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DATE:

December 2021

# **ENVIRONMENTAL AUDIT 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/OSGISF/12/2021 **DEA EIA REF NO:** 14/12/16/3/3/2/947

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# **PROJECT DETAILS**

TITLE: The construction of the Original Steam

Generator Interim Storage Facility (OSGISF) at Koeberg Nuclear Power Station on Cape

Farm 1552, Duynefontein, 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)

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)

CLIENT: ESKOM HOLDINGS SOC LIMITED

REPORT CLASSIFICATION: Environmental Monitoring Report

SES REFERENCE NUMBER: ECO/KOE/OSGISF/12/21

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

Section	
1	Introduction

Sharples Environmental Services cc (SES) has been appointed by Trans-Africa Projects (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, Duynefontyn, Cape Town. SES has been 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 are implemented and that environmental degradation is kept to a minimum. This report has been compiled to indicate compliance with 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 17<sup>th</sup>, 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 was 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 Duynefontein (Figure 1). KNPS is situated on Cape Farm Duynefontyn No. 1552 (previously consisting of Farm Duynefontyn 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 Duynefontyn 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 3.1

# Site Camp

The site camp is located directly adjacent to the working area. The site camp consists of a number of office containers, ablution facilities and eating areas.



Figure 2: Site locality within Koeberg Nuclear Power Station.

Section	
4	Construction work

This section highlights and discusses the key construction activities observed during the site inspection.

At the time of the site visit, the working area had been clearly demarcated and construction of the two building foundations had commenced. Building 1 was in the process of being shuttered, with concrete pours anticipated in early January 2022.

Section	
5	Environmental Matters

SES is appointed to undertake a monitoring role in terms of this project and will conduct monthly Environmental visits as per the contract. Ad hoc visits may be conducted, should these be required.

A Designated Environmental Officer will conduct weekly inspections, based on the conditions of the EA and EMPr. The findings of these inspections will be circulated to the ECO for review.

Section	
5.1	Waste Management

Waste separation is evident at the site camp, with the provision of separate waste storage areas. It is understood that waste would be removed to the KNPS designated waste area, with the exception of hazardous waste, which would be disposed of at a licenced landfill site.

Section	
5.2	Vegetation clearance

Search & Rescue was conducted prior to the commencement of clearing activities. A copy of the Search & Rescue report is available on request.

November 2021 COMPL	COMPLIANCE WITH THE EMPR AND EA			
	Compliance Full/Part/ Non	Comments/ Observations	Action to be taken	
<u>S</u>	TE CAMP			
Submit a method statement for Site Camp establishment for approval by ECO at least two weeks prior to the start of construction activities	the Part	Method Statement was not circulated to ECO prior to establishment, however, the site camp is established in a previously disturbed area with no environmental concerns.		
Establish a suitably fenced Site Camp at the start of the contract, which allow for site offices, vehicle, equipment, material and waste storage are to be consolidated as much as possible. Locate the Site Ca at a position approved by the ECO. Provide water and / or washing facilitat the Site Camp for personnel.	eas mp Full			
Demarcate construction site boundaries upon establishment. Control secundaries to the site. Fence off site boundaries to the satisfaction of ECO and ensure that plant, labour and materials remain within boundaries.	the Full			
Designate the area beyond the boundary of the site as No go areas for personnel on site. No vehicles, machinery, materials or people shall permitted in the No-go area at any time without the express permission of RE in consultation with the ECO.	be			
SAFETY & SECURITY				
Ensure that emergency procedures (in relation to fire, spills, contamination the ground, accidents to employees, use of hazardous substances, etc.) established prior to commencing construction.				

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## **November** COMPLIANCE WITH THE EMPR AND EA 2021 Compliance Comments/ Full/Part/ Action to be taken **Observations** Non Make all emergency procedures available, including responsible personnel, contact details of emergency services, etc. to all the relevant personnel. Full Clearly demarcate emergency procedures at the relevant locations around the site. Secure the Site Camp, particularly to restrict unauthorised access to fuels and Full any other hazardous substances. Store all construction material and equipment in locked containers within the Full Site Camp. Provide suitable emergency and safety signage on site, and demarcate any Full areas which may pose a safety risk (including hazardous substances, etc. Advise the ECO of any emergencies on site, together with a record of action Full taken. **EMPLOYMENT** Prioritise the employment of local people Full Procure locally produced goods (plant and materials) and services, where Full possible. Promote on-the-job training wherever possible. Full **ENVIRONMENTAL AWARENESS TRAINING** Provide environmental awareness training to all personnel on site at the start of their employment. Training should include discussion of: □ Potential impact of construction waste and activities on the environment; ☐ Suitable disposal of construction waste and litter; Register of environmental Full ☐ Key measures in the EMPr relevant to worker's activities; and training kept on site ☐ How incidences and suggestions for improvement can be reported. Ensure that all attendees remain for the duration of the training and on completion sign an attendance register that clearly indicates participants'

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November COMPLIAN	COMPLIANCE WITH THE EMPR AND EA		
	Compliance Full/Part/ Non	Comments/ Observations	Action to be taken
names.			
HAZARDOU:	S MATERIALS		
Design and construct hazardous material storage facilities, especially fuel storage, with suitable impermeable materials and a minimum bund containment capacity equal to 110% of the largest container	Full		
Ensure that contaminants (including cement) are not placed directly on the ground (e.g. mix cement on plastic sheeting).	Full		
Avoid unnecessary use and transport of hazardous substances.	Full		
Compile a procedure for the storage, handling and transport of different hazardous materials and ensure that it is strictly adhered to.	Full		
Keep Material Safety Data Sheets for all hazardous materials on site and ensure that they are available for reference by staff responsible for handling and storage of materials	Full		
FLORA MA	NAGEMENT		
Limit the footprint area of the construction activity to what is absolutely essential.	Full		
Designate areas outside the construction footprint as No Go areas.	Full		
Ensure that no vegetation is removed or disturbed outside the delineated construction site boundary	Full		
Confine construction vehicles to designated roadways and strictly prohibit the indiscriminate movement of construction vehicles through vegetation falling outside of the construction / disturbance footprint.	Full		
Prohibit temporary storage of building material or soil within areas of natural vegetation falling outside of the construction footprint	Full		
Remove all alien and weed species encountered within areas disturbed by construction activities:	Full		

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### **November** COMPLIANCE WITH THE EMPR AND EA 2021 Compliance Comments/ Full/Part/ Action to be taken **Observations** Non ☐ Where possible, remove alien species by hand; Keep footprint areas as small as possible when removing alien plant species: and □ Dispose of removed alien plant material at a licensed waste disposal facility. Botanist to be appointed to confirm presence of Species of Conservation Copy of Search & Rescue Full report available in request Concern (SCC) and protected species within the area Rescue and relocation of SCC prior to the commencement of activities. Full Permit must be obtained for the removal / destruction of SCC, indigenous, n/a protected or endangered plant or animal species. **FAUNA MANAGEMENT** Contractor in contact with Do not allow contractors or staff to harm, catch or kill birds or animals by any Full handler snake should means, including poisoning, trapping, shooting or setting of snares. sightings occur. Attempt, as far as possible to flush fauna within the construction footprint towards more suitable habitat within the surrounding areas. Clear vegetation Full towards the security fence line, thereby enabling any fauna to naturally relocate through the fence into the surrounding natural areas. Backfill trenches / excavations as soon as possible to ensure that the time the Full trench is exposed is kept to a minimum. Open trenches / excavations must be inspected on a daily basis for animals Full which may have fallen or become trapped. Safely remove and relocate any fauna that may be physically harmed by Full construction activities. **TOPSOIL STORAGE** Limit construction and lay down areas to areas within the development Full

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### November COMPLIANCE WITH THE EMPR AND EA 2021 Compliance Comments/ Full/Part/ Action to be taken **Observations** Non footprint. Designate and demarcate areas to be used for topsoil stockpiling. Full Remove topsoil (up to a maximum of 30 cm depth) Full Stockpile topsoil prior to the commencement of construction activities Full (stockpile no higher than 2m) and conserve topsoil for rehabilitation. Locate topsoil stockpiles in an area protected from the wind, and agreed to Full with the ECO. 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 Full all works) **CONCRETE / CEMENT WORK** Use Ready-Mix concrete rather than batching where possible. Full Ensure that no cement truck delivery chutes are cleaned on site. Cleaning operations are to take place off site at a location where wastewater can be Full disposed of in the correct manner. If this is not possible a suitable washing facility is to be developed on site in consultation with the ECO. Batch cement in a bunded area within the boundaries of the development No cement currently n/a footprint only (where unavoidable). batched on site. Ensure that cement is mixed on mortar boards / plastic sheeting and not Full directly on the ground (where unavoidable) Physically remove any remains of concrete, either solid, or liquid, immediately Full and dispose of as waste. Place cement bags in bins and dispose of bags as waste to a licensed waste Full disposal facility. Sweep / rake / stack excess aggregate / stone chip / gravel / pavers into Full piles and dispose at a licensed waste disposal facility

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November 2021	COMPLIANCE WITH THE EMPR AND EA			
		Compliance Full/Part/ Non	Comments/ Observations	Action to be taken
	WASTE MAI	NAGEMENT		
Submit a Method St waste).	ratement for waste management (including hazardous	Full		
Aim to minimise wast	e through reducing and re-using (packaging) material.	Full		
Collect recyclables arrange for collection	separately and deliver these to suitable facilities or n.	Full		
Collect all waste in b	ins and/or skips at the construction site	Full	Contractor was awaiting delivery of waste skips	
Prevent littering by co	construction staff at work sites by providing bins or waste ations.	Full		
clearly.	ns for hazardous / polluting materials and mark these polluting materials on impermeable ground until it is ed.	Full		
Dispose of waste app	propriately to prevent pollution of soil and groundwater.	Full		
Do not allow any bur	ning or burying of waste on site.	Full		
	CONTAMINATED WATER	RUN-OFF MAN	<u>AGEMENT</u>	
	of any pollutants, such as cements, concrete, lime, her contaminated wastewater and fuels into the	Full		
	uel/workshop/equipment washing areas and concrete cy tanks to be disposed of at a site approved by the	Full		
· · ·	sand trays under engines of vehicles or mechanical rked or stored overnight or longer.	Full		
Clean up any hydr	ocarbon spills immediately, through containment and	n/a	No spills noted during the	

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November 2021	COMPLIANCE WITH THE EMPR AND EA			
		Compliance Full/Part/ Non	Comments/ Observations	Action to be taken
removal of free prod waste disposal facilit	luct and dispose of contaminated material at a licensed y.		site inspection	
	STORMWATER	MANAGEMENT		
Collect stormwater f from the site for appr	rom bunded areas in a suitable container and remove ropriate disposal.	Full		
Use berms and storm entering site excavar	nwater drainage systems to prevent surface run-off from tions.	Full		
Implement measures	to maximise the infiltration of stormwater on site.	Full		
Install temporary cut- entering the construc	off drainage channels to prevent stormwater runoff from ction footprint	Full		
Implement the Storm	water Management Plan.	Full		
	EROSION MA	ANAGEMENT		
	and tracks used for construction have the appropriate sion control structures.	Full		
	to drier summer months, if possible, to avoid erosion of dimentation of surrounding habitats.	Full		
	AIR QUALITY A	MANAGEMENT		
Avoid clearing of earthworks)	vegetation until absolutely necessary (i.e. just before	Full		
Stabilise exposed sur	faces as soon as is practically possible	Full		
	and handling and transport of materials which may be referred to the result of the res	Full		
·	ated off stockpiles: Itered areas where possible; e lengthwise into the wind;	Full		

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## November COMPLIANCE WITH THE EMPR AND EA 2021 Compliance Comments/ Full/Part/ Action to be taken **Observations** Non ☐ Minimise the slope of the stockpile (maximum slope of 2:1); ☐ Limit stockpile sizes; □ Install barriers on three sides of the stockpile (maximum 50% material porosity) if required; ☐ Limit activity to the downwind side of the pile; ☐ Use the last in – first out system of stockpile management; and Cover stockpiles when not in active use for some time and / or use an environmentally friendly chemical spray to bind soil. Reduce airborne dust at construction sites through: □ Dampening dust-generating areas with freshwater; and Full Covering dumps or stockpiles of loose material with plastic sheeting or netting, especially during windy conditions. Limit vehicle speeds to 20 km/h on unconsolidated and non-vegetated Full areas. Cover trucks transporting loose material to or from site with tarpaulins, plastic Full or canvas. Ensure that any material spilled from trucks during transport to or from the site Full is cleaned up immediately. Use bedliners to minimise seepage and spillage of material from bottom-Full dumping trucks Pre-water material to be moved, if possible. Full Check weather reports daily and closely observe weather patterns to enable Full action to be taken immediately if conditions change. Wash wheels of vehicles before vehicles exit the site to ensure that dust is not carried off-site. Use manual or automated sprayers and / or drive-through n/a wheel washing bays. Limit the number of vehicles allowed on-site and restrict the movement of Full

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## **November** COMPLIANCE WITH THE EMPR AND EA 2021 Compliance Comments/ Full/Part/ Action to be taken **Observations** Non these vehicles over unsurfaced or unvegetated areas once they are on site to reduce dust problems. Sweep roads leading from the site if wheel washing facilities do not Full effectively prevent mud being deposited on access roads. Sweep roads at site entrance and exit points regularly, to prevent the spread Full of mud / dust by construction vehicles Maintain all generators, vehicles, vessels and other equipment in good Full working order to minimise exhaust fumes. Respond rapidly to complaints and take appropriate corrective action. Full **NOISE MANAGEMENT.** Limit noisy construction activities to day-time from Monday to Saturday or in Full accordance with relevant municipal bylaws, if applicable. Comply with the applicable municipal and / or industry noise regulations. Full Notify adjacent residents before particularly noisy construction activities will No adjacent affected n/a residents take place Maintain all generators, vehicles, vessels and other equipment in good Full working order to minimise excess noise. Enclose diesel generators used for power supply on site to reduce Full unnecessary noise. Respond rapidly to complaints and take appropriate corrective action Full FIRE MANAGEMENT Ensure that no fires are permitted on or adjacent to the site. Full Ensure that no smoking is permitted on the site Full Ensure that sufficient fire-fighting equipment is available on site. Full Equip all fuel stores and waste storage areas with fire extinguishers Full

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		Compliance Full/Part/ Non	Comments/ Observations	Action to be taken	
Ensure that all personnel on site are aware of the location of firefighting equipment on the site and how the equipment is operated.		Full			
Suitably maintain firefighting equipment		Full			
	TRANSPORTATION	AND REFUELLI	<u>NG</u>		
Undertake regular maintenance of vehicles and machinery to identify and repair minor leaks and prevent equipment failures.		Full			
Undertake any on-site refuelling and maintenance of vehicles/machinery in designated areas. Line these areas with an impermeable surface and install oil traps.		Full			
Use appropriately sized drip trays for all refuelling and/or repairs done on machinery – ensure these are strategically placed to capture any spillage of fuel, oil, etc		Full			
Clean up any spills immediately, through containment and removal of free product and dispose of contaminated material at a licensed waste disposal facility.		n/a	No spills noted during the site inspection		
Keep spill containment and clean-up equipment at all work sites and for all polluting materials used at the site.		Full			
	PROTECTION OF ARCHAEOLOGICAL	AND PALEONTO	DLOGICAL RESOURCES		
Empower staff to stop works on (chance) discovery of artefacts at the site.		Full			
Report the presence of graves or human remains, fragments of fossil bone, ostrich egg and stone fragments to Heritage Western Cape (HWC) or a suitably qualified archaeologist.		n/a	No graves or human remains, fragments of fossil bone, ostrich egg and stone fragments found during excavation		
Agree on suitable mitigation with HWC or the archaeologist.		n/a			
Obtain a permit for the removal of artefacts from the site if any are		n/a			

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November 2021	COMPLIANCE WITH THE EMPR AND EA				
		Compliance Full/Part/ Non	Comments/ Observations	Action to be taken	
discovered during construction.					
	TRAFFIC MA	NAGEMENT			
Manage construction sites and activities so as to minimise impacts on road traffic as far as possible, e.g.:  Attempt to arrange delivery of materials when it will least disrupt traffic;  Stagger deliveries if possible rather than concentrating them during "rush" hours; and  Keep construction materials and machinery at the construction site throughout the construction period, where possible.  Ensure that large construction vehicles are suitably marked to be visible to other road users and pedestrians.  Ensure that all safety measures are observed and that drivers comply with the rules of the road.  Ensure that vehicle axle loads do not exceed the technical design capacity of roads utilised by the project.		Full Full Full Full			
investigate and response	ond to complaints about traffic.  VISUAL A	-			
Control litter and kee	ep construction site as clean and neat as possible.	Full			
Avoid excavation, handling and transport of materials which may generate dust under high wind conditions.		Full			
Keep construction sites tidy and all activities, material and machinery contained within an area that is as small as possible.		Full			
Minimise the use of night-lighting.		Full			
	RESPONSE TO ENVIRO	NMENTAL POLL	UTION		
In the event of environmental pollution, e.g. through spillages, immediately		Full			



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## November **COMPLIANCE WITH THE EMPR AND EA** 2021 Compliance Comments/ Full/Part/ Action to be taken **Observations** Non least the same condition as was present prior to construction. Use harvested topsoil for rehabilitation following construction. n/a Appoint a suitably qualified professional to undertake or supervise n/a rehabilitation. Rehabilitate all project areas as soon as possible after completion of activities in each area, including removing and/or remediating any contaminated n/a soils. 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 n/a all works).



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Section	
7	Conclusion

SES has compiled this Environmental Monitoring Report to detail compliance with the EA and EMPr for the site inspection conducted on 23 December 2021. No environmental issues were noted and construction should continue to be undertaken in compliance with the EA and EMPr.

