

REVIEW OF THE FINAL ENVIRONMENTAL IMPACT REPORTS AND CLIMATE CHANGE IMPACT ASSESSMENT: NUCLEAR-1 PROJECT, DUYNEFONTEIN, WESTERN CAPE



Vegetation at the Duynefontein Site

**PUBLIC OPEN DAY
7 August 2023**

WELCOME TO THE NUCLEAR-1 PUBLIC OPEN DAY

PURPOSE OF THE OPEN DAY:

- ❖ To provide a forum for stakeholders to discuss the findings of the Environmental Impact Assessment (EIA) Review Report and Climate Change Impact Assessment (CCIA).
- ❖ The independent environmental consultants (SRK) and proponent (Eskom) are at the Open Day to discuss these findings and answer your questions.



PLEASE:

- ❖ Fill in the attendance register.
- ❖ Read about the findings of the EIA Review.
- ❖ Read about the findings of the CCIA.
- ❖ Discuss issues and concerns with the team.
- ❖ Submit all comments by completing the online form on SRK's website or by submitting written comments (see last poster).

SEQUENCE OF POSTER PRESENTATION

POSTERS ARE SEQUENCED AS FOLLOWS:

- ❖ Posters providing background information.
- ❖ Posters providing information about the reviews of the EIA Report and specialist studies.
- ❖ Posters providing information about the CCIA compiled by Promethium.
- ❖ Posters indicating how stakeholders can participate.



Pylons near the Duynefontein

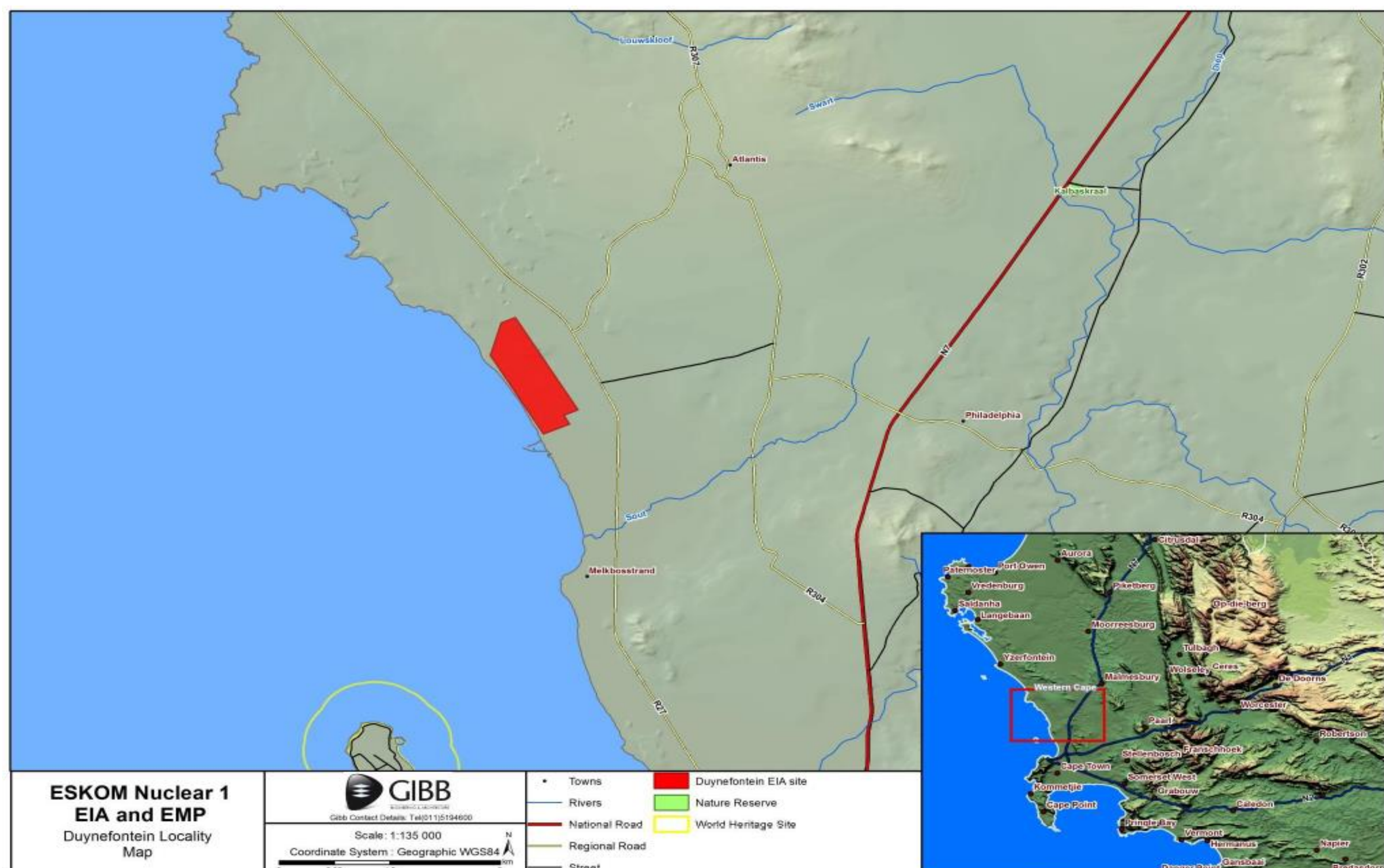
BACKGROUND

- ❖ Eskom appointed ARCUS GIBB (Pty) Ltd (now GIBB) to undertake an EIA for the proposed construction, operation and decommissioning of a **new nuclear power station** (Nuclear-1) and associated infrastructure.
- ❖ The EIA assessed three alternative sites:
 - ❖ Thyspunt in the Eastern Cape.
 - ❖ Duynefontein in the Western Cape.
 - ❖ Bantamsklip in the Western Cape.
- ❖ In 2017, the Department of Forestry, Fisheries and the Environment (DFFE) granted an **Environmental Authorisation (EA)** for a proposed nuclear plant at Duynefontein.



BACKGROUND

- ❖ The EA was **appealed** and in August 2022, DFFE **adjourned** the appeal process to afford Eskom an opportunity to commission **additional studies** (for the Duynefontein site) to inform the Minister's final decision on the appeal process.
- ❖ Additional studies required included:
 - ❖ An **independent review** of the specialist studies, the Environmental Impact Report (EIR) and the Environmental Management Programme (EMPr) compiled for the original EIA.
 - ❖ A **CCIA** study.



Duynefontein Locality Map

SCOPE OF WORK

The Scope of Work (SoW) to inform the Minister's decision on the appeal process is to:

- ❖ **Review** specialist studies, the EIR and the EMPr to determine risks of not updating reports and determine if the risks (if any) need to be mitigated.
- ❖ Compile a **report** documenting the findings of the review and recommend methods to address any gaps.
- ❖ Undertake a **CCIA**.
- ❖ Conduct a public participation process, as per the EIA Regulations (2014), as amended.



Duynefontein fenceline

SCOPE OF WORK

- ❖ The purpose of the current public participation process is to solicit comments **only on the reviews** in the Review Report compiled by SRK, **and the CCIA** compiled by Promethium.
- ❖ The current public participation process is **NOT intended to:**
 - ❖ Reopen comment on issues previously identified and assessed in the EIA undertaken by GIBB.
 - ❖ Open discussion on the accuracy of detailed technical information in the EIA Report, EMPr and specialist studies.
 - ❖ Open discussion regarding the appeal process.
 - ❖ Assess the project motivation e.g. appropriate energy mixes (e.g. coal, gas, nuclear, renewables).
 - ❖ Discuss any aspects of the existing Koeberg power plant or the ongoing NNR licensing process for new build at Koeberg.



Paintbrush lily (*Haemanthus coccineus*) at Duynefontein

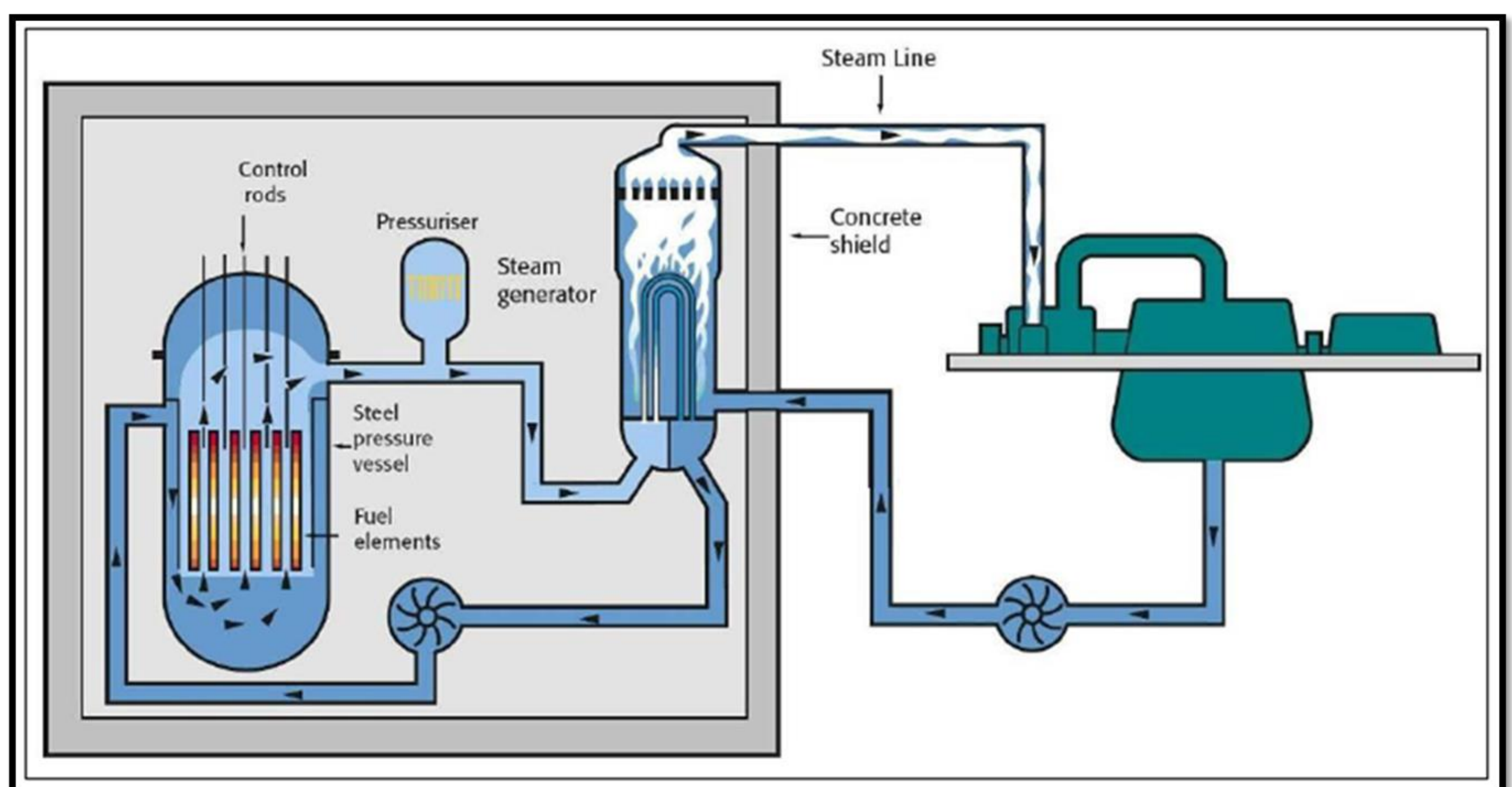
PROJECT DESCRIPTION

- ❖ The proposed Nuclear-1 Project will comprise (inter alia):
 - ❖ A Nuclear Reactor.
 - ❖ Turbine Halls.
 - ❖ Fuel Storage Facilities.
 - ❖ Waste Handling Facilities.
 - ❖ Marine Intake and Outfall Structures to abstract and discharge cooling water.
 - ❖ A Desalinisation Plant.
 - ❖ Power Lines within the Plant Site.
 - ❖ Roads, High Voltage Yard and other auxiliary service infrastructure.
- ❖ If authorised, construction of Nuclear-1 is expected to extend over approximately nine years.
- ❖ The total footprint required for the 4 000 MW Nuclear-1 at Duynefontein is ~265 ha.



PROJECT DESCRIPTION

- ❖ Eskom proposes to construct, operate and decommission a conventional nuclear power station at Dufnefontein, in order to meet the total demand for electricity.
- ❖ For Nuclear-1, Eskom chose Pressurised Water Reactor (PWR) technology, which uses water as a coolant and moderator.
- ❖ PWRs are the most commonly used nuclear reactors internationally.
- ❖ Eskom is familiar with this technology, having used it for the past ~39 years at the Koeberg Nuclear Power Station (KNPS).



Simplified diagrammatic depiction of a PWR

EIR, EMP_r AND SPECIALIST STUDY REVIEW

- ❖ The EIR identified and assessed approximately 200 impacts for the Duynefontein site.
- ❖ The EMP_r contains mitigation measures to ensure that the environmental impacts of the proposed Nuclear Power Station are mitigated.
- ❖ Following mitigation, the majority of impacts were rated to be of medium or lower significance, with only one (destruction of landscape) of high significance.
- ❖ SRK conducted a **gap analysis** assessing whether the EIR, EMP_r and specialist studies undertaken over 10 years ago are fit-for-purpose in 2023.
- ❖ The specialist studies commissioned for the EIA process were categorised (by SRK) as follows:
 - ❖ Nineteen **Specialist Impact Studies** assessing the impact of Nuclear-1 on the environment; and
 - ❖ Twelve **Technical Studies**, often technical investigations and/or risk assessments evaluating risks posed by the environment to Nuclear-1.

SPECIALIST IMPACT ASSESSMENT STUDIES REVIEWED

❖ Specialist Impact Assessment studies reviewed:

- ❖ Dune Geomorphology
- ❖ Hydrology
- ❖ Geohydrology
- ❖ Oceanography
- ❖ Radiology
- ❖ Air Quality
- ❖ Noise
- ❖ Botany and Dune Ecology
- ❖ Town Planning
- ❖ Freshwater Ecology and Wetlands
- ❖ Vertebrate Fauna
- ❖ Invertebrate Fauna
- ❖ Marine Ecology
- ❖ Social
- ❖ Economic
- ❖ Visual
- ❖ Heritage
- ❖ Agricultural
- ❖ Transportation

❖ Technical Assessments reviewed:

- ❖ Geological Hazard
- ❖ Emergency Response
- ❖ Geotechnical Suitability
- ❖ Emergency Response
- ❖ Freshwater Supply
- ❖ Seismic Risk
- ❖ Site Control
- ❖ Transmission Integration
- ❖ Radioactive Waste Management
- ❖ Beyond Design Accident Report
- ❖ Human Health Risk
- ❖ Position of 1:100 Sea Floodline

REVIEW TEAM

Name	Organisation	Studies Reviewed
Chris Dalgliesh	SRK	<ul style="list-style-type: none"> • Economic Assessment • EIR • EMPr
Sharon Jones	SRK	<ul style="list-style-type: none"> • EIR
Kate Steyn	SRK	<ul style="list-style-type: none"> • Freshwater Ecology and Wetlands Monitoring Report • Vertebrate Fauna Assessment • Invertebrate fauna Assessment
Jennifer Barnard	SRK	<ul style="list-style-type: none"> • Dune Geomorphology Assessment • Marine Ecology Assessment • Oceanographic Assessment • Agricultural Impact Assessment • Radioactive Waste Management • EIR
Rob Gardiner	SRK	<ul style="list-style-type: none"> • Hydrological Assessment • Geohydrological Assessment • Freshwater Supply • Position of 1:100 Sea Floodline • Social Impact Assessment
Nicola Rump	SRK	<ul style="list-style-type: none"> • Botany and Dune Ecology Assessment • Heritage Impact Assessment
Hasheel Tularam	SRK	<ul style="list-style-type: none"> • Air Quality Assessment • Noise Assessment

REVIEW TEAM

Name	Organisation	Studies Reviewed
Bruce Engelsman	SRK	<ul style="list-style-type: none">• Geological Hazard Assessment• Seismic Risk Assessment• Geotechnical Suitability Assessment• Site Control Report
Kelly Armstrong	SRK	<ul style="list-style-type: none">• Visual Impact Assessment
Dr. Dawid de Villiers	SciRAD Consulting	<ul style="list-style-type: none">• Radiological Impact Assessment• Emergency Response Report• Beyond Design Accident Report
Chanel Barnard	Urban-Econ	<ul style="list-style-type: none">• Tourism Assessment
Dr. Johan Christoff Krogscheepers	Innovative Transport Solutions	<ul style="list-style-type: none">• Transportation Assessment
Tim Florence	Planning Partners	<ul style="list-style-type: none">• Town Planning Report
Dr. Willie van Niekerk	Infotox	<ul style="list-style-type: none">• Human Health Risk Assessment
Ahmed Hansa	Eskom	<ul style="list-style-type: none">• Transmission Integration Report

REGULATORY CONTEXT FOR THE REVIEW

- ❖ The EIA Regulations, 2006 (GN R385 of 2006), promulgated in terms of NEMA, governed the Nuclear-1 EIA undertaken by GIBB.
- ❖ Subsequently, the EIA Regulations, 2014, other new regulatory requirements, specialist study regulations, specialist reporting protocols (GN 320, 2022) and standards have come into effect.
- ❖ The NEMA 2014 EIA regulations include **transitional arrangements** and explicitly state that “*An application submitted in terms of the previous NEMA regulations...must be dispensed with in terms of those previous NEMA regulations...*”

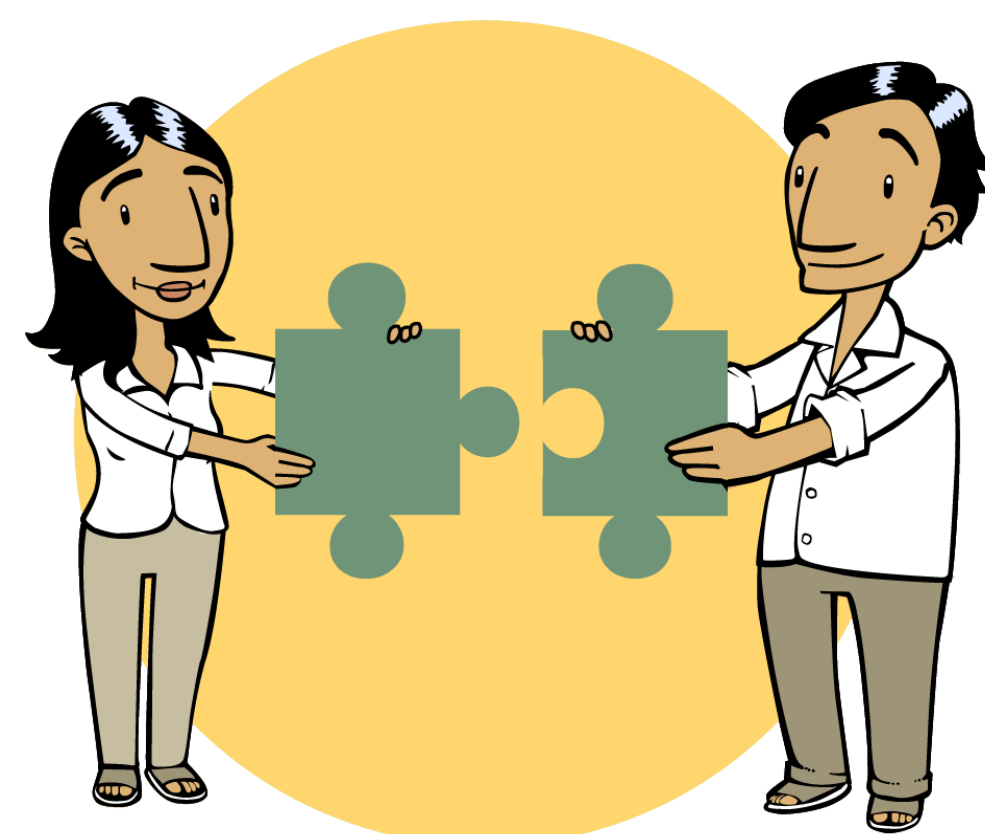
To that end, the review focuses on:

- ❖ The extent to which the EIA, undertaken in terms of the 2006 EIA Regulations, is aligned with the intent and 'spirit' of the EIA Regulations, 2014:
- ❖ Alignment with and applicability of 'the spirit' and intent of (new) specialist study regulations and reporting protocols.

REVIEW APPROACH AND METHODOLOGY

THE REVIEW CONSIDERS:

- ❖ Whether old information is still **suitable**:
 - ❖ Is baseline information and data in the Nuclear EIA adequate or have conditions changed so considerably that the information may compromise the original EA.
- ❖ The **materiality** of the information:
 - ❖ Does the status of the information in the EIR or a study affect impacts of the project, increasing the risk that the project will not withstand further appeals in future.
- ❖ Whether data deficiencies and risks can be addressed:
 - ❖ Through new conditions attached to the EA and/or appeal decision.
 - ❖ By a new application for EA (i.e. a new EIA process).
 - ❖ By updating the EMPr.
 - ❖ Through a Specialist Study Addendum.
 - ❖ By implementing and disclosing a Grievance Redress Mechanism and reacting to valid grievances as they arise.
 - ❖ Through another legislative process (e.g. land use application).
 - ❖ Some other process.



SCOPE OF THE REVIEW

THE REVIEW:

- ❖ Recognises that the Nuclear-1 EIA could not and, in law, **does not need to** comply with instruments which came into effect after the Nuclear-1 EIA commenced.
- ❖ **Does not assess the correctness or accuracy** of information presented in the EIA Report or specialist reports which were very thoroughly reviewed during the EIA process.
- ❖ **Assumes that the EIA process**, stakeholder engagement, EIR and specialist studies were comprehensive, **legally compliant** and fit-for-purpose when EA was granted in October 2017.
- ❖ Is not a technical review, but rather a process review, in effect a **gap analysis** assessing whether EIAs and associated studies undertaken over 10 years ago are fit-for-purpose in 2023.

REVIEW CONCLUSIONS: EIR

- ❖ The **project description** in the FEIR remains valid.
- ❖ **No material changes** to the **baseline** have occurred.
- ❖ A robust impact assessment **methodology** was employed, and relevant impacts were assessed. **No material omissions** were identified.
- ❖ Statements in the FEIR regarding the **energy mix** and integration into the energy grid may be outdated and should rather be informed by the updated IRP.
- ❖ The original **public participation process** provided DFFE with a comprehensive understanding of stakeholder interest to inform decision making.
- ❖ The EIA process was **adequate** to meet requirements in terms of the EIA Regulations, 2014.
- ❖ The assumptions and limitations as well as the conclusions and recommendations in the FEIR remain valid and the **FEIR is fit-for-purpose** to inform a decision.

REVIEW CONCLUSIONS: EMPr AND SPECIALIST STUDIES

- ❖ The **EMPr** is a dynamic document which will need to be routinely updated by Eskom as new information becomes available.
- ❖ All specialist reviews concluded that specialist reports are **suitable** for decision making.
- ❖ The majority of **specialist reviewers did not recommend any updates** to the studies, however:
 - ❖ The Economic Impact Assessment found that nuclear is the cheaper and more appropriate (energy generation) option, a conclusion which may no longer be valid. The specialist reviewer recommends that the Minister must consider the IRP (DoE, 2019).
 - ❖ The reviewer of the 1:100 year flood line recommends that Nucear-1 design complies with recommendations in separate Site Safety Reports (SSRs) commissioned for a Nuclear Power Station at Duynefontein.
 - ❖ The Grid Integration Report specialist review, which recommended a new Grid Integration Study.

RECOMMENDATIONS: ESKOM

The principal recommendations are that **Eskom** must:

- ❖ Acquire relevant (environmental) **permits and licenses**, in terms of the legislation applicable.
- ❖ Ensure that the Nuclear Power Plant design complies with recommendations in separate SSRs commissioned for a Nuclear Power Station at Duynefontein.
- ❖ Commission a new **Grid Integration Study** once the appeal process is finalized incorporating the most recent data for Nuclear-1.
- ❖ **Update the EMPr** as new information becomes available, e.g. once a vendor is appointed and detailed design is finalised.

RECOMMENDATIONS: APPEAL PROCESS

The principal recommendations in terms of **adjudicating the appeal** are that the FEIR remains valid and is fit-for-purpose to inform a decision, subject to:

- ❖ Eskom implementing SRK's recommendations.
- ❖ The Minister considering Section 34(1) issued in accordance with the Electricity Regulation Act of 2006 for 2 500 MW new nuclear.
- ❖ The Minister considering the IRP 2019 which considers a mix of energy sources.



Dunes and the Koeberg Nuclear Power Station in the background

WAY FORWARD

❖ The Review Report and the CCIA are available for review at :

- ❖ Atlantis Avondale Public Library.
- ❖ Cape Town Central Library.
- ❖ Koeberg Public Library.
- ❖ Tableview Public Library.
- ❖ SRK's Rondebosch office.
- ❖ SRK's website: www.srk.co.za.
- ❖ Eskom's website: www.eskom.co.za.

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- ❖ Please submit all comments **in writing**.
- ❖ All comments and responses will be included in an Issues and Responses Summary.
- ❖ The Final Review Report and CCIA (including all stakeholder comments) will be made available for information and submitted to the Minister for a decision.
- ❖ Comment period ends **23 August 2023**. All written comments can be addressed to **Asheerah Meyer** at SRK Consulting.

Fax: 021 685 7105
Tel: 021 659 3060
email: ctpp@srk.co.za

SRK Consulting
Postnet Suite #206,
Private Bag X18,
Rondebosch 7701

HERSIENING VAN FINALE OMGEWINGSIMPAK-VERSLAE EN KLIMAATSVERANDERING- IMPAKASSESSERING: NUCLEAR- 1- PROJEK, DUYNEFONTEIN, WES-KAAP



Plantegroei by die Duynefontein-aanleg

**PUBLIEKE OPEDAG
7 Augustus 2023**

WELKOM BY DIE NUCLEAR-1- PUBLIEKE OPEDAG

DOEL VAN DIE OPEDAG:

- ❖ Om 'n forum te bied vir belanghebbers om die bevindinge van die Omgewingsimpakassessering (EIA) se Hersieningsverslag en Klimaatsveranderingimpakassessering (CCIA) te bespreek.
- ❖ Die omgewingskonsultante (SRK) en die voorsteller (Eskom) is by die opedag om die bevindinge te bespreek en u vrae te beantwoord.

DOEN ASSEBLIEF DIE VOLGENDE:

- ❖ Voltooi die bywoningsregister.
- ❖ Lees omtrent die bevindinge van die EIA-hersiening.
- ❖ Lees omtrent die bevindinge van die CCIA.
- ❖ Bespreek vraagstukke en bekommernisse met die span.
- ❖ Dien alle kommentaar in deur die aanlynvorm op die SRK-webwerf te voltooi of deur skriftelik kommentaar te lewer (sien laaste plakkaat).

VOLGORDE VAN PLAKKAAT-AANBIEDING

DIE VOLGORDE VAN DIE PLAKKATE IS SOOS VOLG:

- ❖ Plakkate wat agtergrondinligting bied.
- ❖ Plakkate wat inligting bied omtrent die hersienings van die EIA-verslag en spesialisstudies.
- ❖ Plakkate wat inligting bied omtrent die CCIA saamgestel deur Promethium.
- ❖ Plakkate wat aandui hoe belanghebbers kan deelneem.



Kragmaste naby die Duynefontein

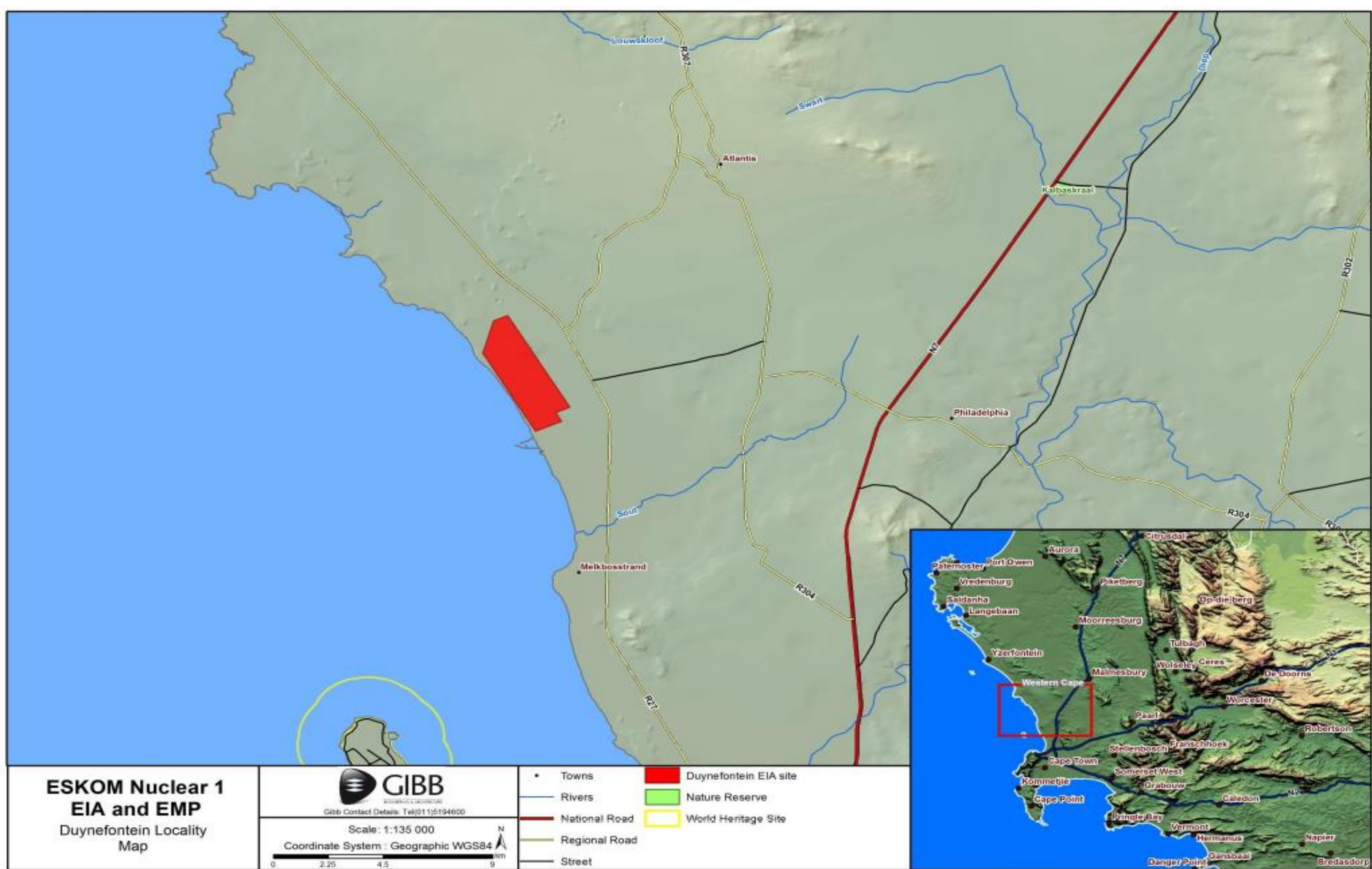
AGTERGROND

- ❖ Eskom het ARCUS GIBB (Pty.) Ltd (nou GIBB) aangestel om 'n EIA te onderneem vir die beoogde konstruksie, bedryf en ontmanteling van 'n **nuwe kernkragstasie** (Nuclear-1) en gepaardgaande infrastruktuur.
- ❖ Die EIA het drie alternatiewe geassesseer:
 - ❖ Thyspunt in die Oos-Kaap.
 - ❖ Duynefontein in die Wes-Kaap.
 - ❖ Bantamsklip in die Wes-Kaap.
- ❖ In 2017 het die Departement van Bosbou, Visserye en die Omgewing (DFFE) **Omgewingsmagtiging (EA) verleen** vir 'n voorgestelde kernkragaanleg by Duynefontein.



AGTERGROND

- ❖ Daar is teen die EA **appèl aangeteken** en in Augustus 2022 het die DFFE die appèlproses **verdaag** om Eskom 'n geleentheid te bied om opdrag te gee vir **addisionele studies** (vir die Duynefontein-aanleg) om die Minister se finale besluit oor die appèlproses nader in te lig.
- ❖ Addisionele studies benodig, het ingesluit:
 - ❖ 'n **Onafhanklike** hersiening **van die spesialisstudies**, die omgewingsimpakverslag (EIR) en die Omgewingsbestuursprogram (EMPr) wat vir die oorspronklike EIA-studie saamgestel is.
 - ❖ 'n **CCIA-studie**.



Duynefonteinliggignskaart

OMVANG VAN WERK

Die omvang van die werk (SoW) is om die Minister se besluit oor die appèlproses nader in te lig deur:

- ❖ **Spesialisstudies**, die EIR en die EMPr te hersien om risiko's van versuim van opdatering van verslae te identifiseer en vas te stel of die risiko's (indien enige) versag moet word.
- ❖ 'n **Verslag** saam te stel wat die bevindinge van die hersienings dokumenteer en metodes aan te beveel om enige leemtes aan te spreek.
- ❖ 'n **CCIA** te onderneem.
- ❖ 'n Publieke deelnameproses uit voer, volgens die EIA-regulasies (2014), soos gewysig.



Duynefontein-grensdraad

OMVANG VAN WERK

- ❖ Die doel van die huidige proses van publieke deelname is **slegs om** kommentaar te vra **op die** hersienings in die hersieningsverslag wat deur SRK saamgestel is, en die **CCIA** saamgestel deur Promethium.
- ❖ Die huidige publieke deelnameproses **het NIE ten doel:**
 - ❖ Om kommentaar te heropen oor kwessies wat voorheen geïdentifiseer en evalueer is in die OIB wat deur GIBB onderneem is nie.
 - ❖ Om bespreking te open oor die akkuraatheid van gedetailleerde tegniese inligting in die EIA-verslag, EMPr en spesialisstudies nie.
 - ❖ Om bespreking te open oor die appèlproses nie.
 - ❖ Om die projekmotivering, soos byvoorbeeld toepaslike energievermengings (bv. steenkool, gas, kern, hernubare bronne) te assesser nie.
 - ❖ Om enige aspekte van die bestaande Koeberg-kragaanleg of die ongoing NNR-lisensiëringsproses vir nuwebou by Koeberg te bespreek nie.

PROJEKBESKRYWING

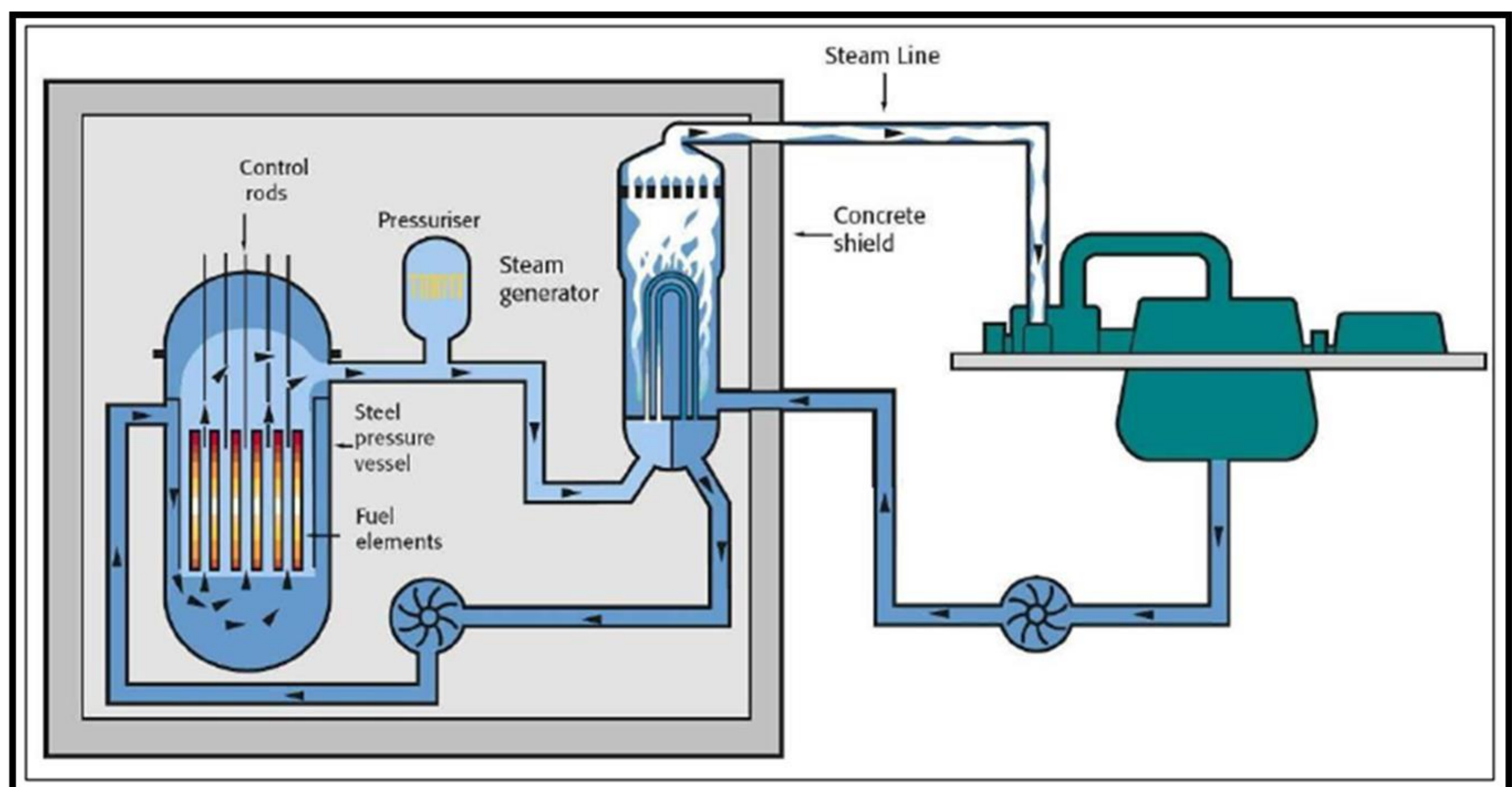
- ❖ Die voorgestelde Nuclear-1-projek sal onder meer bestaan uit:
 - ❖ 'n Kernreaktor.
 - ❖ Turbinesale.
 - ❖ Brandstofbergingsfasiliteite.
 - ❖ Afvalhanteringsfasiliteite.
 - ❖ Mariene inname- en uitlaatstrukture om koelwater te onttrek en af te voer.
 - ❖ 'n Ontsoutingsaanleg.
 - ❖ Kraglyne binne die aanlegterrein.
 - ❖ Paaie, hoogspanningswerf en ander hulpdiens-infrastruktuur.
- ❖ Indien gemagtig, sal die konstruksie van Nuclear-1 na verwagting oor ongeveer nege jaar strek.
- ❖ Die totale voetspoor benodig vir die 4 000 MW Nuclear-1 by Duynefontein is ~265 ha.



Bloedlelie (*Haemanthus coccineus*) by Duynefontein

PROJEBESKRYWING

- ❖ Eskom stel voor om 'n konvensionele kernkragstasie by Duynefontein te bou, te bedryf en uit diens te stel om in die totale vraag na elektrisiteit te voorsien.
- ❖ Eskom het drukwaterreaktor-tegnologie (PWR-) vir Nuclear-1 gekies wat water as 'n koeler en moderator gebruik.
- ❖ PWR's is die mees algemeen gebruikte kernreaktors internasionaal.
- ❖ Eskom is bekend met dié tegnologie en het dit vir die afgelope 39 jaar by die Koeberg-kernkragstasie (KNPS) gebruik.



Vereenvoudigds diagrammatiese voorstelling van 'n PWR

EIR, EMP_r EN SPESIALIS-STUDIE-HERSIENING

- ❖ Die EIA het ongeveer 200 impakte vir die Duynfontein-aanleg geïdentifiseer en geassesseer.
- ❖ Die EMP_r bevat versagtende maatreëls om te verseker dat die omgewingsimpakte van die voorgestelde kernkragstasie versag word.
- ❖ Na versagting is die meeste impakte as gemiddeld of minder betekenisvol beskou, met slegs een (vernietiging van landskap) van hoë relevansie.
- ❖ SRK het 'n **leemteanalyse**-assessering gedoen om vas te stel of die EIR, EMP_r en spesialisstudies wat meer as tien jaar gelede onderneem is, in 2023 geskik is vir die doel.
- ❖ Die spesialisstudies wat vir die EIA-proses aangevra is, is soos volg (deur SRK) gekategoriseer:
 - ❖ Negentien **spesialisimpakstudies** wat die impak van Nuclear-1 op die omgewing assesseer; en
 - ❖ Twaalf **tegniese studies**, dikwels tegniese ondersoeke en/of risikobeoordelings wat omgewingsrisiko's vir Nuclear-1 evalueer.

HERSIENE SPESIALIS- IMPAK-ASSESSERINGSTUDIES

❖ Hersiene **spesialisimpakassesseringstudies:**

- ❖ Duinegeomorfologie
- ❖ Hidrologie
- ❖ Geohidrologie
- ❖ Oseanografie
- ❖ Radiologie
- ❖ Lugkwaliteit
- ❖ Geraas
- ❖ Botaniese en duine-ekologie
- ❖ Dorpsbeplanning
- ❖ Varswaterekologie en vleilande
- ❖ Gewerwelde diere
- ❖ Ongewerwelde diere
- ❖ Mariene ekologie
- ❖ Maatskaplik
- ❖ Ekonomies
- ❖ Visueel
- ❖ Erfenis
- ❖ Landboukundig
- ❖ Vervoer

❖ Hersiene **Tegniese assesserings:**

- ❖ Geologiese gevaar
- ❖ Noodrespons
- ❖ Geotegniese geskiktheid
- ❖ Noodrespons
- ❖ Radioaktiewe afval Bestuur
- ❖ Menslike gesondheidsrisiko
- ❖ Varswatertoevoer
- ❖ Seismiese risiko
- ❖ Aanlegbeheer
- ❖ Transmissie-integrering
- ❖ Beyond Design Accident- verslag
- ❖ Posisie van 1:100-seevloedlyn

HERSIENINGSPAN

Naam	Organisasie	Hersiene studies
Chris Dalgliesh	SRK	<ul style="list-style-type: none"> • Ekonomiese assessering • EIR • EMPr
Sharon Jones	SRK	<ul style="list-style-type: none"> • EIR
Kate Steyn	SRK	<ul style="list-style-type: none"> • Varswaterekologie- en vleiland-moniteringsverslag • Welweldier-assessering • Ongewerweldedier-assessering
Jennifer Barnard	SRK	<ul style="list-style-type: none"> • Duinegeomorfologiese-assessering • Mariene ekologiese-assessering • Oseanografiese assessering • Landboukundige limpakassessering • Radioaktiewe afvalbestuur • EIR
Rob Gardiner	SRK	<ul style="list-style-type: none"> • Hidrologiese assessering • Geohidrologiese assessering • Varswatertoevoer • Posisie van 1:100-seevloedlyn • Maatskaplike impakassessering
Nicola Rump	SRK	<ul style="list-style-type: none"> • Botaniese en duine-ekologiese assessering • Erfenisimpakassessering
Hasheel Tularam	SRK	<ul style="list-style-type: none"> • Lugkwaliteitsassessering • Geraasassessering

HERSIENINGSPAN

Name	Organisasie	Hersiene studies
Bruce Engelsman	SRK	<ul style="list-style-type: none"> • Geologiese gevaarassessment • Seismiese risiko-assessering • Geotegniese geskiktheidsassessment • Aanlegbeheerverslag
Kelly Armstrong	SRK	<ul style="list-style-type: none"> • Visuele impakassessment
Dr. Dawid de Villiers	SciRAD Consulting	<ul style="list-style-type: none"> • Radiologiese impakassessment • Noodresponsverslag • <i>Beyond Design Accident</i>-verslag
Chanel Barnard	Urban-Econ	<ul style="list-style-type: none"> • Toerisme-assessering
Dr. Johan Christoff Krogscheepers	Innovative Transport Solutions	<ul style="list-style-type: none"> • Vervoerassessment
Tim Florence	Planning Partners	<ul style="list-style-type: none"> • Dorpsbeplanningsverslag
Dr. Willie van Niekerk	Infotox	<ul style="list-style-type: none"> • Menslikegesondheidsrisiko-assessering
Ahmed Hansa	Eskom	<ul style="list-style-type: none"> • Transmissie-integreringsverslag

REGULATORIESE KONTEKS VIR DIE HERSIENING

- ❖ Die EIA-regulasies, 2006 (GN R385 van 2006), gepromulgeer ingevolge NEMA, het die Nuclear-1 EIA beheer wat deur GIBB onderneem is.
- ❖ Daarna het die EIA-regulasies, 2014, ander nuwe regulatoriese vereistes, spesialisstudieregulasies, spesialisverslagdoeningsprotokolle (GN 320, 2022) en standarde in werking getree.
- ❖ Die NEMA 2014 EIA-regulasies sluit in **oorgangsmatreëls** en stel dit onomwonde dat “An application submitted in terms of the previous NEMA regulations...must be dispensed with in terms of those previous NEMA regulations...”

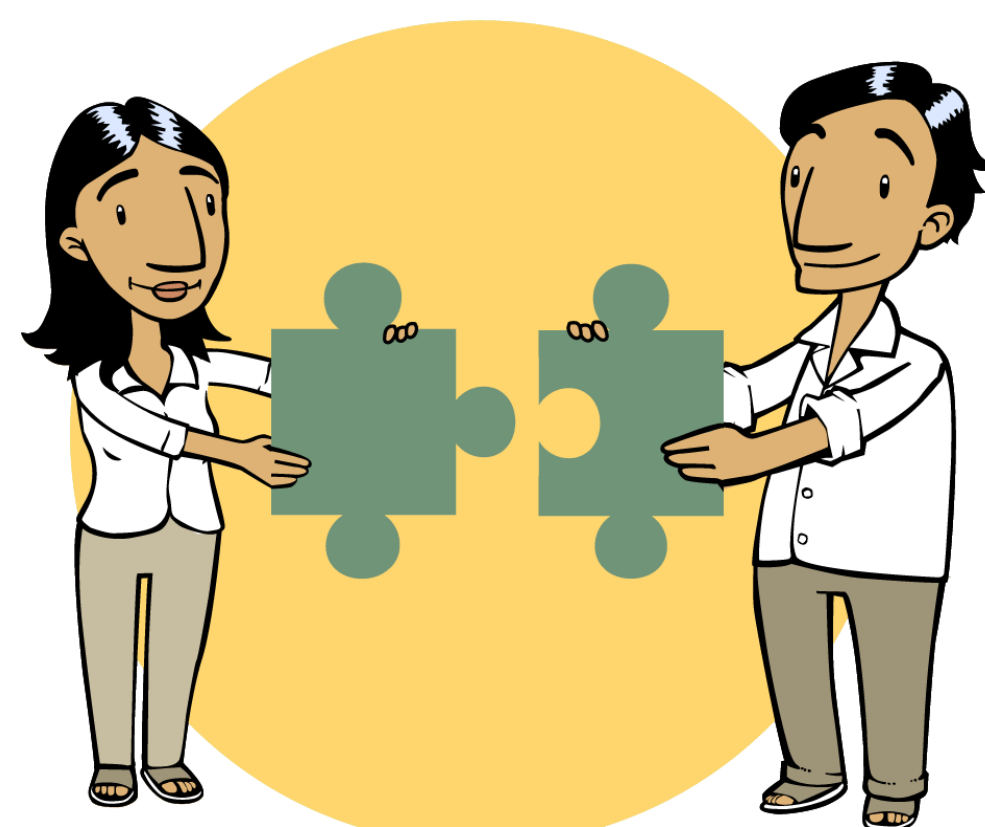
Vir daardie doel is die fokus van die hersiening op:

- ❖ Die mate waartoe die EIA, onderneem ingevolge die EIA-regulasies 2006, belyn is met die bedoeling en 'gees' van die EIA-regulasies, 2014.
- ❖ Belyning met en toepaslikheid van 'die gees' en bedoeling van (nuwe) spesialisstudieregulasies en verslagdoeningsprotokolle.

HERSIENINGSBENADERING EN METODOLOGIE

DIE HERSIENING OORWEEG:

- ❖ Of ou inligting steeds **geskik** is.
 - ❖ Is basislyninligting en data in die kern-EIA voldoende of het toestand so aansienlik verander dat die inligting die oorspronklike EA kan kompromitteer.
- ❖ Die **wesenlikheid** van die inligting:
 - ❖ Affekteer die status van die inligting in die EIR of 'n studie die impakte van die projek wat die risiko verhoog dat die projek in die toekoms nie kan weerstand bied teen nog appèlle nie.
- ❖ Of datatekortkominge en risiko's aangespeek kan word:
 - ❖ Deur nuwe voorwaardes verbonde aan die EA en/of appèlbesluit.
 - ❖ Deur 'n nuwe aansoek vir EA (d.w.s. 'n nuwe EIA-proses).
 - ❖ Deur opdatering van die EMPr.
 - ❖ Deur 'n spesialisstudie-bylaag.
 - ❖ Deur 'n grieweregstellingmeganisme te implementeer en bekend te maak en op geldige griewe te reageer soos dit ontstaan.
 - ❖ Deur 'n ander wetgewende proses (bv. grondgebruikaansoek).
 - ❖ 'n Ander proses.



OMVANG VAN DIE HERSIENING

DIE HERSIENING

- ❖ Erken dat die Nuclear-1 EIA, volgens wetgewing, **nie hoef te** voldoen aan instrumente wat in werking getree het nadat die Nuclear-1 EIA 'n aanvang geneem het nie.
- ❖ **Assesseer nie die korrektheid of akkuraatheid** van inligting wat in die EIA-verslag of spesialisverslae aangebied word wat baie deeglik tydens die EIA-proses hersien is nie.
- ❖ **Veronderstel dat die EIA-proses,** belanghebbersbetrokkenheid, EIR en spesialisstudies omvattend, aan die Wet voldoen en geskik was vir die doel toe EA in Oktober 2017 toegestaan is.
- ❖ Is nie 'n tegniese hersiening nie, maar eerder 'n proses Hersiening, in werklikheid 'n **leemteanalise** wat bepaal of EIA's en verwante studies wat meer as 10 jaar gelede onderneem is, in 2023 geskik is vir die doel.

HERSIENINGS- GEVOLGTREKKINGS: EIR

- ❖ Die **projekbeskrywing** in die FEIR bly geldig.
- ❖ **Geen wesenlike veranderinge** aan die **basislyn** het plaasgevind nie.
- ❖ 'n Robuuste impakassesserings**metodologie** is gebruik en relevante impakte is geassesseer. **Geen wesenlike weglatings** is geïdentifiseer nie.
- ❖ Stellings in die FEIR rakende die **energiemengsel** en integrasie in die energienetwerk kan verouderd wees en moet eerder deur die bygewerkte IRP nader belig word.
- ❖ Die oorspronklike **proses van publieke deelname** het aan DFFE 'n omvattende begrip van belanghebbersbelangstelling gebied om besluitneming toe te lig.
- ❖ Die EIA-proses was **voldoende** om aan vereistes ingevolge die EIA-regulasies 2014, te voldoen.
- ❖ Die aannames en beperkings sowel as die gevolgtrekkings en aanbevelings in die FEIR bly geldig en die **FEIR is geskik vir die doel** om 'n besluit nader toe te lig.

HERSIENING GEVOLGTREKKINGS: EMP_r EN SPESIALISSTUDIES

- ❖ Die EMP_r is 'n dinamiese dokument wat gereeld deur Eskom bygewerk sal moet word namate nuwe inligting beskikbaar word.
- ❖ Alle spesialishersieners het tot die gevolgtrekking gekom dat spesialisverslae **geskik** is vir besluitneming.
- ❖ Die meeste **spesialishersieners** het **nie enige opdatering** van die studies **aanbeveel nie**, maar:
 - ❖ Die ekonomiese impakassessering het bevind dat kernkrag die goedkoper en meer gepaste (energie-opwekkings-) opsie is, 'n gevolgtrekking wat moontlik nie meer geldig is nie. Die spesialishersiener beveel aan dat die Minister die IRP moet oorweeg (DvO, 2019).
 - ❖ Die hersiener van die 1:100 jaar-vloedlyn beveel aan dat Nucear-1-ontwerp voldoen aan aanbevelings in afsonderlike Terreinveiligheidsverslae (SSR'e) vir 'n kernkragstasie by Duynefontein.
 - ❖ Die Netwerkindegrasie-spesialishersieningsverslag, wat 'n nuwe Netwerkindegrasiestudie aanbeveel.

AANBEVELINGS: ESKOM

Die belangrikste aanbevelings is dat **Eskom**:

- ❖ Relevante (omgewings-) **permitte en lisensies** ingevolge die toepaslike wetgewing verkry.
- ❖ Verseker dat die ontwerp van die Kernkragstasie voldoen aan aanbevelings in afsonderlike SSR's wat vir 'n kernkragstasie by Duynefontein in gebruik geneem is.
- ❖ Opdrag gee vir 'n nuwe **roosterintegrasiestudie** wat die mees onlangse data vir Nuclear-1 insluit sodra die appèlproses afgehandel is.
- ❖ **Die OBPr opdateer** soos wat nuwe inligting beskikbaar word, bv. sodra 'n verkoper aangestel is en 'n gedetailleerde ontwerp gefinaliseer is.

AANBEVELINGS: APPÈLPROSES

Die vernaamste aanbevelings in terme van die **beregting van die appèl** is dat die FEIR geldig bly en doelgeskik is om 'n besluit nader in te lig, onderhewig aan:

- ❖ Eskom se implementering van die SRK se aanbevelings.
- ❖ Die Minister se oorweging van artikel 34(1) uitgereik in ooreenstemming met die Elektrisiteitsregulering 4 van 2006 2 500 MW Nuwe Kern.
- ❖ Die Minister se oorweging van die IRP 2019 wat 'n mengsel van energiebronne oorweeg.



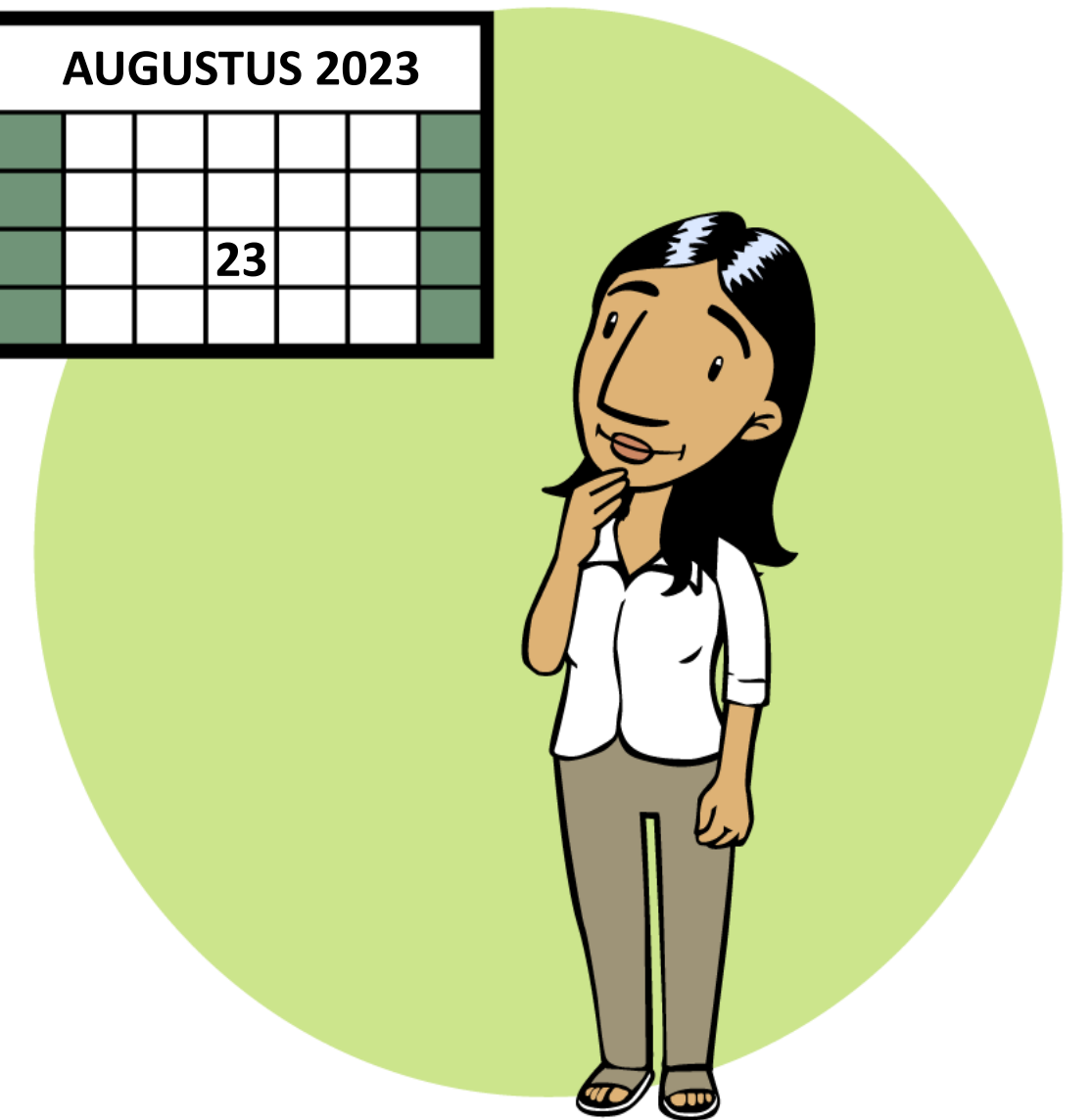
Duine en die Koeberg
kernaanleg in die agtergrond

PAD VORENTOE

❖ Die Hersieningsverslag en CCIA is beskikbaar vir hersiening by:

- ❖ Atlantis Avondale Publieke Biblioteek.
- ❖ Cape Town Central Biblioteek.
- ❖ Koeberg Publieke Biblioteek.
- ❖ Tableview Publieke Biblioteek.
- ❖ SRK se Rondebosch-kantoor.
- ❖ SRK se webwerf: www.srk.co.za.
- ❖ Eskom se webwerf: www.eskom.co.za.

AUGUSTUS 2023						
			23			



- ❖ Dien asseblief alle kommentaar **skriftelik in**.
- ❖ Alle kommentaar en reaksies sal in 'n Opsomming van kwessies en antwoorde ingesluit word.
- ❖ Die finale Hersieningsverslag en CCIA (ingesluit alle belanghebbers se kommentaar) sal beskikbaar gestel word vir inligting en aan die Minister voorgelê word vir 'n besluit.
- ❖ Kommentaartydperk eindig **23 Augustus 2023**. Alle skriftelike kommentaar kan gerig word aan **Asheerah Meyer** by SRK Consulting.

Faks: 021 685 7105
Tel: 021 659 3060
E-pos: ctpp@srk.co.za

SRK Consulting
Postnet Suite #206,
Privaat Sak X18,
Rondebosch 7701

**UQWALASELO KWAKHONA
LWEENGXELO ZEEMPEMBELELO
ZOKUSINGQONGILEYO ZOKUGQIBELA
KUNYE NOHLOLO LWEEMPEMBELELO
ZOTSHINTSHO LWEMOZULU:
KWIPROJEKTHI YENYUKLIYA-1,
EDUYNEFONTEIN, ENTSHONA KOLONI**



Ingca kwiSiza saseDuynefontein

**USUKU OLUVULELWE
UWONKEWONKE
7 Agasti 2023**

SIYANAMKELA KUSUKU OLUVULELWE UWONKEWONKE KWINYUKLIYA-1

INJONGO YOSUKU OLUVULELWE UWONKEWONKE:

- ❖ Ukunika iqonga amahlakani ukuba axoxe ngezinto ezifunyanisiweyo kwiNgxelo yoQwalaselo Kwakhona loHlolo lweMpembelelo zokusiNgqongileyo (Environmental Impact Assessment) (EIA) kunye noHlolo lweMpembelelo zoTshintsho lweMozulu (Climate Change Impact Assessment) (CCIA).
- ❖ Abacebisi ngokusingqongileyo abazimeleyo(i-SRK) kunye nomxhasi (iEskom) bakuSuku oluVulelwe uWonkewonke ukuzokuxoxa ngezi zinto zifunyanisiweyo kuphando kunye nokuphendula imibuzo yakho.

NCEDA:

- ❖ Ugcwalise irejista yabantu abakhoyo.
- ❖ Ufunde ngokufunyanisiweyo kuQwalaselo Kwakhona lwe-EIA.
- ❖ Ufunde ngokufunyaniswe yi-CCIA.
- ❖ Uxoxe ngemiba neenkxalabo neqela.
- ❖ Ungenise zonke izimvo ngokugcwalisa ifom ekwi-intanethi kwiwebhusayithi ye-SRK okanye ngokungenisa izimvo ezibhaliweyo (jonga iposta yokugqibela).



ULANDELELWANO LOKUBEKWA KWEPOSTA

IIPOSTA ZILANDELELANA NJENGOKU KULANDELAYO:

- ❖ liposa ezinika ulwazi lwemvelaphi.
- ❖ liposta ezinika ulwazi malunga noqwalaselo kwakhona lweNgxelo ye-EIA kunye namaphononongo engcali.
- ❖ liposa ezinika ulwazi malunga ne-CCIA equlunqwe yiPromethium.
- ❖ liposta ezikhombisa ukuba anokuyithatha njani inxaxheba amahlakani.



Izakhiwo ezide ezithwala iintambo zombane ngaseDuynefontein

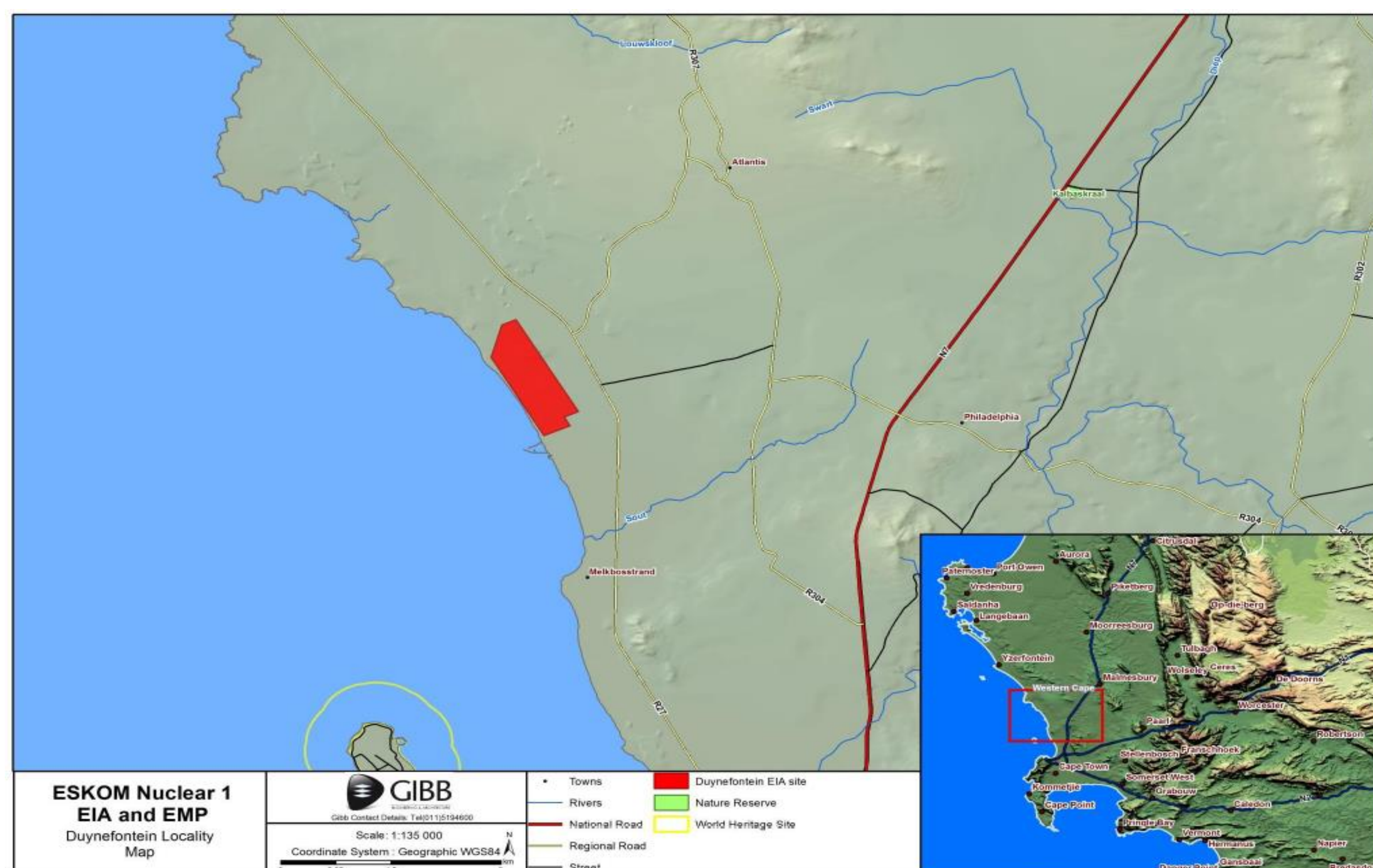
IMVELAPHI

- ❖ IEskom yonyule i-ARCUS GIBB (Pty) Ltd (ngoku eyi-GIBB) ukuba iqalise i-EIA ekwakhiweni okuphakanyiswayo, ukusebenza, nokwenza kukhuseleke **isikhululo samandla ombane senyukliya esiphakanyiswayo esitsha** (iNyukliya-1) kunye nezakhiwo ezinxulumene naso.
- ❖ I-EIA ihlole iziza ezithathu ezizezinye:
 - ❖ IThyspunt eMpuma Koloni.
 - ❖ IDuynefontein eNtshona Koloni.
 - ❖ IBantamsklip eNtshona Koloni.
- ❖ Ngowe-2017, iSebe lezamaHlathi, ukuLoba nokusiNgqongileyo (Department of Forestry, Fisheries and the Environment) (DFFE) lanika **uGunyaziso lokusiNgqongileyo (Environmental Authorisation) (EA)** kumzi mveliso woomatshini benyukliya eDuynefontein.



IMVELAPHI

- ❖ Kwaye kwenziwa **isibheno** kwi-EA kwaze ngoAgasti ka-2022, i-DFFE yayimisela elinye ixesha inkqubo yesibheno ukunika iEskom ithuba lokugunyazisa **amaphononongo awongezelelekileyo** (kwisiza saseDuynefontein) ukuze yazise uMphathiswa ngesigqibo sokugqibela kwinkqubo yesibheno.
- ❖ Amaphononongo awongezelelekileyo afunekayo aquke:
 - ❖ **Uqwalaselo kwakhona oluzimeleyo** lwamaphononongo eengcali, iNgxelo yeeMpembelelo kokusiNgqongileyo (Environmental Impact Report) (EIR) iNkqubo yoLawulo lokusiNgqongileyo (Environmental Management Programme) (EMPr) equlunqwe yi-EIA yokuqala.
 - ❖ Uphononongo **lwe-CCIA**.



IMaphu yeNgingqi yeDuynefontein

ISIKOWUPU SOMSEBENZI

ISikowupu soMsebenzi (Scope of Work) (SoW) ukuseka isigqibo soMphathiswa ngenkqubo yesibheni koku:

- ❖ **Kukuqwalasela kwakhona** amaphononongo eengcali, i-EIR kunye ne-EMPr ukumisela imingcipheko yokungazihlaziyi iingxelo, kunye nokumisela ukuba ingaba imingcipheko (ukuba kukho nayiphi) inokuncitshiswa na.
- ❖ Ukuqulunqa **ingxelo** erekhoda izinto ezifunyanisiweyo kuqwalaselo kwakhona kunye nokuphakamisa iindlela zokuthathela ingqalelo naziphi na izikhewu.
- ❖ Ukuqalisa i-**CCIA**.
- ❖ Ukuqhuba inkqubo yothatho nxaxheba loluntu ngokweMimiselo ye-EIA (2014) njengoko itshintshiwe.



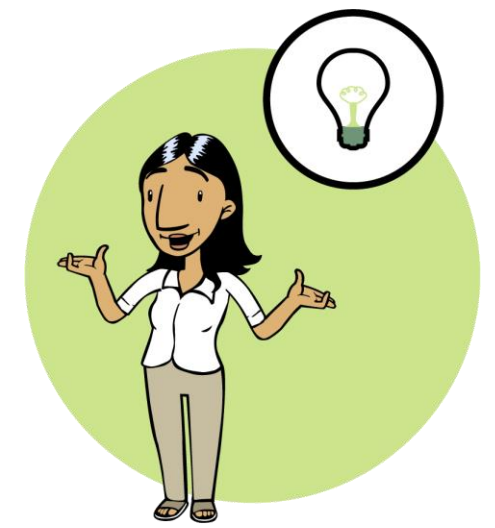
Ucingo olwenza umda eDuynefontein

ISIKOWUPU SOMSEBENZI

- ❖ Injongo yenkqubo yothatho nxaxheba loluntu kukufumana izimvo **kuphela ngoqwalaselo kwakhona kwiNgxelo eQwalaselweyo** Kwakhona equlunqwe yi-SRK, **kunye ne-CCIA** equlunqwe yiPromethium.
- ❖ Inkqubo yothatho nxaxheba loluntu yangoku **AYIJOLISWANGA:**
 - ❖ Ekuvuleni kwakhona izimvo ngemiba echongiweyo ngaphambili kwaye yahlolwa kwi-EIA eqaliswe yi-GIBB.
 - ❖ Ingxoxo evulelekileyo ngokuchaneka kolwazi lobuchwephshe olucazululiweyo kwiNgxelo ye-EIA, EMPr kunye namaphononongo eengcali.
 - ❖ Ingxoxo evulelekileyo ngokuphathelene nenkqubo yezibhenzo.
 - ❖ Ukuhlola inkuthazo yeprojekthi umzkl umxube ofanelekileyo wombane (umzkl. wamalahle, wegesi, wenyukliya, wendalo).
 - ❖ Ukuxoxa ngayo nayiphi na imiba kwisikhululo sombane esikhulu esele sikhona saseKoeberg okanye inkqubo yokunika invume eqhubayo ye-NNR ngolwakhiwo olutsha eKoeberg.

INKCAZO YEPROJEKTHI

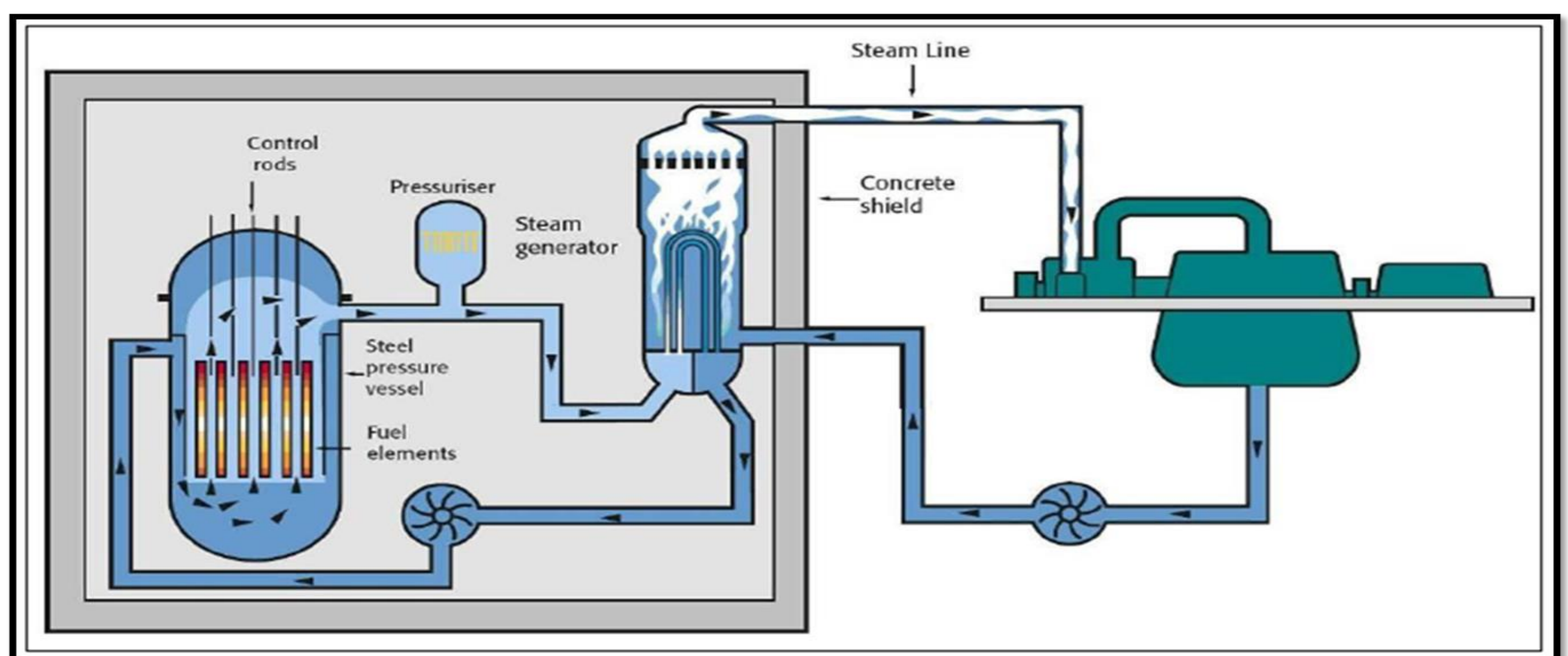
- ❖ IProjekthi yeNyukliya-1 ephakanyiswayo iza kuba noku (phakathi kwezinye):
 - ❖ ISixhobo soMbane oVeliswa ngokuBilisa aManzi seNyukliya.
 - ❖ AmaHolo eeNjini zoMsinga.
 - ❖ IziBonelelo zokuGcina amaFutha.
 - ❖ IziBonelelo zokuJongana neNkunkuma.
 - ❖ IZakhiwo zoLwandle zokuNgenisa nokuKhupha eLwandle zokutsala nokukhupha amanzi apholayo.
 - ❖ UMatshini wokuKhupha iTyuwa eManzini.
 - ❖ IiNtambo zoMbane kwiSiza soMzimveliso.
 - ❖ IiNdlela, iYadi eneVoltheji ePhezulu kunye nezakhiwo zeenkonzo ezincedisayo.
- ❖ Ukuba kuvunyiwe, ukwakhiwa kweNyukliya-1 kulindeleke ukuba kunabele kwiminyaka emalunga nelithoba.
- ❖ Ummandla opheleleyo ofunekayo kuma-4 000 MW kwiNyukliya-1 eDuynefontein ngama ~265 ehektare.



IPaintbrush lily (Haemanthus coccineus) eDuynefontein

INKCAZO YEPROJEKTHI

- ❖ IESkom iceba ukuqhuba, ukusebenza kunye nokwenza kukhuseleke isikhululo samandla ombane senyukliya esisebenzisa amafutha njengomthombo wobushushu eDuynefontein, ukuze kuhlangatyezwane nemfuno epheleleyo yombane.
- ❖ Ubuchwepheshe besiXhobo soMbane oVeliswa ngokuBilisa aManzi (Pressurised Water Reactor) (PWR), obusebenzisa amanzi njengesipholisi kunye nobusebenza ngokuzenzekelayo, bukhethwe yiESkom kwiNyukliya-1.
- ❖ Ii-PWR zezona zixhobo zombane oveliswa ngokubilisa amanzi zisetyenziswa kakhulu kwihlabathi.
- ❖ IESkom ibuqhelile obu buchwepheshe, ibe ibusebenzisile kule minyaka ingama-~39 idlulileyo kwiSikhululo saMandla oMbane saseKoeberg (Koeberg Nuclear Power Station) (KNPS).



Imbonakaliso yomzobo owenziwe lula we-PWR

I-EIR, EMPr KUNYE NOQWALASELO KWAKHONA KWAMAPHONONONGO EENGCALI

- ❖ I-EIR ichonge kwaye yahlola malunga nama-200 eempembelelo kwisiza saseDuynefontein.
- ❖ I-EMPr iqulethe amanyathelo okunciphisa ukuqinisekisa ukuba iimpembelelo zokusingqongileyo kwiSikhululo saMandla oMbane esiphakanyiswayo ziyancitshiswa.
- ❖ Kulandela ukuncitshiswa, uninzi lweempembelelo zithelekelelwe kweziphakathi ukuya kwezisezantsi ngokuqapheleka, inye kuphela (ukutshatyalaliswa kwembonakalo bume) eqapheleke ngokuphezulu.
- ❖ I-SRK iqhube **uhlalutyo lwesikhewu** ukuhlola ukuba ingaba ii-EIA, EMPr kunye namaphononongo eengcali enziwa kwiminyaka eli-10 eyadlulayo zisayifanele na injongo ngo-2023.
- ❖ Amaphononongo eengcali agunyazise inkqubo ye-EIA ahlelwe ngokweendidi (yi-SRK) njengokulandelayo:
 - ❖ AmaPhononongo **eeMpembelelo eeNgcali** aliShumi elineThoba ahlola iimpembelelo zeNyukliya-1 kokusingqongileyo; kunye
 - ❖ **NamaPhononongo obuChwepheshe** aliShumi elinaMbini, ixesha elininzi amaphando obuchwepheshe kunye/okanye amahlolo omngcipheko ehlola iimingcipheko ebekwa kokusingqongileyo kwiNyukliya-1.

AMAPHONONONGO EEMPEMBELELO EENGCALI AQWALASELWEYO KWAKHONA

❖ **Amaphononongo eeMpembelelo eeNgcali aqwalaselweyo kwakhona:**

- | | |
|---|---|
| ❖ IJomofoloji yeeNgquzu zeNtlabathi | ❖ IiNtlobo zeZilwanyana ezinamaThambo oMqolo |
| ❖ UPhononongo lokuHamba kwaManzi ngaPhezulu nangaPhantsi koMhlaba | ❖ IiNtlobo zeZilwanyana ezingenamaThambo oMqolo |
| ❖ UPhononongo lwaManzi aPhantsi koMhlaba | ❖ INdalo yaseLwandle |
| ❖ UPhononongo lwako konke okuNxulumene noLwandlekazi | ❖ Ezentlalo |
| ❖ Utshiso ngemitha | ❖ Ezoqoqosho |
| ❖ UMgangatho woMoya | ❖ Okubonwayo |
| ❖ Ingxolo | ❖ Amagugu amafa |
| ❖ IiNzululwazi ngeziTyalo neeNduli zeNtlabathi | ❖ Ezolimo |
| | ❖ Ezothutho |
| | ❖ UYilo lweeDolophu |
| | ❖ INdalo yaManzi aseMlanjeni neMigxo bhozo |

❖ **AmaHlolo obuChwepheshe aQwalaselweyo Kwakhona:**

- | | |
|---|--|
| ❖ INgozi yeJoloji | ❖ BayAmanzi asemlanjeni |
| ❖ UkuSabela kwiNgxakeko | ❖ INgozi yeNyikima |
| ❖ UkuFanelekela okuNxulumene nobuNjineli | ❖ Ulawulo lweSiza |
| ❖ UkuSabela kwiNgxakeko kweeNtambo zoMbane | ❖ UkuHlanganiswa |
| ❖ ULawulo lweNkunkuma eKhutshwa luTshiso ngeMitha | ❖ Ingxelo yeNgozi ngaPhaya koYilo |
| ❖ Ingozi kwiMpilo yomNtu | ❖ Isikhundla 1:100 kwiNqanaba eliPhezulu kunokuFikelela kulo aManzi oLwandle |

IQELA LOQWALASELO KWAKHONA

Igama	Umbutho	AmaPhononongo aQwalaselweyo kwaKhona
Chris Dalgliesh	I-SRK	<ul style="list-style-type: none"> • UHlolo lwezoQoqosho • I-EIR • I-EMPr
Sharon Jones	I-SRK	<ul style="list-style-type: none"> • I-EIR
Kate Steyn	I-SRK	<ul style="list-style-type: none"> • INgxelo yeNdalo eseMilanjeni kunye nokuBeka iLiso kwiMigxobhozo • UHlolo lweeNtlobo zeZilwanyana ezinamaThambo oMqolo • UHlolo lweeNtlobo zeZilwanyana ezingenamaThambo oMqolo
Jennifer Barnard	I-SRK	<ul style="list-style-type: none"> • UHlolo lweJomofoloji yeeNgquzu zeNtlabathi • UHlolo lweNdalo yaseLwandle • UHlolo lokuSetyenziswa koLwandle • UHlolo lweeMpembelelo zezoLimo • ULawulo lweNkunkuma eKhutshwa luTshiso ngeMitha • I-EIR
Rob Gardiner	I-SRK	<ul style="list-style-type: none"> • UHlolo oluNxulumene noPhononongo lwaManzi • UHlolo oluNxulumene noPhononongo lwaManzi aPhantsi koMhlaba • AManzi aseMlanjeni • Isikhundla 1:100 kwiNqanaba eliPhezulu kunokuFikelela kulo aManzi oLwandle • UHlolo lweeMpembelelo zezeNtlalo
Nicola Rump	I-SRK	<ul style="list-style-type: none"> • Uhlolo lweeNzululwazi ngeziTyalo neeNduli zeNtlabathi • UHlolo lweeMpembelelo zamaGugu amaFa
Hasheel Tularam	I-SRK	<ul style="list-style-type: none"> • UHlolo loMgangatho woMoya • UHlolo lweNgxolo

IQELA LOQWALASELO KWAKHONA

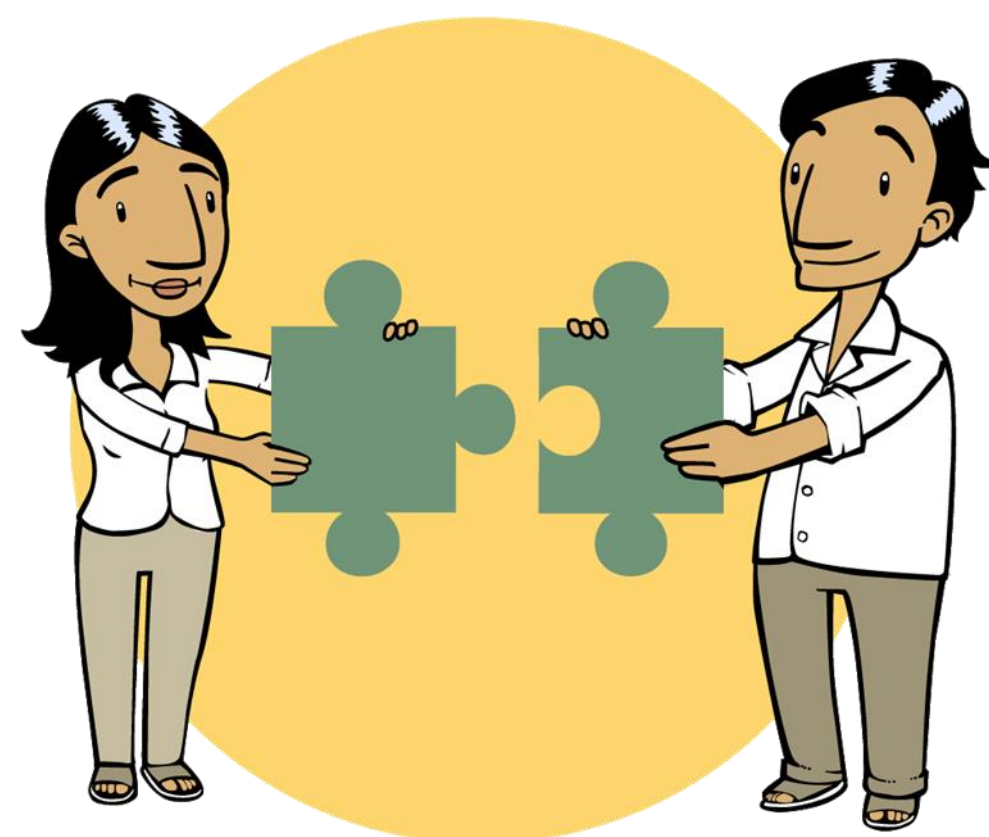
Igama	Umbutho	AmaPhononongo aQwalaselweyo kwaKhona
Bruce Engelsman	I-SRK	<ul style="list-style-type: none">• UHlolo lweNgozi yeJoloji• UHlolo lweNgozi yeNyikima• UHlolo lokuFanelekela okuNxulumene nobuNjineli• INgxelo yoLawulo lweSiza
Kelly Armstrong	I-SRK	<ul style="list-style-type: none">• UHlolo lweeMpembelelo eziBonwayo
Gqirha Dawid de Villiers	I-SciRAD Consulting	<ul style="list-style-type: none">• UHlolo lweeMpembelelo zoTshiso ngeMitha• INgxelo yokusabela kwiNgxakeko• INgxelo yeNgozi ngaPhaya koYilo
Chanel Barnard	IUrban-Econ	<ul style="list-style-type: none">• UHlolo loKhenketho
Gqirha Johan Christoff Krogscheepers	IziSombululo zoThutha oluTsha	<ul style="list-style-type: none">• UHlolo lwezoThutho
Tim Florence	AmaHlakani oCwangciso	<ul style="list-style-type: none">• INgxelo yoYilo lweeDolophu
Gqirha Willie van Niekerk	I-Infotox	<ul style="list-style-type: none">• UHlolo lweNgozi kwiMpilo yomNtu
Ahmed Hansa	IEskom	<ul style="list-style-type: none">• INgxelo yokuHlanganiswa kweeNtambo zoMbane

UMXHOLO WOLAWULO KUQWALASELO KWAKHONA

- ❖ IMimiselo ye-EIA, 2006 (GN R385 ka-2006), ewiswe ngokwe- NEMA, elawulwa yi-EIA yeNyukliya-1 eqaliswe yi-GIBB.
- ❖ Okulandelayo, iMimiselo ye-EIA, 2014, ezinye iimfuneko zolawulo ezintsha, imimiselo yophononongo lweengcali, imithetho yokunika ingxelo yeengcali (GN 320, 2022), kunye nemigangatho ziqalile ukusebenza.
- ❖ Imimiselo ye-NEMA 2014 EIA iquka **ulungiselelo lwenguqu** kwaye ichaza ngokucacileyo ukuba “Isicelo esingeniswe ngokwemimiselo ye-NEMA yangaphambili ...kufuneka ikhutshwe ngokwaloo mimiselo yangaphambili ye-NEMA...”

Ukuya kuma apho, uqwalaselo kwakhona lujolise koku:

- ❖ Ukuya kuma apho i-EIA, eqaliswe ngokweMimiselo ye-EIA ka- 2006, ingqinelaniswe ngenjongo kunye 'nomoya' weMimiselo ye-EIA, 2014:
- ❖ Ungqinelaniso nokuba nokusebenza 'komoya' kunye nenjongo yemimiselo yamaphononongo eengcali (amatsha) kunye nemithetho yokunika ingxelo.



INDLELA YOQWALASELO KWAKHONA NOLWAZINKQUBO

UQWALASELO KWAKHONA LUTHATHELA INGQALELO YOKUBA:

- ❖ Ingaba **Iusafanelekile** na ulwazi lwakudala:
 - ❖ Ingaba Iusafanelekile na ulwazi nedatha yaphambi kokuqalisa umsebenzi kwi-EIA yeNyukliya okanye iimeko zitshintshe ngokubonakalayo na kangangokuba ulwazi lunokubeka esichengeni i-EA yokuqala.
- ❖ **Ukunyaniseka** kolwazi:
 - ❖ Ingaba isimo solwazi kwi-EIR okanye ingaba uphononongo oluthile luchaphazela iimpembelelo ezinokuba khona zeprojekthi, zisonyusa umngcipheko wokuba iprojekthi ingakwazi ukumelana nezibhenso ezingaphaya kwixa elizayo.
- ❖ Ukuba ingaba iintsilelo kunye nemingcipheko yedatha zingathathelwa ingqalelo na:
 - ❖ Ngemiqathango emitsha ehlonyelwe kwi-EA kunye/okanye isigqibo sesibhenso.
 - ❖ Ngesicelo esitsha kwi-EA (njengenkqubo entsha ye-EIA).
 - ❖ Ukuhlaziya i-EMPr.
 - ❖ NgeSongezo kuPhononongo lweNgcali.
 - ❖ Ngokuphumeza kunye nokuxela iNdlela yokuThathela iNgqalelo iziKhalazo kunye nokusabela kwizikhalazo ezibonakalayo njengoko zinokuvela.
 - ❖ Ngenye inkqubo yomthetho (umzkl. isicelo sokusetyenziswa komhlaba).
 - ❖ Ezinye iinkqubo ezithile.

UMDA WOQWALASELO KWAKHONA

UQWALASELO KWAKHONA:

- ❖ Lunakana ukuba iNyukliya-1 EIA khangwe kwaye, ngokomthetho, **akufanelanga ukuba** ithobele imithetho eqale ukusebenza emva kokuqala ukusebenza kwenkqubo yeNyukliya-1 EIA.
- ❖ **Aluhloli ukuchaneka okanye ukucaca** kolwazi oluthiwe thaca kwiNgxelo ye-EIA okanye kwiingxelo zeengcali eziqwalaselwe kwakhona ngononophelo ngexa lenkqubo ye-EIA.
- ❖ **Luthatha ngokuba inkqubo ye-EIA**, indibano yamahlakani, i-EIR kunye namaphononono eengcali ebeqondwa, **ethobela umthetho** kwaye elungele injongo ukuvunywa kwayo ngo-Oktobha ka-2017 i-EA.
- ❖ Ayiloqwalaselo kwakhona lobuchwepheshe, kodwa yinkqubo yoqwalaselo kwakhona, ekuvaleni **uhlalutyo lwesikhewu** ekubeni ingaba ii-EIA kunye namaphononongo anxulumene nazo enziwa kwiminyaka eli-10 eyadlulayo zisayifanele na injongo ngo-2023.

UQWALASELO KWAKHONA LWEZIGQIBO: EIR

- ❖ **Inkcazo yeprojekthi** kwi-FEIR isathathwa ngokuba isanyanisekile.
- ❖ **Akukho tshintsho lwamathiriyeli** lwenzekileyo **phambi kokuqala komsebenzi**.
- ❖ **Ulwazinkqubo** lohlolo lweempembelelo oluluqilima lusetyenzisiwe kwaye iimpembelelo ezibalulekileyo zihloliwe. **Akukho kushiya kwamathiriyeli** kuboniweyo.
- ❖ **Iingxelo kwi-FEIR** ngokuphathelene **nomxube wombane** kunye nokuhlanganiswa kwigridi yombane zinokuba ziphelelwe lixesha kwaye kunoko kufanele zisekwe yi-IRP ehlaziyiweyo.
- ❖ **Inkqubo yothatho nxaxheba loluntu** yokuqala inike i-DFFE ukuqonda okubanzi komda kunye nezimvo zamahlakani ukuseka ukwenziwa kwezigqibo.
- ❖ **Inkqubo ye-EIA beyonele** ukuhlangabezana neemfuneko ngokweMimiselo ye-EIA, 2014.
- ❖ **Izizindlo kunye nemida ngokunjalo nezigqibo** kunye neziphakamiso kwi-FEIR zisahleli zinyanisekile kwaye **i-FEIR iyilungele injongo yokuseka isigqibo**.

IZIGQIBO ZOQWALASELO KWAKHONA: I-EMPr KUNYE NAMAPHONONONGO ENGCALI

- ❖ **I-EMPr** luxwebhu olutshintshayo kwaye ekuza kufuneka luhlaziywe rhoqo yiEskom xa kufumaneka ulwazi olutsha.
- ❖ Lonke uqwalaselo kwakhona lweengcali lugqibe ekubeni iingxelo zeengcali **zifanelekile** ukuba kungenziwa izigqibo ngazo.
- ❖ Uninzi **lwabaqwalaseli kwakhona abaziingcali khange lucebise naluphi na uhlaziyo** kumaphononongo, nakuba kunjalo:
 - ❖ UHlolo lweMpembelelo zoQoqosho lufumanise ukuba inyukliya lukhetho olungabizi mali uninzi kwaye olufaneleke ngokungaphaya (ekwenziweni kombane), isigqibo esinokuba asisanyanisekanga. Umqwalaseli kwakhona oyingcali ucebise ukuba uMphathiswa kufuneka athathele ingqalelo i-IRP (DoE, 2019).
 - ❖ Umqwalaseli kwakhona womgca welona nqanaba liphezulu kunokufikelela kulo amanzi ezikhukhula kunyaka we-1:100 ukuphakamisile ukuba uyilo lweNyukliya-1 luyazithobela iziphakamiso kwiiNgxelo zoKhuseleko lweSiza (ii-SSR) ezohlukeneyo ezigunyaziselwe iSikhululo soMbane weNyukliya eDuynefontein.
 - ❖ Uqwalaselo kwakhona lweengcali lweNgxelo yokuHlanganiswa kweGridi, olucebise uPhononongo lokuHlanganiswa kweGridi okutsha.

IZIPHAKAMISO: ESKOM

Iziphakamiso ezingundoqo zezokuba **iEskom** kufuneka:

- ❖ Ifumane **iimvume kunye neelayisensi** ezibandakanyekayo (zokusingqongileyo), ngokomthetho osebenzayo.
- ❖ Iqinisekise ukuba uyilo loMzi Mveliso woMbane weNyukliya uthobela iziphakamiso kwii-SSR ezohlukeneyo ezigunyaziselwe iSikhululo soMbane weNyukliya eDuynefontein.
- ❖ Igunyazise **uPhononongo lokuHlanganiswa kweGridi** yakube inkqubo yesibheni igqityiwe, ukufaka eyona datha yakutsha nje kwiNyukliya-1.
- ❖ **Ihlaziye i-EMPr** njengoko ulwazi olutsha lufumaneka, umzkl. akube onyuliwe umthengisi kwaye lugqityiwe noyilo olucacululiweyo.

IZIPHAKAMISO: INKQUBO YEZIBHENO

Iziphakamiso ezingundoqo ngokunikwa [kwesigwebo kwisibheni](#) zezokuba i-FEIR ihlale isemthethweni kwaye ifanele injongo yokuseka isigqibo, ngokuxhomekeke koku:

- ❖ IEskom iphumeza iziphakamiso ze-SRK.
- ❖ UMphathiswa ethathela ingqalelo iCandelo lama-34(1) elikhutshwe ngokungqinelana noMthetho woLawulo loMbane ka-2006 kwinyukliya entsha yama-2 500 MW.
- ❖ UMphathiswa ethathela ingqalelo i-IRP 2019 ethathela ingqalelo yomxube wemithombo yamandla ombane.



liNduli kunye neSikhululo saMandla oMbane weNyukliya saseKoeberg
ngemva

AMANYATHELO AMAWATHATHWE

❖ INgxelo yoQwalaselo Kwakhona kunye ne-CCIA zifumaneka ku:

- ❖ IThala leeNcwadi loluNtu laseAtlantis Avondale.
- ❖ IThala leeNcwadi elinguNdoqo laseKapa.
- ❖ IThala leeNcwadi loluNtu laseKoeberg.
- ❖ IThala leeNcwadi loluNtu laseTableview.
- ❖ IiOfisi ze-SRK eRondebosch.
- ❖ Iwebhusayithi ye-SRK: www.srk.co.za.
- ❖ Iwebhusayithi yase-Eskom: www.eskom.co.za.

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			23			



- ❖ Nceda ungenise zonke izimvo [ngokubhaliweyo](#).
- ❖ Zonke izimvo neempendulo ziza kuqukwa kwiSishwankathelo seMiba neMpendulo.
- ❖ INgxelo yoQwalaselo Kwakhona yokuGqibela kunye ne-CCIA (kuquka zonke izimvo zamahlakani) ziza kwenziwa zifumanekele ulwazi kwaye zingeniswe kuMpahthiswa ngesigqibo.
- ❖ Ixesha lezimvo liphela [ngowama-23 Agasti 2023](#). Zonke izimvo ezibhaliweyo zinokusiwa [kuAsheerah Meyer](#) kwi-SRK Consulting.

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