT INTERIM STORAGE FACILITY AT KOEBERG NUCLEAR POWER STATION

Notice is hereby given that on 17 May 2017, the National Department of Environmental Affairs (DEA) granted Environmental Authorisation (EA) for the proposed used fuel Transient Interim Storage Facility at Koeberg Nuclear Power Station in terms of the National Environmental Management Act 107 of 1998, and the Environmental Impact Assessment Regulations, 2014. This authorisation was received by the applicant, Eskom Holdings SOC Ltd, on 31 May 2017.

The granting of the EA is subject to a number of conditions, which, along with the reasons for the decision, are set out in the EA attached as Appendix A.

In terms of the National Appeal Regulations, 2014, and the EA, any person wishing to appeal against the decision must submit an appeal to the Appeal Administrator (see below), and forward a copy of the appeal to all registered Interested and Affected Parties (I&APs), any Organ of State with interest in the matter, and the decision-maker within 20 calendar days from the date that I&APs were notified of the decision (i.e. by 21 June 2017).

The appeal must be submitted in the prescribed form to Mr Z Hassam (Director: Appeals and Legal Review):

- By email: appealsdirector@environment.gov.za;
- By post: Private Bag x447, Pretoria, 0001; or
- By hand: Environment House, 473 Steve Biko Road, Arcadia, Pretoria

The applicant's contact details for submission of copies of the appeal, are as follows:

- By email: LaveloR@eskom.co.za;
- By post: Attention Randall Lavelot, Nuclear Project Management, Koeberg Operating Unit, Private Bag X10, Kernkrag, 7440, SA; or
- By hand: Attention Randall Lavelot, Nuclear Project Management, Koeberg Nuclear Power Station, R27 Off West Coast Rd, Melkbosstrand.

The contact details of registered I&APs can be obtained from SRK on request for submission of copies of the appeal.

Partners R Armstrong, AH Bracken, N Brien, JM Brown, CD Dalglish, BM Engelsman, R Gardiner, M Hinsch, GC Howell, WC Joughin, DA Kilian, S Kisten, JA Lake, V Maharaj, DJ Mahlangu, I Mahomed, RRW McNeill, HAC Meintjes, MJ Morris, GP Nel, VS Reddy, PE Schmidt, PJ Shepherd, MJ Sim, VM Simposya, HFJ Theart, KM Uderstadt, AT van Zyl, MD Wanless, ML Wertz, A Wood

Directors AJ Barrett, GC Howell, WC Joughin, V Maharaj, VS Reddy, PE Schmidt, PJ Shepherd

Associate Partners PJ Aucamp, LSE Coetser, CJ Ford, E Goossens, SG Jones, W Jordaan, F Lake, MJ Meiring, L Nedeljkovic, RD O'Brien, T Shepherd, JJ Slabbert, WI Stewart, JS Stiff, M van Huyssteen, D Visser

Consultants JAC Cowan, *PrSciNat, BSc(Hons)*; JH de Beer, *PrSci Nat, MSc*; JR Dixon, *PrEng*; T Hart, *MA, TTHD*; GA Jones, *PrEng, PhD*; PR Labrum, *PrEng*; PN Rosewame, *PrSciNat*; AA Smithen, *PrEng*; TR Stacey, *PrEng, DSc*; OKH Steffen, *PrEng, PhD*; PJ Tebrugge, *PrSciNat, MSc*; DJ Venter; *PrTech*

SRK Consulting (South Africa) (Pty) Ltd

Reg No 1995.012890.07

African Offices:

Cape Town	+ 27 (0) 21 659 3060
Durban	+ 27 (0) 31 279 1200
East London	+ 27 (0) 43 748 6292
Johannesburg	+ 27 (0) 11 441 1111
Kimberley	+ 27 (0) 53 861 5798
Pietermaritzburg	+ 27 (0) 33 347 5069
Port Elizabeth	+ 27 (0) 41 509 4800
Pretoria	+ 27 (0) 12 361 9821
Rustenburg	+ 27 (0) 14 594 1280
Accra	+ 23 (3) 24 485 0928
Lubumbashi	+ 243 (0) 81 999 9775

Group Offices:

Africa
Asia
Australia
Europe
North America
South America



Should you require further information, please contact Jessica du Toit of SRK via email jedutoit@srk.co.za, or forward correspondence to Postnet Suite #206, Private Bag X18, Rondebosch, 7701. Alternatively, please send a fax to 086 530 7003 or call tel. 021 659 3060.

Yours faithfully,

SRK Consulting (South Africa) (Pty) Ltd

SRK Consulting - Certified Electronic Signature

The logo for SRK Consulting features the letters 'srk' in a bold, orange, sans-serif font, followed by the word 'consulting' in a smaller, grey, sans-serif font. To the right of the text is a stylized, handwritten signature in black ink.

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This signature has been printed digitally. The Author has given permission for its use for this document. The details are stored in the SRK Signature Database.

Sharon Jones

Principal Environmental Consultant

Appendix A: Environmental Authorisation



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

Private Bag X 447 · PRETORIA · 0001 · Environment House · 473 Steve Biko Road, Arcadia · PRETORIA
Tel (+ 27 12) 399 9372

DEA Reference: 14/12/16/3/3/2/947

Enquiries: Ms Portia Makitla

Telephone: 012-399-9411 **E-mail:** pmakitla@environment.gov.za

Mr Velaphi Ntuli
Eskom Holdings SOC Ltd
P O Box 1091
JOHANNESBURG
2000

Tel: 021 685 7105
E-mail: ntuliv@eskom.co.za

PER E-MAIL / MAIL

Dear Mr Ntuli

ENVIRONMENTAL AUTHORISATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998: GN R. 982/983/984/985: CONSTRUCTION OF A USED FUEL TRANSIENT INTERIM STORAGE FACILITY AT KOEBERG NUCLEAR POWER STATION, WESTERN CAPE PROVINCE

With reference to the above application, please be advised that the Department has decided to grant authorisation. The Environmental Authorisation (EA) and reasons for the decision are attached herewith.

In terms of Regulation 4(2) of the Environmental Impact Assessment Regulations, 2014 (the Regulations), you are instructed to notify all registered interested and affected parties, in writing and within 14 (fourteen) days of the date of the EA, of the Department's decision in respect of your application as well as the fact that an appeal may be lodged against the decision in terms of the National Appeals Regulations, and the provisions regarding the submission of appeals as contained in the Regulations.

Should any person wish to lodge an appeal against this decision, he/she must submit the appeal to the appeal administrator, and a copy of the appeal to the applicant, any registered interested and affected party, and any organ of state with interest in the matter within 20 days from the date that the notification of the decision was sent to the registered interested and affected parties by the applicant; or the date that the notification of the decision was sent to the applicant by the Department, whichever is applicable.

Appeals must be submitted in writing in the prescribed form to:

Mr Z Hassam, Director: Appeals and Legal Review of this Department at the below mentioned addresses.

By email: appealsdirector@environment.gov.za;

By hand: Environment House
473 Steve Biko Road,
Arcadia,
Pretoria, or

By post Private Bag X447,
Pretoria,
0001

Please note that in terms of Section 43(7) of the National Environmental Management Act, 1998, the lodging of an appeal will suspend the environmental authorisation or any provision or condition attached thereto. In the instance where an appeal is lodged, you may not commence with the activity until such time that the appeal is finalised.

To obtain the prescribed appeal form and for guidance on the submission of appeals, please visit the Department's website at https://www.environment.gov.za/documents/forms#legal_authorisations or request a copy of the documents at appealsdirector@environment.gov.za.

Yours faithfully



Mr Sabelo Malaza
Chief Director, Integrated Environmental Authorisations
Department of Environmental Affairs

Date: 19/05/2017

CC:	Sharon Jones	SRK Consulting Pty Ltd	Tel: 021 685 7105	Email: sjones@srk.co.za
	Adri La Meyer	WC DEADP	Tel: 021 659 3060	Email: adri.lameyer@westerncape.gov.c.za



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

Environmental Authorisation

In terms of regulation 25 of the Environmental Impact Assessment Regulations, 2014

Construction of a used fuel Transient Interim Storage Facility at Koeberg Nuclear Power Station,
Western Cape Province

City of Cape Town

Authorisation register number:	<i>14/12/16/3/3/2/947</i>
Last amended:	<i>First issue</i>
Holder of authorisation:	<i>ESKOM HOLDINGS SOC LTD</i>
Location of activity:	<i>WESTERN CAPE PROVINCE</i>

This environmental authorisation does not negate the holder of the authorisation's responsibility to comply with any other statutory requirements that may be applicable to the undertaking of the activity.

Decision

The Department is satisfied, on the basis of information available to it and subject to compliance with the conditions of this environmental authorisation, that the applicant should be authorised to undertake the activities specified below.

Non-compliance with a condition of this environmental authorisation may result in criminal prosecution or other actions provided for in the National Environmental Management Act, 1998 and the EIA Regulations, 2014.

Details regarding the basis on which the Department reached this decision are set out in Annexure 1.

Activities authorised

By virtue of the powers conferred on it by the National Environmental Management Act, 1998 (Act No.107 of 1998) and the Environmental Impact Assessment Regulations, 2014 the Department hereby authorises –

ESKOM HOLDINGS SOC LTD

(hereafter referred to as the **holder of the authorisation**)

with the following contact details –

Mr Velaphi Ntuli
Eskom Holdings SOC Ltd
P O Box 1091
JOHANNESBURG
2000

Tel: 021 685 7105
E-mail: ntuliv@eskom.co.za

to undertake the following activities (hereafter referred to as "the activity") indicated in Listing Notice 1 (GN R. 984 & 985):

Listed activities	Activity/Project description
<p><u>GN R. 984 Item 27:</u></p> <p>(i) The clearance of an area of 1 hectare or more, but less than 20 hectares of indigenous vegetation except where such clearance of indigenous vegetation is required for-</p> <p>(i) the undertaking of a linear activity; or</p> <p>(ii) maintenance purposes undertaken in accordance with a maintenance management plan.</p>	<p>Construction of the TISF will require clearing of more than 1 ha of indigenous vegetation.</p>
<p><u>GN R. 985 Item 3:</u></p> <p>The development and related operation of facilities or infrastructure for nuclear reaction including energy generation, the production, enrichment, processing, reprocessing, storage or disposal of nuclear fuels, radioactive products, nuclear waste or radioactive waste.</p>	<p>The proposed TISF will be used to temporarily store used nuclear fuel.</p>
<p><u>GN R. 985 Item 12:</u></p> <p>The clearance of an area of 300 square metres or more of indigenous vegetation except (a) In Western Cape Province: i. Within any critically endangered or endangered where such clearance of ecosystem listed in terms of section 52 of the NEMBA or indigenous vegetation is prior to the publication of such a list, within an area that is required for maintenance has been identified as critically endangered in the purposes undertaken in National Spatial Biodiversity Assessment 2004; accordance with a maintenance ii. Within critical biodiversity areas identified in bioregional management plan. iii. Within the littoral active zone or 100 metres inland from high water mark of the sea or an estuarine functional zone, whichever distance is the greater, excluding where such removal will occur behind the development setback line on erven in urban areas; or iv. On land, where, at the time of the coming into effect of this Notice or thereafter such land was zoned open space, conservation or had an equivalent zoning.</p>	<p>The site of the proposed TISF is located within the Western Strandveld Bioregion. The vegetation type is Cape Flat Dune Strandveld, which is listed as Endangered in the region. More than 300 square meters will be cleared for the construction of the TISF.</p>

as described in the Environmental Impact Assessment Report (EIAR) dated February 2017 at:

Farm Name: Cape Farm Duynefontein No. 1552

21 Digit SG code:

C	0	1	6	0	0	0	0	0	0	0	0	1	5	5	2	0	0	0	0
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Storage facility	Latitude	Longitude
	33°40'22.78"S;	18°25'48.76"E

- for the construction of used fuel transient interim storage facility (TISF) at Koeberg Nuclear Power Station (KNPS), Farm Duynefontein 1552 in the Western Cape Province, hereafter referred to as "the property".

The proposed TISF will comprise of a concrete pad(s) within a site footprint of approximately 1.28 ha (12 800 m²) and will be designed to accommodate storage of not more than 160 casks, for used nuclear fuel generated at Koeberg up to the end of operational life of the plant.

Conditions of this Environmental Authorisation

Scope of authorisation

1. The preferred site Alternative 1 located on the geographic coordinates above is approved.
2. Authorisation of the activity is subject to the conditions contained in this environmental authorisation, which form part of the environmental authorisation and are binding on the holder of the authorisation.
3. The holder of the authorisation is responsible for ensuring compliance with the conditions contained in this environmental authorisation. This includes any person acting on the holder's behalf, including but not limited to, an agent, servant, contractor, sub-contractor, employee, consultant or person rendering a service to the holder of the authorisation.
4. The activities authorised must only be carried out at the property as described above.
5. Any changes to, or deviations from, the project description set out in this environmental authorisation must be approved, in writing, by the Department before such changes or deviations may be effected.

In assessing whether to grant such approval or not, the Department may request such information as it deems necessary to evaluate the significance and impacts of such changes or deviations and it may be necessary for the holder of the authorisation to apply for further environmental authorisation in terms of the regulations.

6. The holder of an environmental authorisation must apply for an amendment of the environmental authorisation with the competent authority for any alienation, transfer or change of ownership rights in the property on which the activity is to take place.
7. This activity must commence within a period of five (5) years from the date of issue of this environmental authorisation. If commencement of the activity does not occur within that period, the authorisation lapses and a new application for environmental authorisation must be made in order for the activity to be undertaken.
8. Commencement with one activity listed in terms of this environmental authorisation constitutes commencement of all authorised activities.

Notification of authorisation and right to appeal

9. The holder of the authorisation must notify every registered interested and affected party, in writing and within 14 (fourteen) calendar days of the date of this environmental authorisation, of the decision to authorise the activity.
10. The notification referred to must –
 - 10.1. specify the date on which the authorisation was issued;
 - 10.2. inform the interested and affected party of the appeal procedure provided for in the National Appeal Regulations, 2014;
 - 10.3. advise the interested and affected party that a copy of the authorisation will be furnished on request; and
 - 10.4. give the reasons of the competent authority for the decision.
11. The holder of the authorisation must publish a notice –
 - 11.1. informing interested and affected parties of the decision;
 - 11.2. informing interested and affected parties where the decision can be accessed; and
 - 11.3. drawing the attention of interested and affected parties to the fact that an appeal may be lodged against this decision in terms of the National Appeal Regulations, 2014.

Commencement of the activity

12. The authorised activity must not commence until the period for the submission of appeals has lapsed as per the National Appeal Regulations, 2014 and no appeal has been lodged against the decision. In terms of section 43(7), an appeal under section 43 of the National Environmental Management Act, 1998 will suspend the environmental authorisation or any provision or condition attached thereto. In the instance where an appeal is lodged you may not commence with the activity until such time that the appeal has been finalised.

Management of the activity

13. The Environmental Management Programme (EMPr) submitted as part of the Application for EA is hereby approved. This EMPr must be implemented and strictly adhered to.

Frequency and process of updating the EMPr

14. The EMPr must be updated where the findings of the environmental audit reports, contemplated in Condition 23 below, indicate insufficient mitigation of environmental impacts associated with the undertaking of the activity, or insufficient levels of compliance with the environmental authorisation or EMPr.
15. The updated EMPr must contain recommendations to rectify the shortcomings identified in the environmental audit report.
16. The updated EMPr must be submitted to the Department for approval together with the environmental audit report, as per Regulation 34 of GN R. 982. The updated EMPr must have been subjected to a public participation process, which process has been agreed to by the Department, prior to submission of the updated EMPr to the Department for approval.
17. In assessing whether to grant approval of an EMPr which has been updated as a result of an audit, the Department will consider the processes prescribed in Regulation 35 of GN R.982. Prior to approving an amended EMPr, the Department may request such amendments to the EMPr as it deems appropriate to ensure that the EMPr sufficiently provides for avoidance, management and mitigation of environmental impacts associated with the undertaking of the activity.
18. The holder of the authorisation may apply for an amendment of an EMPr, if such amendment is required before an audit is required. The holder must notify the Department of its intention to amend the EMPr at least 60 days prior to submitting such amendments to the EMPr to the Department for

approval. In assessing whether to grant such approval or not, the Department will consider the processes and requirements prescribed in Regulation 37 of GN R. 982.

Monitoring

19. The holder of the authorisation must appoint an experienced independent Environmental Control Officer (ECO) for the construction phase of the development that will have the responsibility to ensure that the mitigation/rehabilitation measures and recommendations referred to in this environmental authorisation are implemented and to ensure compliance with the provisions of the approved EMPr.
 - 19.1. The ECO must be appointed before commencement of any authorised activities.
 - 19.2. Once appointed, the name and contact details of the ECO must be submitted to the *Director: Compliance Monitoring* of the Department at Directorcompliance@environment.gov.za.
 - 19.3. The ECO must keep record of all activities on site, problems identified, transgressions noted and a task schedule of tasks undertaken by the ECO.
 - 19.4. The ECO must remain employed until all rehabilitation measures, as required for implementation due to construction damage, are completed and the site is ready for operation.

Recording and reporting to the Department

20. All documentation e.g. audit/monitoring/compliance reports and notifications, required to be submitted to the Department in terms of this environmental authorisation, must be submitted to the *Director: Compliance Monitoring* of the Department at Directorcompliance@environment.gov.za.
21. The holder of the environmental authorisation must, for the period during which the environmental authorisation and EMPr remain valid, ensure that project compliance with the conditions of the environmental authorisation and the EMPr are audited, and that the audit reports are submitted to the *Director: Compliance Monitoring* of the Department at Directorcompliance@environment.gov.za.
22. The frequency of auditing and of submission of the environmental audit reports must be as per the frequency indicated in the EMPr, taking into account the processes for such auditing as prescribed in Regulation 34 of GN R. 982.
23. The holder of the authorisation must, in addition, submit an environmental audit reports to the Department within 30 days of completion of the construction phase (i.e. within 30 days of site

handover) and a final environmental audit report within 30 days of completion of rehabilitation activities.

24. The environmental audit reports must be compiled in accordance with appendix 7 of the EIA Regulations, 2014 and must indicate the date of the audit, the name of the auditor and the outcome of the audit in terms of compliance with the environmental authorisation conditions as well as the requirements of the approved EMPr.
25. Records relating to monitoring and auditing must be kept on site and made available for inspection to any relevant and competent authority in respect of this development.

Notification to authorities

26. A written notification of commencement must be given to the Department no later than fourteen (14) days prior to the commencement of the activity. Commencement for the purposes of this condition includes site preparation. The notice must include a date on which it is anticipated that the activity will commence, as well as a reference number.

Operation of the activity

27. A written notification of operation must be given to the Department no later than fourteen (14) days prior to the commencement of the activity operational phase.

Site closure and decommissioning

28. Should the activity ever cease or become redundant, the holder of the authorisation must undertake the required actions as prescribed by legislation at the time and comply with all relevant legal requirements administered by any relevant and competent authority at that time.

Specific conditions

29. A botanist must be appointed to confirm the presence of and mark Species of Conservation Concern (SCC) and protected species particularly *Lampranthus cf explanatus* within the area.
 30. Rescue and relocation of SCC prior the commencement of construction activities and *Lampranthus cf explanatus* must be relocated into the Koeberg Nature Reserve in consultation with CapeNature.
 31. A permit must be obtained from the relevant nature conservation agency for the removal or destruction of SCC, indigenous, protected or endangered plant or animal species.
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32. No exotic plants must be used for rehabilitation purposes. Only indigenous plants of the area must be utilised.
33. The holder of the authorisation is required to inform the relevant Department should the removal of protected species, medicinal plants and "data deficient" plant species be required.
34. In case of the presence of any graves, or human remains, fragments of fossil bone, ostrich egg and stone fragments construction activities must stop and be reported to the Heritage Western Cape or qualified archaeologist.
35. An integrated waste management approach must be implemented that is based on waste minimisation and must incorporate reduction, recycling, re-use and disposal.

General

36. A copy of this environmental authorisation, the audit and compliance monitoring reports, and the approved EMPr, must be made available for inspection and copying-
 - 36.1. at the site of the authorised activity;
 - 36.2. to anyone on request; and
 - 36.3. where the holder of the environmental authorisation has a website, on such publicly accessible website.
37. National government, provincial government, local authorities or committees appointed in terms of the conditions of this authorisation or any other public authority shall not be held responsible for any damages or losses suffered by the holder of the authorisation or his/her successor in title in any instance where construction or operation subsequent to construction be temporarily or permanently stopped for reasons of non-compliance by the holder of the authorisation with the conditions of authorisation as set out in this document or any other subsequent document emanating from these conditions of authorisation.

Date of environmental authorisation: 17/05/2017



Mr Sabelo Malaza

Chief Director: Integrated Environmental Authorisations
Department of Environmental Affairs

Annexure 1: Reasons for Decision

1. Information considered in making the decision

In reaching its decision, the Department took, *inter alia*, the following into consideration -

- a) The information contained in the EIAR dated February 2017;
- b) The comments received from interested and affected parties as included in the EIAR dated February 2017;
- c) Mitigation measures as proposed in the EIAR dated February 2017 and the EMPr;
- d) The information contained in the specialist studies contained within Appendix D of the EIAR; and
- e) The objectives and requirements of relevant legislation, policies and guidelines, including section 2 of the National Environmental Management Act, 1998 (Act No.107 of 1998).

2. Key factors considered in making the decision

All information presented to the Department was taken into account in the Department's consideration of the application. A summary of the issues which, in the Department's view, were of the most significance is set out below.

- a) The findings of all the specialist studies conducted and their recommended mitigation measures.
- b) The need for the proposed project stems from the aim of enhancing the medium-to-long term viability of KNPS ensuring continued trade and investment and promoting economic growth.
- c) The EIAR dated February 2017 identified all legislation and guidelines that have been considered in the preparation of the EIAR dated February 2017.
- d) The methodology used in assessing the potential impacts identified in the EIAR dated February 2017 and the specialist studies have been adequately indicated.
- e) A sufficient public participation process was undertaken and the applicant has satisfied the minimum requirements as prescribed in the EIA Regulations, 2014 for public involvement.

3. Findings

After consideration of the information and factors listed above, the Department made the following findings -

- a) The identification and assessment of impacts are detailed in the EIAR dated February 2017 and sufficient assessment of the key identified issues and impacts have been completed.
- b) The procedure followed for impact assessment is adequate for the decision-making process.
- c) The proposed mitigation of impacts identified and assessed adequately curtails the identified impacts.
- d) The information contained in the EIAR dated February 2017 is accurate and credible.
- e) EMPr measures for the pre-construction, construction and rehabilitation phases of the development were proposed and included in the EIAR and will be implemented to manage the identified environmental impacts during the construction phase.

In view of the above, the Department is satisfied that, subject to compliance with the conditions contained in the environmental authorisation, the authorised activities will not conflict with the general objectives of integrated environmental management laid down in Chapter 5 of the National Environmental Management Act, 1998 and that any potentially detrimental environmental impacts resulting from the authorised activities can be mitigated to acceptable levels. The environmental authorisation is accordingly granted.