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DATE:

July 2021

ENVIRONMENTAL AUDIT REPORT

FOR THE

EXTENSION OF A CAR PARK AT KOEBERG NUCLEAR POWER STATION ON CAPE FARM 1552, DUYNEFONTYN, CAPE TOWN.

PREPARED FOR: ESKOM HOLDINGS SOC LIMITED

Koeberg Nuclear Power Station R27 Off West Coast Road

Melkbosstrand

REPORT NO: ECO/Koe/07/2021

DEA EIA REF NO: 14/12/16/3/3/1/1687

COPY TO: ESKOM: Deon Jeannes (Nuclear Environmental Manager), Jana Klopper (Power station EO /

environmental manager), Tshililo Ramaru (Nuclear Environmental Manager), Jurina Le Roux (Nature reserve EO / manager), Melvin van Rooyen, Ilse Coop (Safety, Health and Environmental Coordinator)

GRIDBOW: Project Team



Environmental Impact Assessments - Basic Assessments - Environmental Management Planning

[•] Environmental Control & Monitoring • Water Use License Applications • Aquatic Assessments

PROJECT DETAILS

TITLE:

The extension of a car park at Koeberg Nuclear Power Station on Cape Farm 1552, Duynefontyn, Cape Town.

LOCATION:

Koeberg Nuclear Power Station R27 Off West Coast Road Melkbosstrand

ENVIRONMENTAL CONSULTANCY:

Sharples Environmental Services cc.

PRIMARY ECO & AUTHOR:

Mr Lloyd Barnes (ECO)

EXPERTISE:

Lloyd has a Bachelor of Technology Degree and Diploma in Environmental Management from the Cape Peninsula University of Technology in 2016. He has 3 years' experience in the environmental field, including the extensive auditing of several open-cast mines, basic environmental assessments, on-site compliance monitoring, environmental management plans, maintenance management plans and business sustainability. In his time as a consultant, he has compiled a number of environment audits and management plans for a range of developments.

CHECKED AND APPROVED BY:

Ms Betsy Ditcham (Supervising ECO)

EXPERTISE:

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 environmental and 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 Audit Report

SES REFERENCE NUMBER:

ECO/Koe/07/21

Contents

4
4
5
6
<i>6</i>
16
17
5
5
6

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Section	
1	Introduction

Sharples Environmental Services cc (SES) has been appointed by Gridbow Engineers & Technical Services on behalf of ESKOM HOLDINGS SOC LIMITED (the client), as the Environmental Control Officer (ECO) to monitor the construction of a new car park 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) 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) the EMPr compiled by Advisian (dated 5th of May 2017).

Environmental Authorisation was granted by DEA on July 11th, 2017.

Section	
2	Description of Activity

The proposed project is a two Phased project. Phase 1 included the maintenance of the entrance road off the R27 towards ACP1. Phase 2 encompasses the expansion of the existing car park area.

KNPS performs a refuelling outage approximately every 18 months on each unit (i.e. between one and two outages per year). The outage duration is between 1 and 3 months depending on the work scope. The current car park facilities are inadequate to support the additional outage workforce.

Additionally, to ensure continued operation of the KNPS until 2045, major refurbishment and maintenance of the facility and its associated infrastructure is a necessity. During these major planned maintenance periods, even higher numbers of additional staff and contractors are required on site for the successful completion of these activities. To accommodate the increase in staff and contractor numbers during these outage periods, Eskom has proposed an extension to an existing car park located on the KNPS site (Refer to Figure 2). This project will therefore be a direct extension of the existing parking area and will comprise of both paved and gravel parking bays. The gravel parking bays will cater for any overflow, especially when there is an overlap in shifts.

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.985 Activity number 12

Section	
3	Location

The construction is proposed on the following farm:

• Cape Farm Duynefontein No 1552, portion 0



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



Figure 2: Site locality within Koeberg Nuclear Power Station.

Section 3.1

Site Camp

The main site camp is situated within the existing car park (33° 40' 26.84""S, 18° 26' 11.39""E), a temporary site camp was located along the entrance road (33° 40' 37.12"S, 18° 27' 12.8"E) during the early phases of the project. The temporary site camp situated along the entrance road was located on ground that was previously disturbed.

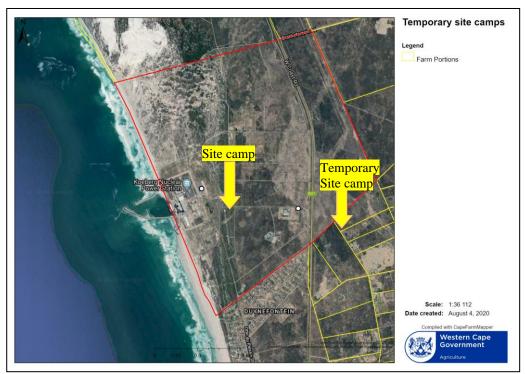


Figure 3: Location of site camp.



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

The construction activites are now within Phase 2 of the construction program. At the time of the site visit (14 July 2021), the ECO noted that the following construction activities have taken place:

- Area proposed for clearance had been cleared of vegetation.
- The first layers of concrete base layed.
- The curb constructed and infilled.
- The laying of paving was approximately 80% complete.

Section	
5	Environmental Matters

SES will conduct frequent Environmental visits as per the contract. SES is therefore appointed to undertake a monitoring role in terms of this project.

Section	
5 1	

Waste Management

5.1.1 General waste

An integrated waste management approach has been adopted within the site camp and sufficient bins have been made available.

A record for all waste generated, stored, recycled and disposed of has been created and stored within the Environmental file on site.

Hazardous waste is currently being stored within a secure, demarcated area, within the site camp and on an impermeable surface.

Section
5.2

Vegetation clearance

Construction and clearance activites limited to approved area (as per the Environmental Authorisation), as confirmed by Eskom Safety, Health and Environmental Coordinator.

July 2021 COMPLIANCE WITH	THE EMPR, MI	ETHOD STATEMENTS AND) EA
	Compliance		
	Full/Part/		
	Non	Comments/	Action to be taken
	14 July	Observations	
	2021		
<u>S</u>	TE CAMP		
The site camp and associated areas should be adequately fenced off along the boundaries of these areas, preferably with 2m high fence and shade netting or Bonnox fencing or similar.	Full		
All construction related materials must be stored within a designated area within the site camp. Where necessary, materials must be adequately protected from the sun, rain and wind.	Full		
Toilets in an orderly state, serviced regularly.	Full		
Records (Receipts) of the servicing of these chemical toilets by a specialist toilet hire company must be collected on a weekly basis and maintained on the site file.	Full		
Toilets are secured and on a level surface, out of any surface water drainage lines.	Full		
Adequate signage present designating the site camp as a restricted area and relative dangers.	Full		
At least 1 fire extinguishers and rubber beaters present. Fire extinguishers should be in working condition and recently serviced.	Full		
Fuels, chemicals, lubricants and other hazardous substances stored in a demarcated, secured and clearly sign-posted area.	Full		
An adequate supply of sanitary services and potable water must be provided to workers.	Full		

A designated area for food storage, preparation and consumption is to be provided. A dedicated area within which construction workers can rest and eat during breaks must be provided is established.	Full	
The site camp and related site camp facilities are kept neat and orderly.	Full	
	SITE	
Appropriate signage erected to warn other road users about the presence of construction vehicles.	Full	
The total extent of the proposed works and all no-go areas (i.e. Koeberg Nature Reserve) must be clearly demarcated with some form of fencing.	Full	
An appropriate perimeter fence must be erected around the works area.	Full	
The movement of people and the operation of vehicles is not prohibited outside of the demarcated working area or on existing routes.	Full	
All open excavations are to be adequately barricaded.	Full	
Topsoil spoil material is stored separately from the overburden. In the absence of a recognisable topsoil layer, strip the upper most 300 mm of soil where possible.	Full	
Stripped areas and stockpiles are not to be left exposed for prolonged periods of time.	Full	
No stripping of topsoil during or after rains.	Full	
Stripped vegetation is to be stored with topsoil.	Full	
The existing bunded batching plant on the KNPS site should be utilised (if ready mix trucks are not available to pour cement directly).	Full	
Stockpiles of earth material not located within any storm-water drainage pathways and is outside of the reach of potential flood waters.	Full	
Any erosion runnels/ gullies/ channels that form are infilled with appropriate material, compacted, rehabilitated as needed	Full	
An adequate number of toilets is to be provided (ratio of 1 toilet per 15 users)	Full	
Portable chemical toilets are to be adequately anchored down	Full	

ECO. EXTENSION OF A CAR PARK AT ROEBERG NOCLEAR POWER STATION ON CAFE PARK	. 2002, 201112. 01	
Toilets are not located in or near (within 32m of) any water body, including the effluent outlet canal, and are outside of any storm water drainage lines.	Full	
Materials, fuels and other chemicals and hazardous substances are stored according to the manufacturers' product-storage requirements.	Full	
Material Safety Data Sheets (MSDSs) are available on site for all chemicals and hazardous substances to be used on site.	Full	
No open fires on site. (Or evidence of fires)	Full	
A functioning water truck or cart is to be present on site.	Full	
At least 1 fire extinguishers and rubber beaters present. Fire extinguishers should be in working condition and recently serviced.	Full	
All invasive and exotic plants located within and directly surrounding the car park are to be identified, located and mapped in order to eradicate.	ТВС	
If any archaeological or palaeontological material or human burials are uncovered, work in the immediate area should be halted. The find would need to be reported to the heritage authorities.	Full	
A fire extinguisher should always be present wherever any "hot works" (e.g. welding, grinding etc.) are taking place.	Full	
Hot works that may generate sparks should be properly contained or avoided during strong windy conditions to prevent wind-blown sparks that may cause fires at other locations.	Full	
Smoking should ideally not be allowed on the construction site. Smoking must be prohibited in areas where it may pose a safety risk – e.g. in the vicinity of fuel storage areas.	Full	A smoking area has been demarcated and allocated to an area deemed safe. Smoking area approved by Site manager and ECO, as per the EMPr. Signage and sand bucket present. No vegetation or fuel present in the vicinity.
Stockpiles are not to exceed 2m in height or in drainage lines.	Full	
The contact number for the local firefighting service and all relevant emergency numbers must be prominently displayed on site.	Full	

Ensure that Personal Protection Equipment (PPE) is worn by Construction Staff at all times.	Full		
<u>FRESHWA</u>	TER RESOURC	<u>CES</u>	
The ECO is to be notified before any trenching through drainage lines if required.	Full		
TRAFFIC AND	VEHICLE CO	NTROL	
Repairs and/or basic maintenance of construction vehicles or equipment undertaken within the designated maintenance yard area, on an impermeable surface, and/or with a tarpaulin and/or drip tray laid down	Full		
Vehicles, machinery and other equipment is in good working order.	Full		
Construction vehicles are to maintain a low speed when driving. The speed limit should be set at 35km/h for vehicles driving past ACP 1 and 50km/h before ACP 1.	Full		
Make use of mobile plant and equipment which is appropriate to the task in order	Full		
The movement of heavy vehicles that have the potential to obstruct traffic should be scheduled to occur outside of peak traffic times as far as possible, so as not to exacerbate traffic congestion.	Full		
TOPSOIL AND SI	JBSOIL MANA	AGEMENT	
Topsoil from within the car park extension footprint should be stripped to a depth of 300 mm.	Full		
Topsoil is to be handled twice only – once to strip and stockpile, and once to replace and level.	Full		
Topsoil from within the car park extension footprint should be stored within the approved locations indicated on the Construction Plan	Full		
Stockpiles are to be located on the higher side of a disturbed area, and above a 1:50 year flood line.	Full		
The topsoil stored stockpile must be adequately protected from being blown away or eroded by storm water.	Full		
Where possible, soil stockpiles should be kept clear of weeds and alien vegetation growth by regular weeding, (or application of herbicides if agreed with the landscaper and/or ECO).	Full		

Topsoil that is stockpiled for prolonged periods of time is to be revegetated or covered appropriately. Topsoil to be the final layer applied to the top of the site, and not used as a base or mixed / buried with other materials. POLLUTION PREVENTION Drip trays are utilised during decanting of hazardous substances and when refilling chemical/ fuel storage tanks. Fuel stored at temporary depots must be located within a bunded area, or alternatively in an area underlain by heavy duty PVC sheeting and covered with 100 mm of sand.
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covered with 100 mm of sand.
Fuel stored at long term depots must be located within a designated
bunded area, underlain by a concrete slab, sloped towards an oil sump
for spillage removal. The bund must be able to accommodate 110% of the
full volume of one of the containers.
An impervious surfacing must be placed adjacent to fuel tanks, upon
which vehicles must park during refuelling.
Drip trays placed under generators (if used on site) water pumps and any Full
other machinery on site that utilises fuel/ lubricant.
A spill kit to neutralise/treat spills of fuel/oil/ lubricants is available on site.
Appropriate training completed.
A tarpaulin and/or drip trays must be laid down prior to emergency repairs
taking place, to prevent any fuel/ oil/ lubricant spillages from Full
contaminating the environment.
Chemical spills are to be contained and isolated in accordance with
section 5.3.2 of the EMPr. Clean-up/control is to be organised by the Full
supplier.
An oil spill kit (i.e. DRIZIT wheely bin) must be allocated to the site in the
advent of a hydrocarbon spill onto exposed soil.
No depot or containers with any hazardous substance is to be located Full
within the vegetation line of the Koeberg Nature Reserve.
Dumping of waste or foreign material is strictly prohibited within the Full
Koeberg Nature Reserve.
Sufficient stormwater control is required to prevent the discharge of water Full

Into the Kacterig Nature Reserve area. Accidental full baylish or leakages are to be immediately cleaned up using the method autlined within section 5.3.4 of the EMPr Wash water from wash bays and water/stury from ement and concrete mixing operations is to be contained Waste water is to be directed towards a settlement pond or similar for later disposal. Washing of vehicles and machinery is to take place within designated wash boys. Washing of vehicles and machinery is to take place within designated wash boys. Waste water is to be directed towards a settlement pond or similar for later fixposal. Washing of vehicles and machinery is to take place within designated wash boys. Waste wash of the properties wash on site. Waste wash and tarpaulin must be emptiled and/or disposed of in the facurations waste bins or skips kept in a demarcated area on an impermeable surface. Waste blaced in the appropriate waste bins/skips. Separate bins/skips provided for rubble, green waste, recyclobles, general waste and hazardous waste bins kept on an impermeable bunded surface capable of holding at least 110% of the valume of the bins. Sieps bins provided with secure lids or covering that will prevent scavenging provided with secure lids or covering that will prevent scavenging and windblown waste. Rubble and waste rock must be disposed of at the nearest registered municipal solid waste disposal facility. All waste collections give (Woyblils) kept on file. Hazardous waste bins kept on site is present on site. Full A record of all hazardous waste stored on site is present on site. Full Soli contaminated by hazardous substances is excavded and disposed of a hazardous waste. Full Waste may not be burned or buried on site. No evidence of waste burnt on site. Records of all waste generated, received, received, received and recycled are to full.	is to the Wards are National December Station on Cape Farin	1 1332, DOTNEFOR	TEN CAPE TOWN	1
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be kept on site.		
CEMENT AND	CONCRETE BATCHING	<u>3</u>
Cement and concrete mixing is to be limited to single sites.	Full	
Cement and concrete may not be mixed on open ground.	Full	
All visible remains of excess cement and concrete must be disposed of in the approved manner.	Full	
Unused cement bags must be stored in such a way that they will be protected from rain.	Full	Unused cement bags stored within a secure container, within the site camp.
Empty cement bags must be disposed of in the hazardous waste bins on site.	Full	
NOI:	SE CONTROL	
Noise-levels comply with the relevant health and safety regulations and SANS codes and is monitored by the Health & Safety Officer, as appropriate.	Full	
Eskom personnel working at the KNPS must be informed by the Contractor of construction working hours and of any other activity that may cause a nuisance.	Full	
Vehicles, machinery and other equipment must is kept in good working order.	Full	
No loud music is permitted on site.	Full	
DUS	T CONTROL	
Construction and clearing activities do not take place during heavy rains, or windy conditions.	Full	
Stockpiles of topsoil & spoil material are protected from wind & water erosion.	Full	
Cleared areas are provided with a suitable cover as soon as possible, and not left exposed for extended periods of time.	Full	
Material loads are properly covered during transportation.	Full	
Dust must be suppressed on access roads and construction sites during dry periods by the regular application of water or a biodegradable soil	Full	

stabilisation agent. Water is not to be sourced from Koeberg Nature	-	
Reserve		
EROSION CONTROL AN	D STORMWATI	ER MANAGEMENT.
Land clearing, earthworks and construction activities must be restricted to within the footprint of the demarcated working area, to prevent unnecessary disturbance, compaction or exposure of surrounding earth surfaces.	Full	Construction activites limited to approved area (as per the Environmental Authorisation), as confirmed by Eskom Safety, Health and Environmental Coordinator.
Where possible, land clearing and earthworks should be avoided during strong winds or heavy rains, as this may exacerbate erosion and soil loss.	Full	
Stripped areas do not remain uncovered for extended periods of time.	Full	
CLEARING	OF VEGETAT	<u>ION</u>
Only the area required to accommodate construction activities within the working area is cleared of surface covering.	Full	Construction activites limited to approved area (as per the Environmental Authorisation), as confirmed by Eskom Safety, Health and Environmental Coordinator.
All land-clearing activities must be restricted to within the demarcated working area. NO clearing of vegetation may occur outside of the demarcated footprint and NO vegetation may be cleared from within the no-go areas.	Full	

Section	
6.1	

Fining system

6.1 Fines

As per the approved EMPr, fines may be issued by the appointed ECO for the transgressions listed below. The ESKOM Project/Site Manager will inform the responsible Contractor of the contravention and the amount of the fine, and will deduct the amount from monies due under the Contract.

Α	Any person, vehicles, plant, or thing related to the Contractors	R 4000
	operations within the designated boundaries of a "no-go" area (i.e.	
	within a natural area in the Koeberg Nature Reserve).	
В	Any vehicle driving in excess of designated speed limit on the KNPS	R 1000
	property (50km/h, and 35km/h past Access Control Point 1)	
С	Any vehicle being driven, and items of plant or material being parked	R 2000
	or stored outside the demarcated boundaries of the site	
D	Any person walking outside the demarcated boundaries of the site	R 500
E	Persistent and un-repaired oil leaks from machinery. The use of	R 3000
	inappropriate methods of refueling such as the use of funnel rather	
	than a pump.	
F	Litter of site	R 1000
G	Deliberate lighting of illegal open fires on site	R 5000
Н	The eating of meals on site outside the defined eating areas.	R 1000
	Individuals not making use of the site ablution facilities.	
I	Dust or excess noise on or emanating from the site.	R 1000
J	Any person, vehicle, item of plant, or anything related to the	R 2000
	Contractors operation causing a public nuisance.	

The following penalties are suggested for transgressions:

	9.	•
Α	Erosion	A penalty equivalent in value to the cost of rehabilitation
		plus 20%
В	Oil spills	A penalty equivalent in value to the cost of
С	Damage to indigenous vegetation	A penalty equivalent in value to the cost of restoration plus 20%
D	Damage to sensitive environments	A penalty equivalent in value to the cost of restoration plus 20%
E	Damage to cultural sites	A penalty to a maximum of R100 000 shall be paid for any damage to any cultural/historical sites

Section	
7	Conclusion

SES has compiled this Environmental Monitoring Report to detail compliance with the EA and EMPr for the site inspection conducted on the 14th of July 2021. The majority of the activities undertaken within the site camp and site were deemed to be compliant with the conditions noted within the approved EMPr and EA.

Section 8

Photo record

Site visit-14 July 2021



Image 1: Alternate entrance point



Image 4: Demarcated waste storage area within the site camp



Image 2: Site notices at the site camp

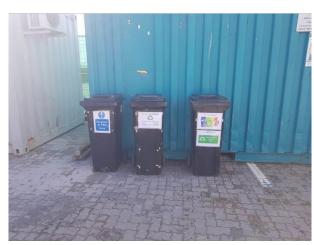


Image 5: Labelled waste recepticals within the site camp



Image 3: Site camp in an orderly state



Image 6: Spill kit within the site camp



Image 7: Temporary entrance point constructed



Image 10: Completed paved parking area



Image 8: Stockpile on site, along the perimeter fence



Image 11: Demarcation along excavated trench



Image 9: Undemarcated trench on site



Image 12: Excavated trench and adjacent topsoil stockpiles



Image 13: Materials stored on site



Image 14: Generator in use with a drip tray and fire extinguisher



Image 15: Proof of waste slips within the environmental file