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August 2020

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ENVIRONMENTAL AUDIT REPORT

FOR THE

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

PREPARED FOR: ESKOM HOLDINGS SOC LIMITED DATE:

Koeberg Nuclear Power Station R27 Off West Coast Road

Melkbosstrand

REPORT NO: ECO/Koe/07/2020 **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), Jurina Le Roux (Nature reserve EO / manager)

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 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 Audit Report.

SES REFERENCE NUMBER:

ECO/Koe/07/20

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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 includes 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 was granted by DEA;

- GN R.983 Activity number 27
- GN R.985 Activity number 12



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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.

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Section 3.1

Site Camp

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

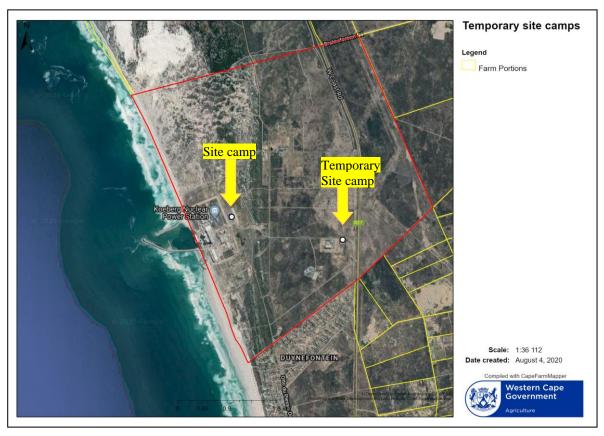


Figure 3: Location of site camp.

Section	
4	Construction work

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

Minor construction activities were noted during the first phase of the construction period. Various road repairs were being conducted and an area stripped for road widening.

Section	
5	Environmental Matters

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

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Section	
5.1	

Waste Management

5.1.1 General waste (Site camp)

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

No litter or loose waste was noted by the ECO. The site was seen to be neat and tidy.

Section 5.2

Vegetation clearance

The clearance of vegetation has been limited to the working area with sufficient demarcation in place.









29 July COMPLIANCE WITH THE EMPR, METHOD STATEMENTS AND EA				
2020				
	Compliance			
	Full/Part/	Comments/	Action to be taken	
	Non	Observations		
	29 July 2020			
SITE C	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.	N/A	Contractor to confirm		
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.	Full			

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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		
SIT	E		
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	Readymix trucks currently utilised	
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		
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	Full		

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according to the manufacturers' product-storage requirements.				
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.	N/A	This will be done prior to the start of Phase 2.		
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			
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			
FRESHWATER	RESOURCES			
The ECO is to be notified before any trenching through drainage lines if required.	Full			
TRAFFIC AND VEHICLE CONTROL				
Repairs and/or basic maintenance of construction vehicles or equipment undertaken within the designated maintenance yard area, on an	Full			



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impermeable surface, and/or with a tarpaulin and/or drip tray laid down	
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 SUBSO	DIL MANAGEMENT
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.	Full
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	Full
POLLUTION P	REVENTION
Drip trays are utilised during decanting of hazardous substances and when refilling chemical/ fuel storage tanks.	Full
Fuel stored at temporary depots must be located within a bunded area, or	Full

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alternatively in an area underlain by begun duty DVC sheeting and severed		
alternatively in an area underlain by heavy duty PVC sheeting and 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	Full	
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	Full	
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.	1 011	
A spill kit to neutralise/treat spills of fuel/ oil/ lubricants is available on site.	Full	
Appropriate training completed.	1 011	
A tarpaulin and/or drip trays must be laid down prior to emergency repairs		
taking place, to prevent any fuel/ oil/ lubricant spillages from contaminating	Full	
the environment.		
Chemical spills are to be contained and isolated in accordance with section	Full	
5.3.2 of the EMPr. Clean-up/control is to be organised by the supplier.	FUII	
An oil spill kit (i.e. DRIZIT wheely bin) must be allocated to the site in the	FII	
advent of a hydrocarbon spill onto exposed soil.	Full	
No depot or containers with any hazardous substance is to be located within	5.11	
the vegetation line of the Koeberg Nature Reserve.	Full	
Dumping of waste or foreign material is strictly prohibited within the Koeberg		
Nature Reserve.	Full	
Sufficient stormwater control is required to prevent the discharge of water		
into the Koeberg Nature Reserve area.	Full	
Accidental fuel spills or leakages are to be immediately cleaned up using the		
method outlined within section 5.3.4 of the EMPr	Full	
Wash water from wash bays and water/slurry from cement and concrete		
mixing operations is to be contained	Full	
Waste water is to be directed towards a settlement pond or similar for later		
disposal.	Full	
Washing of vehicles and machinery is to take place within designated wash		
,	Full	
bays.		



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Drip trays and soiled tarpaulin must be emptied and/or disposed of in the			
hazardous waste bin on site.	Full		
WASTE MAN	AGEMENT		
Dedicated waste bins or skips kept in a demarcated area on an	Full		
impermeable surface.	1 011		
Waste placed in the appropriate waste bins/skips.	Full		
Separate bins/skips provided for rubble, green waste, recyclables, general waste and hazardous waste.	Full		
Hazardous waste bins kept on an impermeable bunded surface capable of holding at least 110% of the volume of the bins.	Full		
Skips/ bins provided with secure lids or covering that will prevent scavenging and windblown waste.	Full		
Rubble and waste rock must be disposed of at the nearest registered municipal solid waste disposal facility. All waste collections slips (Waybills) kept on file.	N/A	Contractor to confirm.	
Hazardous waste disposed of at a licensed hazardous facility (i.e. Visserhok site).	N/A	Contractor to confirm.	
A record of all hazardous waste stored on site is present on site.	N/A	Contractor to confirm.	
Soil contaminated by hazardous substances is excavated and disposed of as hazardous waste.	Full		
Waste may not be burned or buried on site.	N/A	Contractor to confirm.	
Records of all waste generated, received, recovered and recycled are to be kept on site.	N/A	Contractor to confirm.	
Cement and Con	i <mark>crete Batc</mark> h	ning	
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		
Empty cement bags must be disposed of in the hazardous waste bins on site.	Full		
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NOISE C	ONTROL		
Noise-levels comply with the relevant health and safety regulations and SANS	OHIKOL		
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		
DUST CO	ONTROL		
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 stabilisation agent. Water is not to be sourced from Koeberg Nature Reserve	Full		
EROSION CONTROL AND ST	ORMWATER MA	ANAGEMENT.	
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		
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	VEGETATION		
Only the area required to accommodate construction activities within the working area is cleared of surface covering.	Full		
All land-clearing activities must be restricted to within the demarcated working area. NO clearing of vegetation may occur outside of the	Full		

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demarcated footprint and NO vegetation may be cleared from within the		
no-go areas.		



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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		
A				
	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			
	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:

	0.	•
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	A penalty equivalent in value to the cost of restoration
	vegetation	plus 20%
D	Damage to sensitive	A penalty equivalent in value to the cost of restoration
	environments	plus 20%
Е	Damage to cultural	A penalty to a maximum of R100 000 shall be paid for any
	sites	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 31st of June 2020. The contractor must ensure that the environmental issues listed above are attended to and construction is undertaken in compliance with the EA and EMPr. The ECO will ensure to follow-up on the above-mentioned issues during the next scheduled site inspection



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Section 8

Photo record

Pre-construction Site visit-1 July 2020



Image 1: Site camp



Image 4: Site camp ablutions



Image 2: Site camp and visual screen



Image 5: Site camp offices and sanitation station



Image 3: Site camp signage



Image 6: Area proposed for clearance for car

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park expansion



Image 7: Area to be cleared for car park expansion



Image 8: Area to be cleared for car park expansion



Image 9: Area to be cleared for car park expansion



Image 10: Fence line in area to be cleared for car park expansion



Image 11: Area proposed for road widening



Image 12: Area proposed for road widening

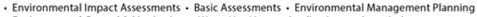








Image 13: Area to be cleared for road widening



Image 14: Parking area to be relayed





Image 16: Vegetation along R27 corner to be



Image 17: Area along R27 corner turn into Koeberg



Image 18: Repair to internal asphalt road marked

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cleared



Image 19: Repair to internal asphalt road marked

29 July- Site visit



Image 20: Spill kit within temporary site camp

to be widened



Image 21: Separate waste receptacles for waste labelled accordingly



Image 22: Signage at temporary site camp informing public of

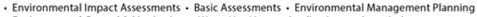








Image 23: Sanitation station at temporary site camp



Image 24: Drinking water at temporary site camp



Image 25: Ablutions at temporary site camp







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Image 26: Material storage at temporary site camp

Image 29: Stockpiling area

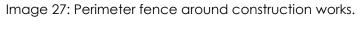




Image 30: Topsoil stockpile

Image 28: Stockpiles on site



Image 31: Separation of spoil material.



Image 32: Stripped area



Image 33: Stripped area and perimeter fence



Image 34: Road signage along internal Koeberg road

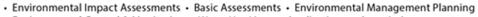








Image 35: Road signage along internal Koeberg road



Image 36: Fire extinguisher on site



Image 37: Drinking water on site

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Image 38: Hazardous waste receptacle on site



Image 39: Waste receptacle on site

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