



## environmental affairs

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

### APPLICATION FORM FOR ENVIRONMENTAL AUTHORISATION

|                        | (For official use only)     |
|------------------------|-----------------------------|
| File Reference Number: |                             |
| NEAS Reference Number: | DEA/EIA/14/12/16/3/3/1/1687 |
| Date Received:         |                             |

Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), (the Act) and the Environmental Impact Assessment Regulations, 2014 the Regulations)

#### PROJECT TITLE

**Car Park Extension project at Koeberg Nuclear Power Station**

#### Kindly note that:

1. This application form is current as of 08 December 2014. It is the responsibility of the applicant to ascertain whether subsequent versions of the form have been published or produced by the competent authority.
2. The application must be typed within the spaces provided in the form. The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided. Spaces are provided in tabular format and will extend automatically when each space is filled with typing.
3. Where applicable **black out** the boxes that are not applicable in the form.
4. The use of the phrase "not applicable" in the form must be done with circumspection. Should it be done in respect of material information required by the competent authority for assessing the application, it may result in the rejection of the application as provided for in the Regulations.
5. This application must be handed in at the offices of the relevant competent authority as determined by the Act and Regulations.
6. No faxed or e-mailed applications will be accepted. An electronic copy of the signed application form must be submitted together with two hardcopies (one of which must contain the original signatures).
7. Unless protected by law, all information filled in on this application form will become public information on receipt by the competent authority. Any interested and affected party should and shall be provided with the information contained in this application on request, during any stage of the application process.
8. Should a specialist report or report on a specialised process be submitted at any stage for any part of this application, the terms of reference for such report and declaration of interest of the specialist must also be submitted.
9. Proof of payment must accompany this application. The application will not be processed without proof of payment unless one of the exclusions provided for the Fee Regulations (Fees for consideration and processing of applications for environmental authorisations and amendments thereto Government Notice No.141, published on 28 February 2014) is applicable AND such information in section 1 of this application form has been confirmed by this Department.

## **Departmental Details**

The application must be addressed to the Chief Directorate: Integrated Environmental Authorisations at:

**Postal address:**

Department of Environmental Affairs  
Attention: Director: Integrated Environmental Authorisations  
Private Bag X447  
Pretoria  
0001

**Physical address:**

Department of Environmental Affairs  
Attention: Director: Integrated Environmental Authorisations  
Environment House  
473 Steve Biko Road  
Arcadia  
Pretoria

Queries must be addressed to the contact below:

Tel: 012 399 9372

E-mail: [EIAAdmin@environment.gov.za](mailto:EIAAdmin@environment.gov.za)

***Please note that this form must be copied to the relevant provincial environmental department/s.***

View the Department's website at <http://www.environment.gov.za/> for the latest version of the documents.

1. **PROOF OF PAYMENT**

Applicants are required to tick the appropriate box below to indicate that either proof of payment is attached or that, in the applicant's view, an exclusion applies. Proof and a motivation for exclusions must be attached to this application form in **Appendix 1**.

Proof of payment attached as **Appendix 1**

Exclusion applies

An applicant is excluded from paying fees if:

The activity is a community based project funded by a government grant; or  
The applicant is an organ of state.

**Note:** Eskom Holdings SOC Limited is the applicant and is automatically exempted from paying as an organ of state.

| TYPE OF EXCLUSION  | Tick where applicable.<br>Proper motivation must be attached to the application |
|--|---|
| The activity is a community based project funded by a government grant |   |
| The applicant is an organ of state                                     | ✓   |

| FEE AMOUNT  | Fee     |
|---|---------|
| Application for an environmental authorisation for which basic assessment is required in terms of the Environmental Impact Assessment Regulations | R2 000  |
| Application for an environmental authorisation, for which S&EIR is required in terms of the Environmental Impact Assessment Regulations           | R10 000 |

Department of Environmental Affairs' details for the payment of application fees:

|  |
|--|
| <p>Payment Enquiries:<br/>Tel: 012 399 9119<br/>Email: <a href="mailto:eiafee@environment.gov.za">eiafee@environment.gov.za</a></p> <p>Banking details:<br/>ABSA Bank<br/>Branch code: 632005<br/>Account number: 1044 2400 72<br/>Current account<br/>Reference number : Reference number to be provided in the specific format indicating centre point coordinates of site in decimal degrees to 5 or 6 decimal places: latitude/longitude<br/>eg. -33.918861/18.423300</p> <p>Proof of payment must accompany the application form: Indicate reference number below.</p> <p>Tax exemption status:<br/>Status: Tax exempted</p> <p>Reference number: .....</p> |
|--|

## 2. PROJECT DESCRIPTION

Please provide a **detailed** description of the project.

### Project Locality:

Koeberg Nuclear Power Station (KNPS) is located approximately 30 km north of Cape Town's CBD along the R27 West Coast Road and approximately 10 km southwest of the town of Atlantis, Western Cape (**refer to Figure 1**). The KNPS (and surrounding Koeberg Nature Reserve) is situated within and under the jurisdiction of the City of Cape Town Municipality. The KNPS is operated by Eskom Holding SOC Limited (Eskom) and acts as the major supplier of electricity for this province. The KNPS is located on Cape Farm Duynfontyn No. 1552.

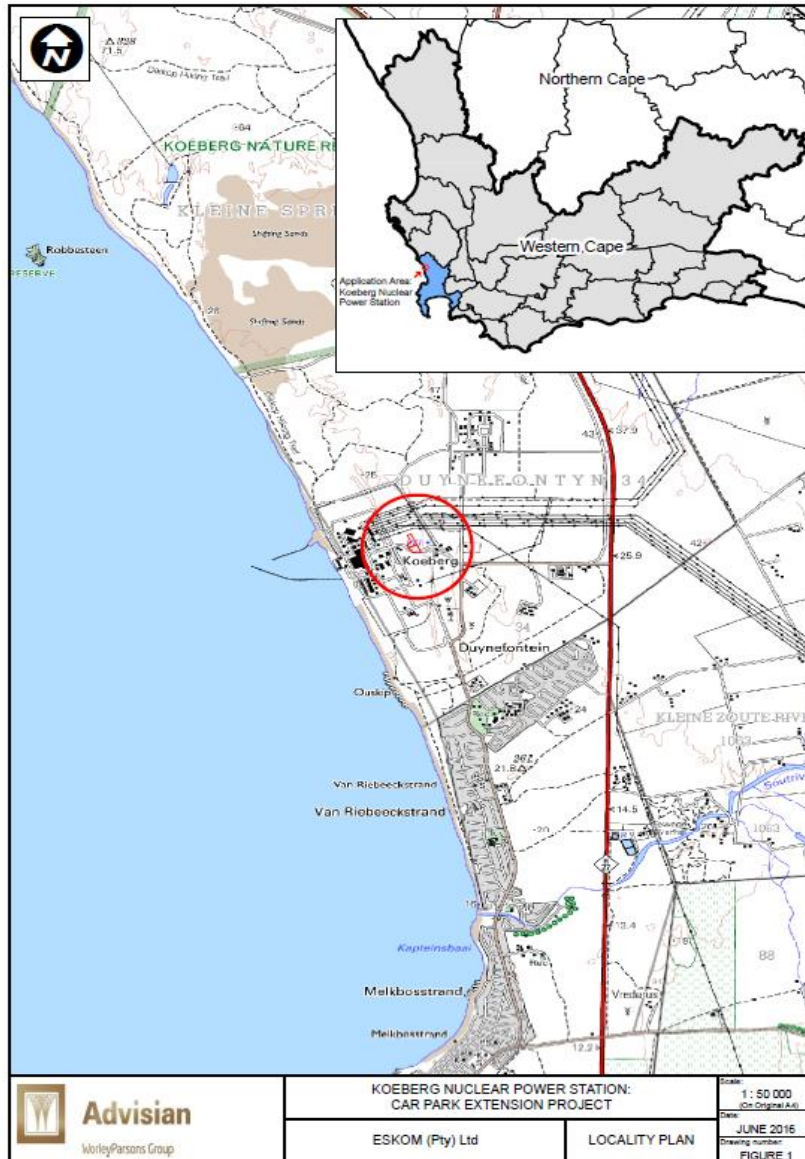
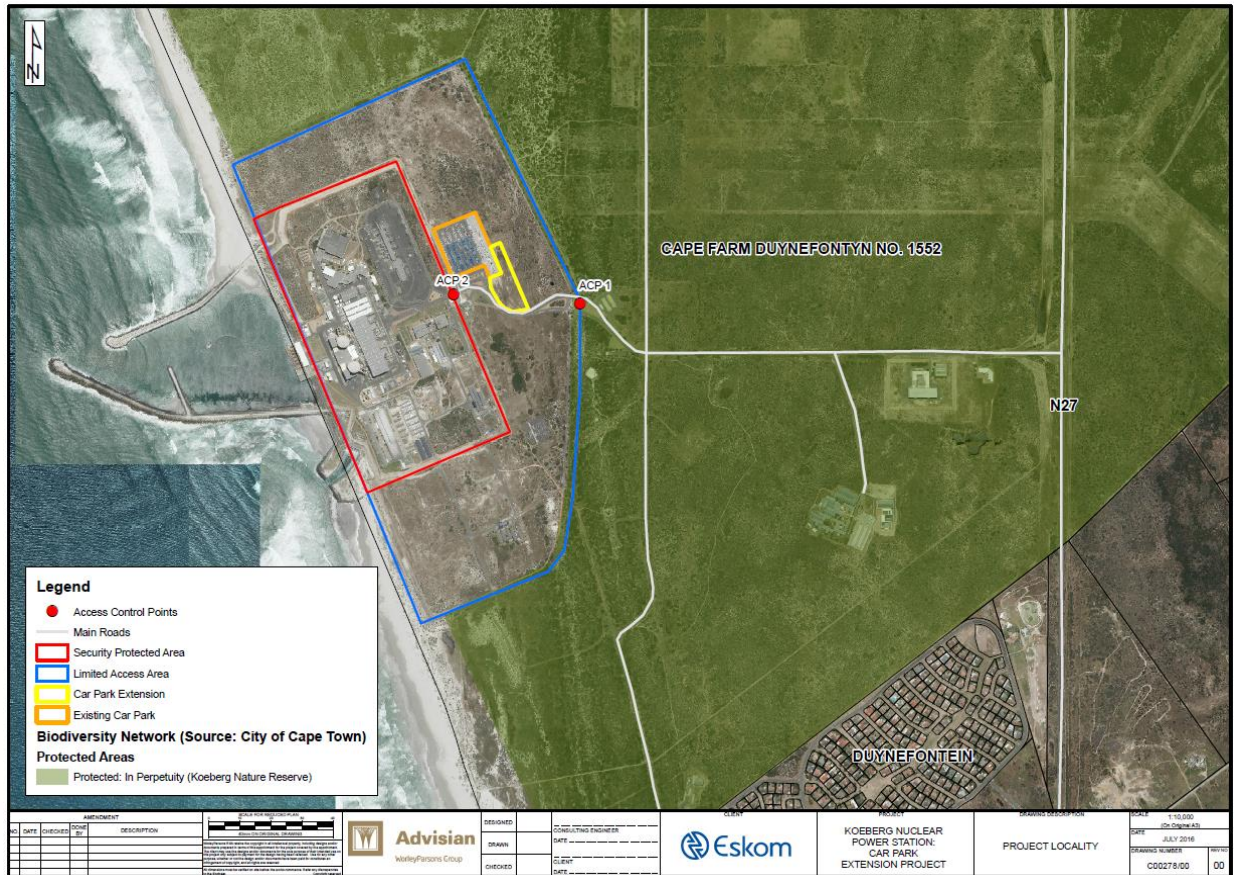


Figure 1 Location of the Koeberg Nuclear Power Station in the Western Cape

The proposed Car Park Extension site is to be located within the KNPS Limited Access Area in close proximity to Access Control Point (ACP) 2– Refer to **Figure 2**.



**Figure 2** Location of the proposed Car Park Extension project

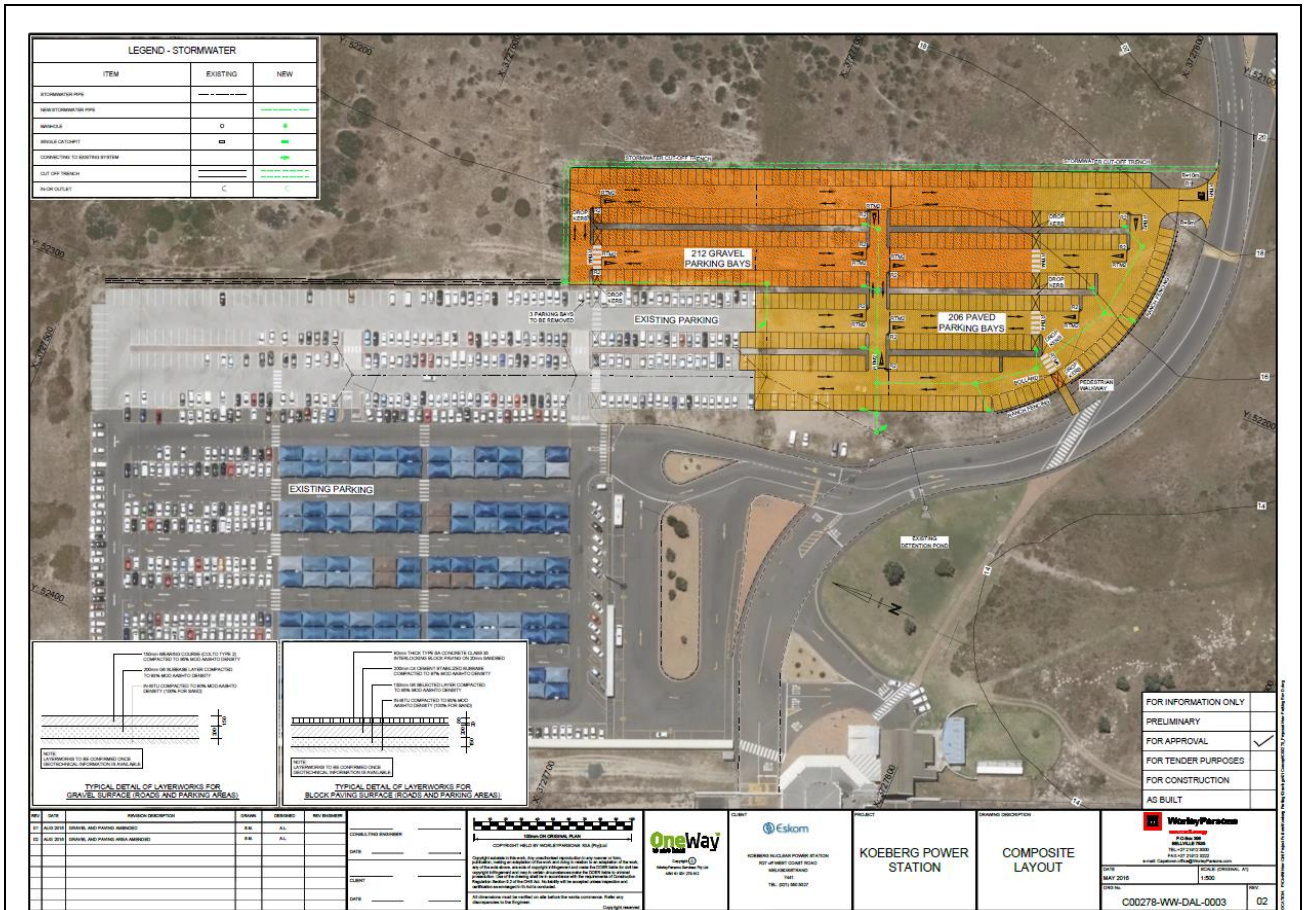
### Project Motivation

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 KNPS until 2045, major refurbishment and maintenance of the facility and its associated infrastructure is a necessity. During these major planned maintenance periods, 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. This project will be a direct extension of the existing parking area and 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.

### Project construction details:

The proposed Car Park Extension Project will provide an additional **206 permanent** (paved) and **212 temporary** (gravel) **parking bays** with an expected development footprint of approximately **11 000m<sup>2</sup>** (Refer to **Figure 3** below for the conceptual design layout). This will increase the number of parking bays at ACP2 from 1015 to 1415 and the combined parking available at both ACP1 and ACP2 from 1185 to 1585 (a 34% increase).



**Figure 3 Conceptual design layout for KNPS Car Park Extension project**

The construction work will entail typical layerworks as used in road construction with a depth of excavation expected to vary between 380 mm and 500 mm. The deepest excavations, up to 1 m deep, will be required in areas where drainage for stormwater will be installed, but depths may vary slightly depending on the slope and the on-site subsurface conditions.

As this is an extension (establishment of additional parking bays) of an existing car park, no new bulk services are envisaged for this development.

No landscaping for the project is required, as the parking area extension will consists solely of paved and gravel areas.

The estimated construction timeframe for the project is 6 – 8 months.

**Biodiversity Aspects:**

KNPS is located within the Koeberg Nature Reserve, which incorporates a number of environments including small wetlands, coastal dune fields, strandveld dune vegetation, sand plain fynbos as well as areas infested with alien vegetation. This Nature Reserve is categorised as a “Protected Area” in terms of the National Environmental Management: Protected Areas Act (2003) and according to the Cape Town Municipality Biodiversity Database.

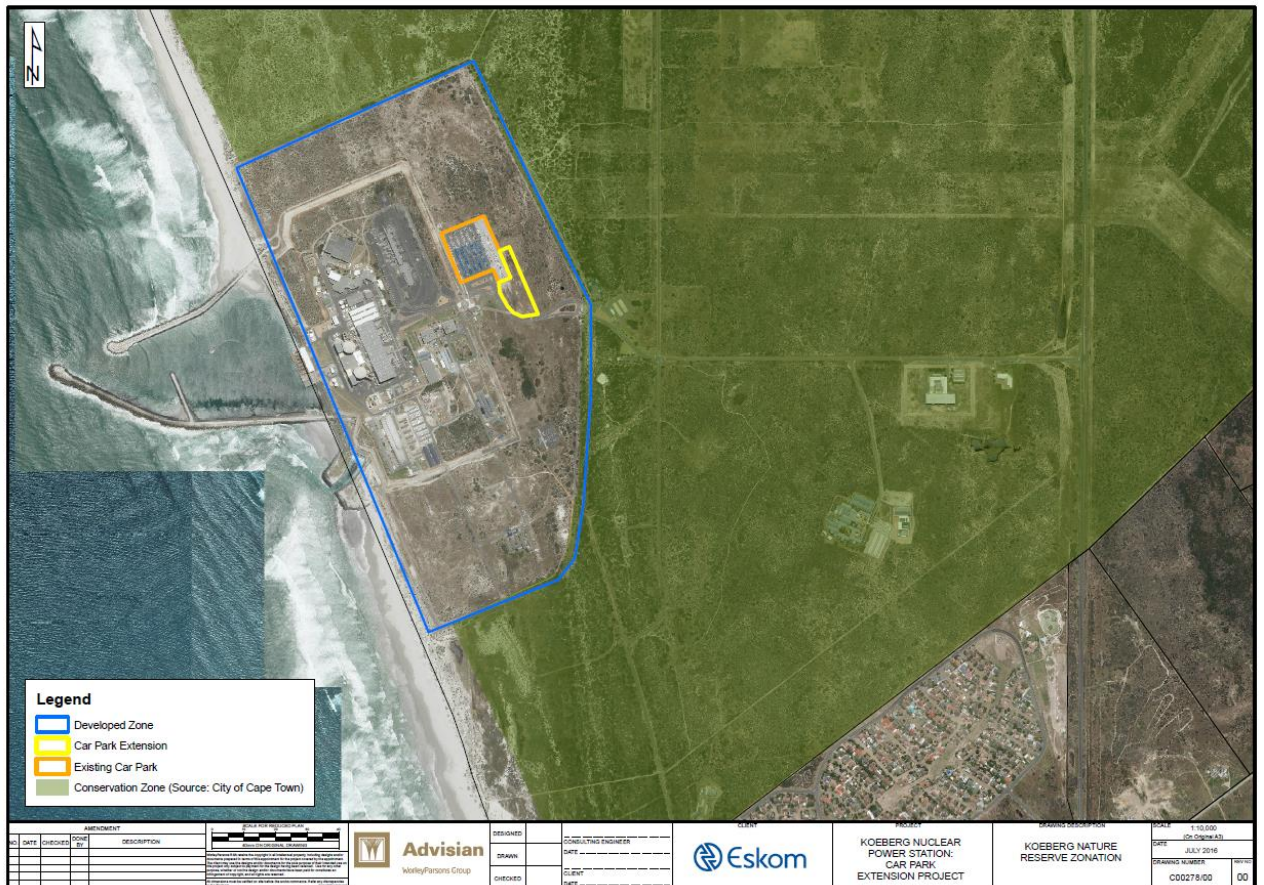
The Koeberg Nature Reserve has the following objectives:

- Maintain an environment in which the KNPS can continue to operate and possible future nuclear development can occur in a sustainable manner, while conserving the surrounding environment for the benefit of the community;
- Maintain an environment in which educational and recreational development can continue, within the context

of the KNPS and its conservation objectives;

- Protect an ecologically viable, representative area of vegetation types present and its associated biodiversity;
- Protect the ecological integrity and functioning of wetlands, and their catchments;
- Protect the biodiversity of the area; and
- Provide access for the public to the area and its resources.

The Koeberg Nature Reserve Management Plan developed in 2015, defined various zones within the nature reserve according to its management activities. The Nature Reserve therefore differentiates between a **Conservation Zone** and **Developed Zone**. The proposed **Car Park Extension project** will be located within the **Developed Zone** of the Nature Reserve as depicted in **Figure 4**.



**Figure 4 Koeberg Nature Reserve Management Plan Zonation with the Car Park Extension project situated within the “Developed Zone”**

In terms of vegetation (biodiversity) type, although the project area is located within the Cape Flats Dune Strandveld, considered by the South African National Biodiversity Institute as “Critically Endangered”, the actual Car Park Extension site will be located in an already developed and ecologically disturbed area (refer to **Figure 5**).

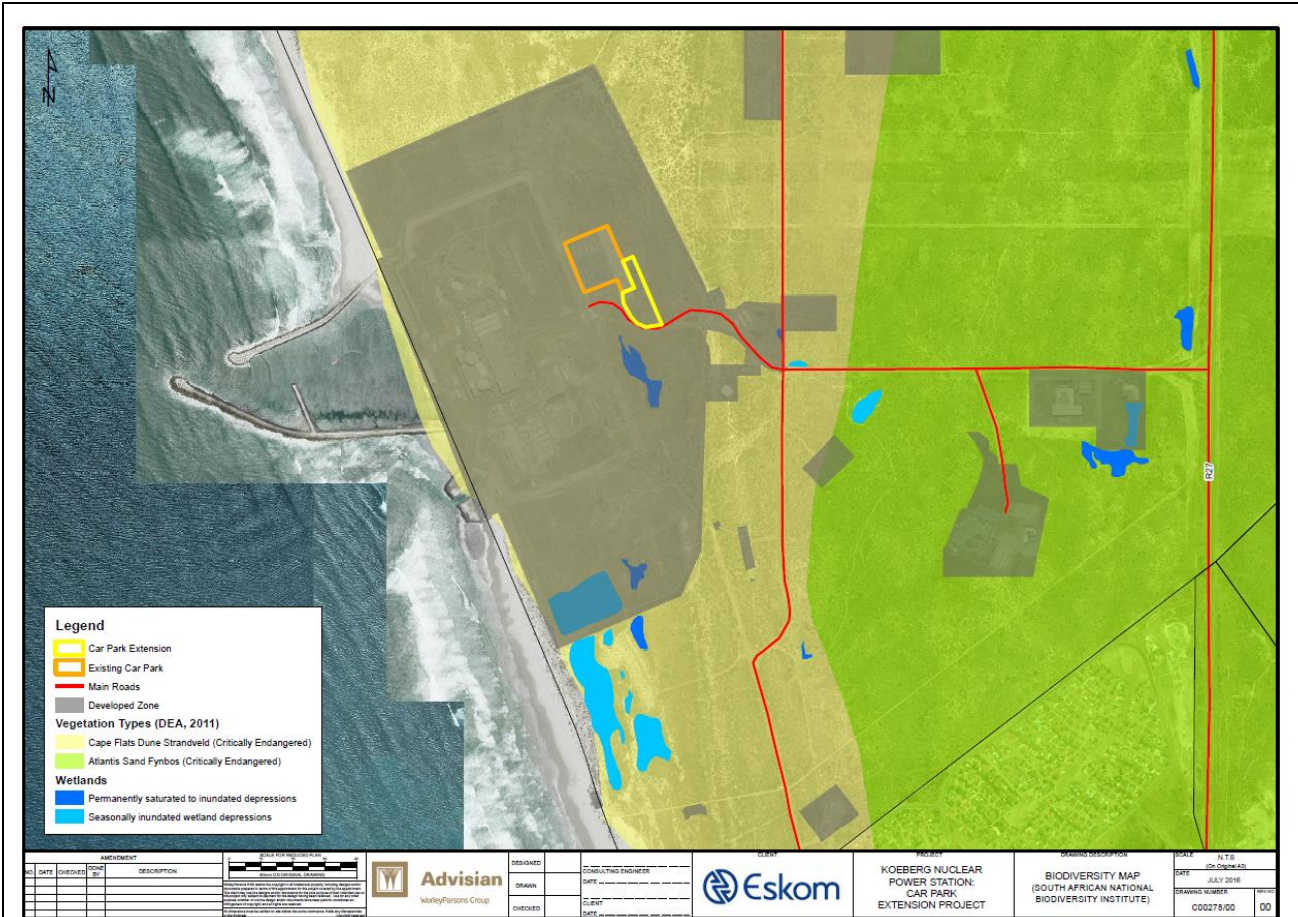
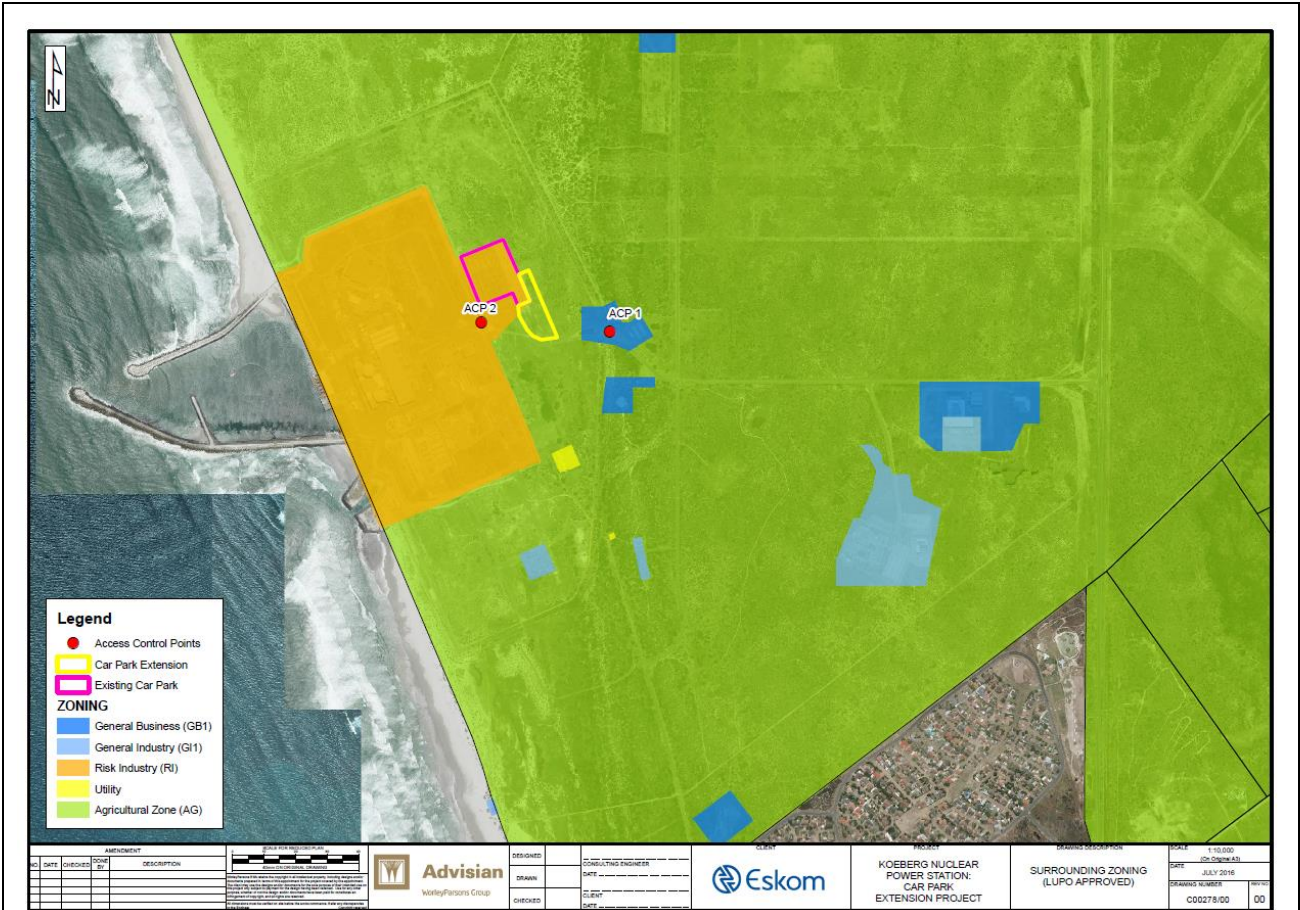


Figure 5: Biodiversity Map (South African National Biodiversity Institute) for the Car Park Extension Project.

**Land Use Change:**

In terms of the City of Cape Town Land Use Municipal Planning Bylaw of 2015 the parking area extension requires a **rezoning application**. The zoning of the area (Refer to **Figure 6**) for the proposed Car Park Extension site is currently zoned as "Agriculture" and needs to be zoned as to either "Transport Zone 1" or "Risk Industry" through the submission of a rezoning application to City of Cape Town. The existing car park area is currently zoned as "Risk Industry" and recommended that the area to be extended, be zoned the same. A professionally registered town planner, namely CK Rumboll & Partners, has been appointed to complete this rezoning application and submit to the City of Cape Town Municipality for approval.





**Figure 6: Existing zonation (in terms of City of Cape Town Land Use Planning) of the project area.**

**Heritage Aspects:**

In terms of Section 38(1)(c)(i) of the National Heritage Resources Act (1999) any development exceeding an area of 5 000m<sup>2</sup> will require the submission of the Notification of Intent to Develop (NID) to Heritage Western Cape (HWC). A NID for the Car Park Extension project was submitted to the HWC on the 11<sup>th</sup> of July 2016.

HWC issued a response to the NID application and requested a Heritage Impact Assessment (HIA) be completed due to the potential presence of archaeological / paleontological heritage resources present on the Car Park Extension site. A HIA was subsequently completed (dated September 2016) and submitted to the HWC, who responded and issued a final decision (December 2016).

**Lighting Aspects:**

Light pollution due to excessive, misdirected, or obtrusive artificial light may have negative impacts on natural cycles e.g. be disruptive to nocturnal fauna and insects. Special lighting will be required for the Car Park Extension project to minimise or eliminate this hazard.

**Traffic management**

On request of the City of Cape Town (CoCT), a Traffic Evacuation Model was completed for KNPS which incorporates the Car Park Extension project and submitted to the CoCT (for their record and modelling of traffic flow) in November 2016. This was done to ensure that the Koeberg emergency plan evacuation times as restricted by the National Nuclear Regulator are protected.

A baseline Traffic Impact Assessment (TIA) was completed for the KNPS site in 2007. One of the main differences between the car park extension and the TIA assessment completed in 2007 was that the assessment completed in 2007 was conducted to determine the traffic impacts of additional staff on a permanent basis. The car park extension project on the other hand only aims at increasing the parking requirements on a temporary nature. The TIA made the

statement that “During outage periods, movements into and out of the facility are more evenly spread throughout the day, i.e. without distinct (normal commuter) peaks in the mornings and afternoons”. Based on the previous statement, ESKOM therefore does not expect that the proposed car park extension will significantly increase the traffic.

The Transport for Cape Town Official, namely Mr. Johan Massyn, in an e-mail correspondence dated 09 December 2016, indicated that the previous TIA compiled in 2007 was outdated and the CoCT therefore requires that a new Traffic Impact Statement (TIS) for the Car Park Extension project be completed. HHO Africa Infrastructure Engineers was appointed by Eskom and completed an updated Traffic Impact Assessment (dated April 2017). This study concluded that the net impact of the expansion of the parking area on peak hour traffic operations at the main access intersection with the Road 27 will be negligible, and that the current intersection control has sufficient capacity to accommodate the limited increase in traffic demand.

**Storm water management:**

Existing KNPS stormwater management system:

The storm water originating from the western part of the existing car park is discharged into the power station’s underground storm water system which discharges into the sea. The eastern part of the existing car park, which was added at a later stage, has a separate storm water system that discharges into an attenuation pond just south of the car park. The car park extension will be constructed higher than the natural ground level. Stormwater will be collected and directed to an existing attenuation pond about 20m west of the proposed development. The water in the attenuation pond is allowed to infiltrate into the sandy soil.

Proposed stormwater management for the Car Park Extension project:

- Stormwater runoff generated from the car park extension (which will be constructed higher than the natural ground level) shall consist of an underground collection system;
- The collected stormwater shall be channelled through a gravel / oil trap into the existing storm water attenuation pond located approximately 20m east of the proposed development. The discharge system shall ensure that no erosion of soil occurs at the point of discharge where the flow rate is highest;
- Surface water in the attenuation pond will be allowed to infiltrate into the permeable sandy soil below; and
- The overflow channel linked to the existing attenuation pond will ensure that high volumes from extreme storm events can be channelled to the wetland to the south. The proposed car park extension project is not expected to increase the flow volume to this wetland by more than 10%. The wetland is some distance away from any buildings and situated at a lower level than surrounding buildings (flooding of buildings is highly unlikely).

|  |     |    |
|--|-----|----|
| Does the project form part of any of the Strategic Infrastructure Projects (SIPs) as described in the National Development Plan, 2011? | YES | NO |
|--|-----|----|

If YES, please indicate which SIPs are applicable in **Appendix 2**. You are also required to provide confirmation of SIP applications from the relevant sector representative which must be attached in **Appendix 2**. **Note:** *The SIP representative acknowledged that this application must be submitted to the DEA for confirmation on whether it is a SIP.*

Please indicate which sector the project falls under by crossing out the relevant block in the table below:

**Table 1**

|   |   |
|---|---|
| <del>Green economy + “Green” and energy saving industries</del>                       | <del>Greenfield transformation to urban or industrial form (including mining)</del>                     |
| <del>Infrastructure — electricity (generation, transmission &amp; distribution)</del> | <del>Biodiversity or sensitive area related activities</del>  |
| <del>Oil and gas</del>  | <del>Mining value chain</del>   |
| <del>Biofuels</del>   | <del>Potential of metal fabrication capital &amp; transport equipment — arising from large public</del> |

|   |   |  |  |
|---|---|--|--|
|   |   | investments  |  |
| <b>Nuclear</b>  | ✓ | Boat building  |  |
| Basic services (local government) — electricity and electrification                               |   | Manufacturing — automotive products and components, and medium and heavy commercial vehicles |  |
| Basic services (local government) — area lighting   |   | Manufacturing — plastics, pharmaceuticals and chemicals                                      |  |
| Infrastructure — transport (ports, rail and road)   |   | Manufacturing — clothing textiles, footwear and leather                                      |  |
| Basic services (local government access roads)  |   | Forestry, paper, pulp and furniture  |  |
| Basic services (local government) — public transport  |   | Business process servicing   |  |
| Infrastructure — water (bulk and reticulation)  |   | Advanced materials   |  |
| Basic services (local government) — sanitation  |   | Aerospace  |  |
| Basic services (local government) — waste management  |   | Basic services (local government) — education  |  |
| Basic services (local government) water   |   | Basic services (local government) — health   |  |
| Agricultural value chain + agro-processing (linked to food security and food pricing imperatives) |   | Basic services (local government) — housing  |  |
| Infrastructure — information and communication technology   |   | Basic services (local government) security of tenure   |  |
| Tourism + strengthening linkages between cultural industries and tourism                          |   | Other  |  |
| Basic services (local government) — public open spaces and recreational facilities                |   |  |  |

**Table 2**

|   |            |  |
|---|------------|--|
| Does the listed activity/ies applied for form part of a larger project which is not a listed activity itself e.g. a road that is a listed activity that is needed to access a drilling site where the drilling does not constitute a listed activity. | <b>YES</b> |  |
| If indicated yes above, please provide a brief description on how the activity/ies relate to the larger project that forms part there of:   |            |  |
| <b>This project supports many other maintenance and refurbishment projects on the KNPS site. None of the maintenance projects trigger a listed activity.</b>  |            |  |

### 3. GENERAL INFORMATION

|  |                            |
|--|----------------------------|
| Applicant name:  | Eskom Holdings SOC Limited |
| Registration number (if applicant is a company)          | 2002/015527/30             |
| Trading name (if any)                                    | N/A                        |
| Responsible person name (If the applicant is a company): | Velaphi Ntuli              |
| Applicant/ Responsible person ID number:                 | N/A                        |

|  |  |                 |     |
|--|--|-----------------|-----|
| Responsible position,<br>e.g. Director, CEO, etc.: | General Manager: Koeberg Power Station   |                 |     |
| Physical address:                                  | Eskom Koeberg Operating Unit, Trunk Road R27, Off West Coast Road, Melkbosstrand, Western Cape |                 |     |
| Postal address:                                    | Private Bag X10, Cape Town   |                 |     |
| Postal code:                                       | 7440   | Cell:           | N/A |
| Telephone:   | 021 522 3849   | Fax:            | N/A |
| E-mail:  | NtuliV@eskom.co.za   | BBBEE<br>status | N/A |

|                       |  |       |     |
|-----------------------|--|-------|-----|
| Provincial Authority: | Department of Environmental Affairs & Development Planning |       |     |
| Contact person:       | Alvan Gabriel  |       |     |
| Postal address:       | Private Bag X9086, Cape Town                               |       |     |
| Postal code:          | 8000   | Cell: | N/A |
| Telephone:            | 021 866 8000   | Fax:  | N/A |
| E-mail:               | alvan.gabriel@westerncape.gov.za                           |       |     |

|                    |  |       |              |
|--------------------|--|-------|--------------|
| Local municipality | City of Cape Town                                  |       |              |
| Contact person:    | Pat Titmuss  |       |              |
| Postal address:    | Milnerton Civic Centre, 87 Pienaar Road, Milnerton |       |              |
| Postal code:       | 7441   | Cell: | 083 701 4318 |
| Telephone:         | 021 444 0597                                       | Fax:  | 021 444 0605 |
| E-mail:            | pat.titmuss@capetown.gov.za                        |       |              |

In instances where there is more than one local authority involved, please attach a list of those local authorities with their contact details as **Appendix 3**.

|                 |  |       |     |
|-----------------|--|-------|-----|
| Landowner:      | Eskom Holdings SOC Limited                             |       |     |
| Contact person: | Velaphi Ntuli - General Manager: Koeberg Power Station |       |     |
| Postal address: | Private Bag X10, Cape Town                             |       |     |
| Postal code:    | 7441   | Cell: | N/A |
| Telephone:      | 021 522 3849   | Fax:  | N/A |
| E-mail:         | NtuliV@eskom.co.za                                     |       |     |

In instances where there is more than one landowner, please attach a list of those landowners with their contact details as **Appendix 4**. If the applicant is not the owner or person in control of the land, proof of notice to the landowner or person in control of the land on which the activity is to be undertaken must be submitted in **Appendix 4**.

|   |   |
|---|---|
| Identified Competent Authority to consider the application: | National Department of Environmental Affairs                        |
| Reason(s) in terms of S 24C of NEMA 1998 as amended         | 2(d) (iii) The activity is to be undertaken by a Parastatal (Eskom) |

#### 4. ENVIRONMENTAL ASSESSMENT PRACTITIONER (EAP) INFORMATION

|  |   |
|--|---|
| EAP:                                   | Ryan Emslie Jonas   |
| Professional affiliation/registration: | Registered Professional Natural Scientist (Pr. Sci. Nat, Reg no: 400159/15) and member of the International Association for Impact Assessment (South African affiliate) |

|   |  |       |              |
|---|--|-------|--------------|
| Contact person (if different from EAP): | N/A  |       |              |
| Company:                                | WorleyParsons RSA (Pty) Ltd. trading as Advisian     |       |              |
| Physical address:                       | 31 Allen Dr, Loevenstein, Bellville, Cape Town, 7530 |       |              |
| Postal address:                         | PO Box 398, Bellville, Cape Town                     |       |              |
| Postal code:                            | 7535   | Cell: | N/A          |
| Telephone:                              | 010 593 3942   | Fax:  | 021 912 3222 |
| E-mail:                                 | ryan.jonas@advisian.com                              |       |              |

If an EAP has not been appointed please ensure that an independent EAP is appointed as stipulated by Regulation 12 of GN R.982, dated December 2014, prior to the commencement of the process. The declaration of independence and the Curriculum Vitae (indicating the experience with environmental impact assessment and the relevant application processes) of the EAP must also be submitted to the Department (see **Appendix 9**).

## 5. SITE DESCRIPTION

Koeberg Nuclear Power Station (KNPS) is located on Cape Farm Duynfontyn No. 1552 along the 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. Access to KNPS is via the R27 road which runs along the property's eastern boundary or alternatively via Otto du Plessis Drive.

The topography of the area is relatively flat with an active dunefield extending north of KNPS. A stabilised primary dune inland of KNPS screens many of the KNPS buildings although the two nuclear reactor units are prominent landmarks in the region.

The vegetation of the area consists of low coastal shrub (Cape Flats Dune Strandveld), typical of much of the West Coast. The KNPS is located within the Koeberg Nature Reserve, a 3 000 ha reserve managed by Koeberg Managing Authority. The Atlantic Ocean forms the western boundary of the KNPS.

There are a variety of land uses in the immediate surroundings of the KNPS including the Duynfontein residential area to the south, the Koeberg Nature Reserve to the north, south and east.

The KNPS is located within a predominantly natural environment, although there are existing built elements throughout the property including powerlines, office buildings, a visitors centre, weather station, roads and parking areas.

The proposed Car Park Extension site is to be located within the KNPS Limited Access Area security zone in close proximity to Access Control Point 2 which is the main access to the power station (*refer to Figure 2 in Section 2 of this application form*).

|                            |                           |
|----------------------------|---------------------------|
| Province                   | Western Cape              |
| District Municipality      | City of Cape Town         |
| Local Municipality         | City of Cape Town         |
| Ward number(s)             | 32                        |
| Nearest town(s)            | Duynfontein               |
| Farm name(s) and number(s) | Cape Farm Duynfontyn 1552 |
| Portion number(s)          | 0                         |

SG 21 Digit Code(s)

(If there are more than 4, please attach a list with the rest of the codes as **Appendix 5**)

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C | 0 | 1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 5 | 2 | 0 | 0 | 0 | 0 | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

|   |   |   |   |   |
|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|

|  |   |     |    |
|--|---|-----|----|
| Are there any other applications for Environmental Authorisation on the same property?   |   | YES | NO |
| If YES, please indicate the following:   |   |     |    |
| <b>Competent Authority</b>   | <b>Department of Environmental Affairs</b>  |     |    |
| Project Name & Reference Number  | Nuclear 1 EIA project (DEA Reference no: 12/12/20/944)  |     |    |
| Project Name & Reference Number  | Used Fuel Transient Interim Storage Facility at Koeberg Nuclear Power Station (DEA Reference no: 14/12/16/3/3/2/947)  |     |    |
| Project Name & Reference Number  | Koeberg Diesel Storage project (DEA Reference no: <i>Reference number still to be issued</i> )  |     |    |
| Project Name & Reference Number  | Potable water storage tanks (DEA Reference no: <i>Reference number still to be issued</i> )   |     |    |
| Project Name & Reference Number  | New Koeberg Insulator Pollution Testing Station (KIPTS) and decommissioning of the existing KIPTS (DEA Reference no: <i>Reference number still to be issued</i> ) |     |    |
| <u>Please provide details of the steps taken to ascertain this information:</u>  |   |     |    |
| The above mentioned projects are Environmental Authorisation (EA) applications currently in progress which are located on the KNPS property. |   |     |    |

## 1. ACTIVITIES TO BE AUTHORISED

For an application for authorisation that involves more than one listed activity that, together, make up one development proposal, all the listed activities pertaining to this application must be indicated.

|  |  |
|--|--|
| <b>Detailed</b> description of listed activities associated with the project   |  |
| <b>Listed activity as described in GN R 983, 984 and 985</b>   | <b>Description of project activity that triggers listed activity</b>   |
| <p><b><u>GN R. 983 Item 27:</u></b><br/>The clearance of an area of 1 hectares or more, but less than 20 hectares 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>The proposed Car Park Extension project proposes to clear vegetation of approximately 11 000m<sup>2</sup> (1.1 ha).</p>   |
| <p><b><u>GN R. 985 Item 12:</u></b><br/>The clearance of an area of more than 300m<sup>2</sup> or more of indigenous vegetation except where such clearance of indigenous vegetation is required for maintenance purposes undertaken in accordance with a maintenance management plan.</p> <p>(a) In Western Cape:</p> <p>i. Within any critically endangered or endangered ecosystem listed in terms of section 52 of the NEMBA or prior to the</p> | <p>The Car Park Extension project proposes to clear vegetation of approximately 11 000m<sup>2</sup>. The proposed site is located within the Cape Flats Dune Strandveld (FS 6) vegetation type (SANBI). This vegetation type has been classified as Critically Endangered in the list of ecosystems which are threatened and in need of protection, December 2011 (NEM: Biodiversity Act (2004)).</p> <p>The actual Car Park Extension site will be located in an already developed and ecologically disturbed area within the Koeberg Nature Reserve.</p> |

|  |  |
|--|--|
| publication of such a list, within an area that has been identified as critically endangered in the National Spatial Biodiversity Assessment 2004. |  |
|--|--|

Please note that any authorisation that may result from this application will only cover activities specifically applied for. Co-ordinate points indicating the location of each listed activity must be provided with the relevant report (i.e. either BAR or EIR).

Please provide a project map indicating any sensitive areas (e.g. critical biodiversity area, World Heritage Site, etc.) overlaid by the study area in **Appendix 6**

A project schedule, indicating the different phases and timelines of the project, must be attached as **Appendix 7**.

## 2. PUBLIC PARTICIPATION

Provide details of the public participation process proposed for the application as required by Regulation 41(2) of GN R .982, dated December 2014.

Stakeholder engagement forms a key component of the Basic Assessment (BA) process and was undertaken in accordance with Chapter 6 of the EIA Regulations, 2014.

Relevant local, provincial and national authorities, conservation bodies, local forums and surrounding landowners and occupants were directly notified of the BA process. National, provincial and local authorities identified in the initial stakeholder database included the Department of Environmental Affairs (DEA), Western Cape Department of Environmental Affairs and Development Planning (DEA&DP), CapeNature, Department Water and Sanitation (DWS) and City of Cape Town.

Key stakeholders (on the KNPS database) as well as local and provincial departments were notified of the availability of the Draft Basic Assessment Report (DBAR) for public review. Newspaper advertisements announcing the availability of the DBAR and inviting stakeholders to register on the project database were placed in:

- One regional newspaper: The Cape Times (in English);
- Three local newspapers: WeskusNuus (in Afrikaans); Tygerburger (in English); Isolabantu (in isiXhosa); and Impact News (in English).

Hard copies of the DBAR were made available for viewing at the following venues:

- Koeberg Public Library (Address: Merchant Walk, Duynefontein, Melkbosstrand. Tel: +27 21 553 2514);
- Wesfleur Public Library (Address: Wesfleur Circle, Dassenberg, Atlantis. Tel: +27 21 572 7618);
- Thusong Community Centre (Address: 1 Nottingham Street, Sherwood Park, Atlantis. Tel: +27 21 572 0289),
- Avondale Public Library (Address: Civic Centre, Grosvenor Avenue, Atlantis. Tel: +27 21 572 3529); and
- Koeberg Visitors Centre (Address: on the Koeberg Nuclear Power Station site. Tel: +27 21 550 4667)

Electronic copy of the DBAR was also made available on <http://www.advisian.com/advisian-environment-society>

A4 size notices, in English, Afrikaans and Xhosa were placed on the noticeboards at each of the relevant locations within the KNPS. A2 site notices were placed at the entrance gates to the KNPS site.

Stakeholders were be provided with a 30-day comment period (**27<sup>th</sup> of October – 28<sup>th</sup> of November 2016**) for the DBAR and all written comments received (and responses thereto) were be captured in a Comments and Responses Report and attached to the Final Basic Assessment Report.

### 3. OTHER AUTHORISATIONS REQUIRED

| LEGISLATION  | AUTHORISATION REQUIRED |    | APPLICATION SUBMITTED |    |
|--|------------------------|----|-----------------------|----|
|  | YES                    | NO | YES                   | NO |
| <b>SEMA</b> s  |                        |    |                       |    |
| National Environmental Management: Air Quality Act                   | YES                    | NO | YES                   | NO |
| National Environmental Management: Biodiversity Act                  | YES                    | NO | YES                   | NO |
| National Environmental Management: Integrated Coastal Management Act | YES                    | NO | YES                   | NO |
| National Environmental Management: Protected Areas Act               | YES                    | NO | YES                   | NO |
| National Environmental Management: Waste Act                         | YES                    | NO | YES                   | NO |
| <b>National legislation</b>  |                        |    |                       |    |
| Mineral Petroleum Development Resources Act                          | YES                    | NO | YES                   | NO |
| National Water Act   | YES                    | NO | YES                   | NO |
| National Heritage Resources Act                                      | YES                    | NO | YES                   | NO |
| Others: National Nuclear Regulator approval                          | YES                    | NO | YES                   | NO |

If authorisation is necessary in terms of the National Environmental Management: Waste Act, please contact the Department for guidance on the **Integrated Permitting System**.

### 4. LIST OF APPENDICES

|            |  | SUBMITTED |     |
|------------|--|-----------|-----|
|            |  | YES       | N/A |
| Appendix 1 | Proof of Payment   | YES       | N/A |
| Appendix 2 | Strategic Infrastructure Projects  | YES       | N/A |
| Appendix 3 | List of Local Municipalities (with contact details)                                  | YES       | N/A |
| Appendix 4 | List of land owners (with contact details) and proof of notification of land owners. | YES       | N/A |
| Appendix 5 | List of SGIDs  | YES       | N/A |
| Appendix 6 | Project map  | YES       | NO  |
| Appendix 7 | Project schedule   | YES       | N/A |
| Appendix 8 | Declaration of Applicant   | YES       | NO  |
| Appendix 9 | Declaration of EAP   | YES       | NO  |



**APPENDIX 1  
PROOF OF PAYMENT/ MOTIVATION FOR EXCLUSION**

*NOT APPLICABLE –*

*Eskom Holdings SOC Limited is the Applicant and therefore exempted from payment*

**APPENDIX 2**  
**STRATEGIC INFRASTRUCTURE PROJECTS – NOT APPLICABLE**

|   |  |
|---|--|
| <p><b>SIP 1: Unlocking the northern mineral belt with Waterberg as the catalyst</b></p> <ul style="list-style-type: none"> <li>• Unlock mineral resources</li> <li>• Rail, water pipelines, energy generation and transmission infrastructure</li> <li>• Thousands of direct jobs across the areas unlocked</li> <li>• Urban development in Waterberg - first major post-apartheid new urban centre will be a “green” development project</li> <li>• Rail capacity to Mpumalanga and Richards Bay</li> <li>• Shift from road to rail in Mpumalanga</li> <li>• Logistics corridor to connect Mpumalanga and Gauteng.</li> </ul>                      |  |
| <p><b>SIP 2: Durban-Free State-Gauteng logistics and industrial corridor</b></p> <ul style="list-style-type: none"> <li>• Strengthen the logistics and transport corridor between SA's main industrial hubs</li> <li>• Improve access to Durban's export and import facilities</li> <li>• Integrate Free State Industrial Strategy activities into the corridor</li> <li>• New port in Durban</li> <li>• Aerotropolis around OR Tambo International Airport.</li> </ul>   |  |
| <p><b>SIP 3: South-Eastern node &amp; corridor development</b></p> <ul style="list-style-type: none"> <li>• New dam at Mzimvubu with irrigation systems</li> <li>• N2-Wild Coast Highway which improves access into KwaZulu-Natal and national supply chains</li> <li>• Strengthen economic development in Port Elizabeth through a manganese rail capacity from Northern Cape</li> <li>• A manganese sinter (Northern Cape) and smelter (Eastern Cape)</li> <li>• Possible Mthombo refinery (Coega) and transshipment hub at Ngqura and port and rail upgrades to improve industrial capacity and performance of the automotive sector.</li> </ul> |  |
| <p><b>SIP 4: Unlocking the economic opportunities in North West Province</b></p> <ul style="list-style-type: none"> <li>• Acceleration of investments in road, rail, bulk water, water treatment and transmission infrastructure</li> <li>• Enabling reliable supply and basic service delivery</li> <li>• Facilitate development of mining, agricultural activities and tourism opportunities</li> <li>• Open up beneficiation opportunities in North West Province.</li> </ul>  |  |
| <p><b>SIP 5: Saldanha-Northern Cape development corridor</b></p> <ul style="list-style-type: none"> <li>• Integrated rail and port expansion</li> <li>• Back-of-port industrial capacity (including an IDZ)</li> <li>• Strengthening maritime support capacity for oil and gas along African West Coast</li> <li>• Expansion of iron ore mining production and beneficiation.</li> </ul>  |  |
| <p><b>SIP 6: Integrated municipal infrastructure project</b></p> <p>Develop national capacity to assist the 23 least resourced districts (19 million people) to address all the maintenance backlogs and upgrades required in water, electricity and sanitation bulk infrastructure. The road maintenance programme will enhance service delivery capacity thereby impacting positively on the population.</p>  |  |
| <p><b>SIP 7: Integrated urban space and public transport programme</b></p> <p>Coordinate planning and implementation of public transport, human settlement, economic and social infrastructure and location decisions into sustainable urban settlements connected by densified transport corridors. This will focus on the 12 largest urban centres of the country, including all the metros in South Africa. Significant work is underway on urban transport integration.</p>   |  |

|   |  |
|---|--|
| <p><b>SIP 8: Green energy in support of the South African economy</b><br/>Support sustainable green energy initiatives on a national scale through a diverse range of clean energy options as envisaged in the Integrated Resource Plan (IRP2010) and support bio-fuel production facilities.</p> <p><i>Indicate capacity in MW:</i></p>  |  |
| <p><b>SIP 9: Electricity generation to support socioeconomic development</b><br/>Accelerate the construction of new electricity generation capacity in accordance with the IRP2010 to meet the needs of the economy and address historical imbalances. Monitor implementation of major projects such as new power stations: Medupi, Kusile and Ingula</p>   |  |
| <p><b>SIP 10: Electricity transmission and distribution for all</b><br/>Expand the transmission and distribution network to address historical imbalances, provide access to electricity for all and support economic development.<br/>Align the 10-year transmission plan, the services backlog, the national broadband roll-out and the freight rail line development to leverage off regulatory approvals, supply chain and project development capacity.</p>  |  |
| <p><b>SIP 11: Agri-logistics and rural infrastructure</b><br/>Improve investment in agricultural and rural infrastructure that supports expansion of production and employment, small-scale farming and rural development, including facilities for storage (silos, fresh-produce facilities, packing houses); transport links to main networks (rural roads, branch train-line, ports), fencing of farms, irrigation schemes to poor areas, improved R&amp;D on rural issues (including expansion of agricultural colleges), processing facilities (abattoirs, dairy infrastructure), aquaculture incubation schemes and rural tourism infrastructure.</p> |  |
| <p><b>SIP 12: Revitalisation of public hospitals and other health facilities</b><br/>Build and refurbish hospitals, other public health facilities and revamp 122 nursing colleges. Extensive capital expenditure to prepare the public healthcare system to meet the requirements of the National Health Insurance (NHI) system. The SIP contains major builds for 6 hospitals.</p>  |  |
| <p><b>SIP 13: National school build programme</b><br/>A national school build programme driven by uniformity in planning, procurement, contract management and provision of basic services. Replace inappropriate school structures and address basic service backlog and provision of basic services under the Accelerated School Infrastructure Delivery Initiative (ASIDI). In addition, address national backlogs in classrooms, libraries, computer labs and admin buildings. Improving the learning environment will strengthen outcomes especially in rural schools, as well as reduce overcrowding.</p>   |  |
| <p><b>SIP 14: Higher education infrastructure</b><br/>Infrastructure development for higher education, focusing on lecture rooms, student accommodation, libraries and laboratories, as well as ICT connectivity. Development of university towns with a combination of facilities from residence, retail to recreation and transport. Potential to ensure shared infrastructure such as libraries by universities, FETs and other educational institutions. Two new universities will be built - in Northern Cape and Mpumalanga.</p>  |  |
| <p><b>SIP 15: Expanding access to communication technology</b><br/>Provide for broadband coverage to all households by 2020 by establishing core Points of Presence (POPs) in district municipalities, extend new Infracore fibre networks across provinces linking districts, establish POPs and fibre connectivity at local level, and further penetrate the network into deep rural areas.<br/>While the private sector will invest in ICT infrastructure for urban and corporate networks, government will co-invest for township and rural access, as well as for e-government, school and health connectivity.</p>                                    |  |

|  |  |
|--|--|
| <p>The school roll-out focus is initially on the 125 Dinaledi (science and maths-focussed) schools and 1525 district schools. Part of digital access to all South Africans includes TV migration nationally from analogue to digital broadcasting.</p>   |  |
| <p><b>SIP 16: SKA &amp; Meerkat</b><br/> SKA is a global mega-science project, building an advanced radio-telescope facility linked to research infrastructure and high-speed ICT capacity and provides an opportunity for Africa and South Africa to contribute towards global advanced science projects.</p>   |  |
| <p><b>SIP 17: Regional integration for African cooperation and development</b><br/> Participate in mutually beneficial infrastructure projects to unlock long-term socio-economic benefits by partnering with fast growing African economies with projected growth ranging between 3% and 10%.<br/> The projects involving transport, water and energy also provide competitively-priced, diversified, short and medium to long-term options for the South African economy where, for example, electricity transmission in Mozambique (Cesul) could assist in providing cheap, clean power in the short-term whilst Grand Inga in the DRC is long-term.<br/> All these projects complement the Free Trade Area (FTA) discussions to create a market of 600 million people in South, Central and East Africa.</p> |  |
| <p><b>SIP 18: Water and sanitation infrastructure</b><br/> A 10-year plan to address the estimated backlog of adequate water to supply 1.4m households and 2.1m households to basic sanitation.<br/> The project will involve provision of sustainable supply of water to meet social needs and support economic growth. Projects will provide for new infrastructure, rehabilitation and upgrading of existing infrastructure, as well as improve management of water infrastructure.</p>   |  |

**APPENDIX 3 (IF APPLICABLE)  
LIST OF LOCAL MUNICIPALITIES**

Local municipality  
Contact person:  
Postal address:  
Postal code:  
Telephone:  
E-mail:

|  |       |              |
|--|-------|--------------|
| City of Cape Town                                  |       |              |
| Pat Titmuss  |       |              |
| Milnerton Civic Centre, 87 Pienaar Road, Milnerton |       |              |
| 7441   | Cell: | 083 701 4318 |
| 021 444 0597                                       | Fax:  | 021 444 0605 |
| pat.titmuss@capetown.gov.za                        |       |              |

**APPENDIX 4  
LIST OF LAND OWNERS  
PROOF OF NOTIFICATION OF LAND OWNERS**

*NOT APPLICABLE*

The affected property (Cape Farm Duynefontyn 1552) is owned by Eskom Holdings SOC Limited which is the applicant.

**APPENDIX 5 (IF APPLICABLE)  
LIST OF SGIDS**

*NOT APPLICABLE*

**APPENDIX 6  
PROJECT MAP**



**APPENDIX 7  
PROJECT SCHEDULE**

**APPENDIX 8  
DECLARATION OF THE APPLICANT**

I, Velaphi Ntuli declare that I -

- am, or represent<sup>1</sup>, the applicant in this application;
- have appointed / will appoint (delete that which is not applicable) an environmental assessment practitioner to act as the independent environmental assessment practitioner for this application / will obtain exemption from the requirement to obtain an environmental assessment practitioner<sup>2</sup>;
- will provide the environmental assessment practitioner and the competent authority with access to all information at my disposal that is relevant to the application;
- will be responsible for the costs incurred in complying with the Regulations, including but not limited to –
  - costs incurred in connection with the appointment of the environmental assessment practitioner or any person contracted by the environmental assessment practitioner;
  - costs incurred in respect of the undertaking of any process required in terms of the Regulations;
  - costs in respect of any fee prescribed by the Minister or MEC in respect of the Regulations;
  - costs in respect of specialist reviews, if the competent authority decides to recover costs; and
  - the provision of security to ensure compliance with conditions attached to an environmental authorisation, should it be required by the competent authority;
- will ensure that the environmental assessment practitioner is competent to comply with the requirements of the Regulations and will take reasonable steps to verify that the EAP
  - know the Act and the regulations, and how they apply to the proposed development
  - know any applicable guidelines
  - perform the work objectively, even if the findings do not favour the applicant
  - disclose all information which is important to the application and the proposed development
  - have expertise in conducting environmental impact assessments
  - complies with the Regulations
- will inform all registered interested and affected parties of any suspension of the application as well as of any decisions taken by the competent authority in this regard;
- am responsible for complying with the conditions of any environmental authorisation issued by the competent authority;
- hereby indemnify the Government of the Republic, the competent authority and all its officers, agents and employees, from any liability arising out of the content of any report, any procedure or any action which the applicant or environmental assessment practitioner is responsible for in terms of these Regulations;
- will not hold the competent authority responsible for any costs that may be incurred by the applicant in proceeding with an activity prior to obtaining an environmental authorisation or prior to an appeal being decided in terms of these Regulations;
- will perform all other obligations as expected from an applicant in terms of the Regulations;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.

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<sup>1</sup> If this is signed on behalf of the applicant, proof of such authority from the applicant must be attached.

<sup>2</sup> If exemption is obtained from appointing an EAP, the responsibilities of an EAP will automatically apply to the person conducting the environmental impact assessment in terms of the Regulations.

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Signature<sup>3</sup> of the applicant<sup>4</sup>/ Signature on behalf of the applicant:

**Eskom Holdings SOC Limited**

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Name of company (if applicable):

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Date:

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<sup>3</sup> Only original signatures will be accepted. No scanned, copied or faxed signatures will be accepted.

<sup>4</sup> If the applicant is a juristic person, a signature on behalf of the applicant is required as well as proof of such authority. An EAP may not sign on behalf of an applicant.

**APPENDIX 9  
DECLARATION OF THE EAP**

I, Ryan Emslie Jonas declare that –

General declaration:

- I act as the independent environmental practitioner in this application
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting environmental impact assessments, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I will take into account, to the extent possible, the matters listed in regulation 8 of the Regulations when preparing the application and any report relating to the application;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- I will ensure that information containing all relevant facts in respect of the application is distributed or made available to interested and affected parties and the public and that participation by interested and affected parties is facilitated in such a manner that all interested and affected parties will be provided with a reasonable opportunity to participate and to provide comments on documents that are produced to support the application;
- I will ensure that the comments of all interested and affected parties are considered and recorded in reports that are submitted to the competent authority in respect of the application, provided that comments that are made by interested and affected parties in respect of a final report that will be submitted to the competent authority may be attached to the report without further amendment to the report;
- I will keep a register of all interested and affected parties that participated in a public participation process; and
- I will provide the competent authority with access to all information at my disposal regarding the application, whether such information is favourable to the applicant or not
- all the particulars furnished by me in this form are true and correct;
- will perform all other obligations as expected from an environmental assessment practitioner in terms of the Regulations; and
- I realise that a false declaration is an offence in terms of regulation 48 of the Regulations and is punishable in terms of section 24F of the Act.

**Disclosure of Vested Interest (delete whichever is not applicable)**

- I do not have and will not have any vested interest (either business, financial, personal or other) in the proposed activity proceeding other than remuneration for work performed in terms of the Regulations.

A handwritten signature in black ink, appearing to read 'R. J. ...', is written over a horizontal line.

Signature of the environmental assessment practitioner:

**WorleyParsons RSA (Pty) Ltd. trading as Advisian**

Name of company:

**2017/04/05**

Date: