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ENVIRONMENTAL CLOSURE REPORT

FOR THE

CONSTRUCTION OF THE ORIGINAL STEAM GENERATOR INTERIM STORAGE FACILITY (OSGISF) AT KOEBERG NUCLEAR POWER STATION

PREPARED FOR: ESKOM HOLDINGS SOC LIMITED
Koeberg Nuclear Power Station
R27 Off West Coast Road
Melkbosstrand

REPORT NO: ECO/KOE/H&I/05/2021/CLOSURE

DEA EIA REF NO: 14/12/16/3/3/2/947

COPY TO: ESKOM: Willem Van Der Sandt, Deon Jeannes (Nuclear Environmental Manager), Jana Klopper (Power station EO / environmental manager), Jurina Le Roux (Nature reserve EO / manager)
Haw & Inglis Project Team

DATE: 17 May 2021



PROJECT DETAILS

TITLE:	The construction of the Original Steam Generator Interim Storage Facility (OSGISF) at Koeberg Nuclear Power Station on Cape Farm 1552, Duynfontein, Cape Town.
LOCATION:	Koeberg Nuclear Power Station R27 Off West Coast Road Melkbosstrand
ENVIRONMENTAL CONSULTANCY:	Sharples Environmental Services cc.
PRIMARY ECO & AUTHOR:	Ms Betsy Ditcham (Supervising ECO)
EXPERTISE:	<p>Betsy has a Bachelor of Science Honours Degree in Wildlife Management from the University of Pretoria and a Bachelor of Science Degree (Zoology and Ecology) obtained from the University of Cape Town in 2005. She has 9 years' experience in the environmental field, including environmental assessments, legal compliance, on-site compliance monitoring, cleaner production and business greening and sustainability (carbon and environmental footprinting). In her time as a consultant, she has compiled a number of environment assessments and management plans for both private and governmental clients. Betsy is co-owner of SES and is registered with EAPASA (Reg no. 1480)</p>
CLIENT:	ESKOM HOLDINGS SOC LIMITED
REPORT CLASSIFICATION:	Environmental Closure Report.
SES REFERENCE NUMBER:	ECO/KOE/H&I/05/21/CLOSURE

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Section	
1	Introduction

Sharples Environmental Services cc (SES) was appointed by H and I Civil and Building (Pty) Ltd on behalf of *ESKOM HOLDINGS SOC LIMITED* (the client), as the Environmental Control Officer (ECO) to monitor the construction of the Original Steam Generator Interim Storage Facility (OSGISF) at Koeberg Nuclear Power Station (KNPS) on Cape Farm 1552, Duynfontyn, Cape Town. SES were appointed to undertake monitoring inspections for the duration of the contract period, to ensure that measures outlined in the Environmental Management Programme (EMPr) and Environmental Authorisation were implemented and that environmental degradation was kept to a minimum. Subsequently, H and I Civil and Building (Pty) Ltd have cancelled their contract with Eskom, requiring the site to be checked for closure.

This report has been compiled to indicate compliance with the closure conditions of the Environmental Authorisation (EA) issued by the Department of Environmental Affairs (DEA) and the EMPr compiled by *SRK Consulting (South Africa) (Pty) Ltd* (dated November 2016).

Environmental Authorisation was granted by DEA on May 17th, 2017. An application to amend the Environmental Authorisation was submitted by NCC Environmental Services and granted in October 2018.

Section	
2	Description of Activity

Eskom proposes to construct an Interim Storage Facility for the temporary storage of the original steam generators at Koeberg Nuclear Power Station (KNPS) (now referred to as the "project"), thereby ensuring the continued operation of KNPS.

SRK Consulting (South Africa) (Pty) Ltd (SRK) undertook the Scoping and Environmental Impact Reporting (S&EIR) process required in terms of the National Environmental Management Act 107 of 1998, as amended (NEMA). The Environmental Impact Assessment (EIA) Report (SRK Report No.: 478317/06) contains a detailed description of the project and its impacts.

In terms of the National Environmental Management Act, 1998 (Act No.107 of 1998) and the Environmental Impact Assessment Regulations, 2014. The authorisation of the following activities were granted by DEA;

- GN R.983 Activity number 27
- GN R.984 Activity number 3

Section	
3	Location

KNPS is located on a sandy coastline of the West Coast, approximately 27 km north of the Cape Town Central Business District and 1.5 km north of the residential area of Duynfontein (Figure 1). KNPS is situated on Cape Farm Duynfontyn No. 1552 (previously consisting of Farm Duynfontyn No. 34 and Farm No. 1375 which were consolidated by the City of Cape Town in 2015). Access to KNPS is via the R27 which runs along the property's eastern boundary or alternatively via Otto du Plessis Drive. Cape Farm Duynfontyn No. 1552 is owned by Eskom and measures approximately 1 294 ha and is zoned for Risk Industry and Agricultural.

The OSGISF will be located within the Security Protected Area (SPA) of KNPS, a flat area mostly disturbed by previous construction activities and by current operational activities at KNPS.



Figure 1: Locality of Koeberg Nuclear Power Station (site).

Section	
4	Construction work

Construction works were put on hold in November 2020, by the NNR, due to design concerns. No construction occurred between that time and the cancellation of the contract.

Section	
5	Environmental Matters

SES was appointed to undertake a monitoring role in terms of this project. However, due to the contract cancellation, a final Closure site visit and report are now required.

Section	
5.1	Site Rehabilitation and Closure

The EMPr list a number of conditions relating to Site Rehabilitation and Closure. However, as the works are not completed, some of these conditions may no be applicable at this stage and should be covered when construction is finalised.

According to the Contractor, the following agreements were made with the Eskom Project Manager:

- 1) Paving what was the boardroom floor is to stay in place for the Shield panel equipment to be stored on
 - a. The shield panel equipment consists of stainless-steel plates, profiles and steel guide frames for assembly of the panel frames.

- 2) PVC downpipes purchased for the building drainpipes to remain on site.
- 3) Conservancy tank installed to be emptied and remain on site.
- 4) All the reinforcing fixed and in bundles to be marked and remain on site.
- 5) Excavations to remain open with blinding in place.
- 6) Stockpile material and topsoil to remain as it is.
- 7) Fencing around the site belongs to H&I who are awaiting feedback from the PM regarding removal.
- 8) Barricades repaired on site and will now be Eskom's responsibility.

May 2021	COMPLIANCE WITH THE EMPR AND EA		
	Compliance Full/Part/ Non	Comments/ Observations	Action to be taken
<u>TOPSOIL STORAGE</u>			
Stockpile topsoil prior to the commencement of construction activities (stockpile no higher than 2m) and conserve topsoil for rehabilitation.	Full		Eskom to take responsibility for the topsoil stockpiled on site
Replace harvested topsoil in areas that are to be rehabilitated as soon as sections of the works are completed (i.e. not only following the completion of all works)	Full		
<u>SITE REHABILITATION AND CLOSURE</u>			
Remove all construction equipment, vehicles, equipment, waste and surplus materials, including site offices, temporary fencing and other facilities, from the site.	Full	All equipment not agreed upon to remain on site has been removed.	
Clean up and remove any spills and contaminated soil in the appropriate manner.	Full	No evidence of spills or contamination noted	
Ensure that no discarded materials are buried on site or on any other land not designated for this purpose	Full	No evidence of buried materials noted	
Ensure that affected areas are rehabilitated following construction.	n/a		To be conducted once construction has been completed
Rehabilitate areas adjacent to the site (if disturbance is unavoidable) to at least the same condition as was present prior to construction.	n/a		
Use harvested topsoil for rehabilitation following construction.	n/a		
Appoint a suitably qualified professional to undertake or supervise rehabilitation.	n/a		
Rehabilitate all project areas as soon as possible after completion of activities in each area, including removing and/or remediating any contaminated soils.	n/a		
Replace harvested topsoil in areas that are to be rehabilitated as soon as	n/a		



ECO: CONSTRUCTION OF THE ORIGINAL STEAM GENERATOR INTERIM STORAGE FACILITY (OSGISF) AT KOEBERG NUCLEAR POWER STATION

sections of the works are completed (i.e. not only following the completion of all works).

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Section	
6	Conclusion

SES has compiled this Environmental Closure Report to detail compliance with the EA and EMPr for the site inspection conducted on 11 May 2021. No environmental issues were noted and the site can be closed.





Figure 2: Stored shield panel equipment



Figure 3: Stored PVC downpipes



Figure 4: Working area cleared of equipment



Figure 5: Excavations barricaded



Figure 6: Empty conservancy tank



Figure 7: Topsoil stockpiles remaining on site