

## MINUTES

### OF THE KOEBERG PUBLIC SAFETY INFORMATION FORUM (KPSIF), HELD ON THURSDAY, 26 JUNE 2025 AT KOEBERG NUCLEAR POWER STATION (VISITORS CENTRE)

**Chairperson:** Mrs Smokie La Grange

**Deputy Chairperson:** Vacant

<b>RESIDENTS</b>		
Surname and Name	Organisation	Present
Adams, Tagmieda	Resident	P
Amien, Ishtiaq	Resident	
Amien, Salim	Resident	
Beaumont, Diane	Resident	
Beaumont, John	Resident	
Becker, Peter	Koeberg Alert Alliance	
Beyl, Trudy	Resident	Apology
Browne, Peter	Resident	P
Daniels, Elizabeth	Resident	
Daniels, Mastoer	Resident	
Daniels, Shameemah	Resident	
De Vries, Gerrit	Resident	
Fuller, Lorna	Resident	Apology
George, Delores	Resident	
Harrison, Douglas	Resident	
Hintsa, Zelda Ann	Resident	P
Jones, Charmaine	Resident	
Jones, Jacobus	Resident	
Jones, John	Resident	
Klaasen, Gabriel	Resident	
La Grange, Duval	Resident	P
Malgas, Heinrich	Resident	P
Malingo, Leticia	Resident	
Mapapu, Ntombizodidi	Resident	
Mayhew, Robert	Resident	Apology
Mayhew, Sylvia	Resident	Apology
McDaid, Liziwe	Resident	
Meyer, Judith	Resident	

<b>Surname and Name</b>	<b>Organisation</b>	<b>Present</b>
Mgqutyana, Nomfundiso	Resident	P
Minnie, Alana	Resident	P
Myers, Michael	Resident	
Naylor, Paul	Resident	
Ndikolo, Mazwi	Resident	
Ntombizodidi, Mapapu	Resident	P
October, Ann	Resident	
Pannaye, Angelique	Resident	
Paries, Valerie	Resident	
Paulus, Elroy	Resident	P
Petersen, Lydia	Resident	P
Petersen, Maria	Resident	
Petersen, Marian	Resident	
Philander, Rochelle	Resident	
Rashalala, Mary	Resident	
Roebeck, Wendy	Resident	
Scott, Peter	Resident	
Sili, Florence	Resident	P
Siyabulela, Tshatshu	Resident	P
Smith, Renier	Resident	
Swart, Alison	Resident	
Williams, Jenny	Resident	
Zeidan, Fatima	Resident	

<b>OFFICIALS</b>		
<b>Surname &amp; Name</b>	<b>Organisation</b>	<b>Present</b>
Ahrends, Joy	Eskom Koeberg	P
Bester, Peter	NNR	P
Cronje, Nardus	Eskom Koeberg	P
Dubazana, Sibusiso	DMRE	
Flatela, Mvola	Eskom Koeberg	P
Freeman, Samuel	City of Cape Town - DRM	
Jacobs, Phil	Eskom Koeberg	P
Jeannes, Deon	Eskom Koeberg	
Joshua, Debbie	Eskom Koeberg	P
Kubheka, Phumlani	Eskom Koeberg	P
Kotze, Anton	Eskom Koeberg	
La Grange, Smokie	KPSIF Chairperson	P
Lewis, Deidre	Eskom Koeberg	P
Makgae, Reuben	NNR	
Malale, Disietsi	Eskom Koeberg	
Malgas, Isaac	Eskom Koeberg	P
Maree, Marc	Eskom Koeberg	P
Maree, Vanessa	NNR	

<b>Surname &amp; Name</b>	<b>Organisation</b>	<b>Present</b>
Mashele, Bravance	Eskom Koeberg	P
Minnie, Johan	City of Cape Town	P
Moduka, Victor	Eskom Koeberg	
Moonsamy, Gino	NNR	Apology
Mollagee, Shafeeq	City of Cape Town	P
Munsami, Nicholas	Eskom Koeberg	P
Pemba, Siphokazi	Eskom Koeberg	P
Stephanus, Aminah	Eskom Koeberg	P
Touffie, Sadika	Eskom Koeberg	P
Motsumi, Teboho	DMRE	
Munsami, Nicholas	Eskom Koeberg	
Ndomondo, Thembinkosi	NNR	
Ntuli, Velaphi	Eskom Koeberg	
Peters, Owen	Eskom Koeberg	
Phidza, Lewis	Eskom Koeberg	P
Pie, Thabiso	DMRE	
Pienaar, Shaun	Eskom Koeberg	
Stephanus, Aminah	Eskom Koeberg	P
Thomas, Mandy	City of Cape Town	
Touffie, Sadika	Eskom Koeberg	
Van Schalkwyk, Tobie	Eskom Koeberg	
Vrey, Marius	WCG Agriculture	

DEFINITIONS			
Definition	Description	Definition	Description
Accident	An unintended event, including operating errors, equipment failures or other mishaps	Disaster Management	A continuous and integrated multi-sectorial, multi-disciplinary process of planning and implementation of measures aimed at a) Preventing or reducing the risk of disaster b) Limiting the severity or consequences of disasters c) Emergency preparedness d) Responding rapidly and effectively to disaster, and post-disaster recovery and rehabilitation
Emergency	An event that requires taking prompt action, or the special regulation of persons or property, to limit the risk to people's health, safety, or welfare, or to limit damage to property or the environment	Emergency Plan	A document describing the organisational structures, its roles and responsibilities, concept of operation, means and principles for intervention during an emergency at Koeberg
Evacuation	The rapid, temporary removal of people from the area to avoid or reduce short-term radiation exposure in the event of an emergency	Megawatts (MW)	A unit of measure - one megawatt is equal to one million watts
Millisievert (mSv)	A measure of the absorption of ionising radiation by the human body	National Electricity Grid	The network of high-voltage power lines fed by the various power stations, which supplies electricity to the country
Outage	The maintenance period on a power plant when several activities are performed on equipment that keeps the plant running	PGA / Pga / pga	Measured in units of g (standard earth gravity) which is equal to 9.81 m/s <sup>2</sup>
Public Notification	Notification to the public of an emergency and the appropriate protective actions to be taken by using the installed siren and loudspeaker system, as well as local authorities, local radio, and television station	Radiation	Energy released in the form of particles or electromagnetic waves during the breakdown of radioactive atoms
Release	The controlled or accidental discharge of radioactive substances into the environment	Sheltering	A protective action whereby members of the public stay indoors with windows and doors closed, to reduce their exposure to radioactive material in an emergency

<b>ABBREVIATIONS</b>			
<b>Abbreviation</b>	<b>Description</b>	<b>Abbreviation</b>	<b>Description</b>
AFI	Area for Improvement	AECC	Alternate Emergency Control Centre
CCGT	Closed Cycle Gas Turbines	CCT	City of Cape Town
CISF	Centralised Interim Storage Facility	CPA	Consumer Protection Act
CSB	Cask Storage Building	DOC	Disaster Operations Centre
ECC	Emergency Control Centre	EIA	Environmental Impact Assessment
EMP	Environmental Management Plan	EP	Emergency Plan
EPSOC	Emergency Planning Steering and Oversight Committee	EPZ	Emergency Planning Zone
FC	Functional Coordinator	FME	Foreign Material Exclusion
IAEA	International Atomic Energy Agency	ICCP	Impressed Current Cathodic Protection
INPO	Institute of Nuclear Power Operations	IPP	Independent Power Producer
ISO	International Standards Organisation	KCWIB	Koeberg Cooling Water Intake Basin
KEP	Koeberg Emergency Procedure	KNEP	Koeberg Nuclear Emergency Plan
KNPS	Koeberg Nuclear Power Station	KPSIF	Koeberg Public Safety Information Forum
LTI	Lost Time Injury	LTO	Long Term Operation
NATJOINTS	National Joint Operational and Intelligence Structure	NECSA	South African Nuclear Energy Corporation SOC Limited
NERSA	National Energy Regulator of South Africa	NNR	National Nuclear Regulator
NOSA	National Occupational Safety Association	NOSCAR	The grading of NOSA for safety performance
NRWDI	National Radiation Waste Disposal Institute	NSRB	Nuclear Safety Review Board
OCA	Owner Controlled Area	OEM	Original Equipment Manufacturer
PAZ	Precautionary Action Zone	PGA / Pga / pga	Peak Ground Acceleration
PSGM	Power Station General Manager	SABC	South African Broadcasting Corporation
SAMG	Severe Accident Management Guideline	SAPS	South African Police Service
SFP	Spent Fuel Pool	SGR	Steam Generator Replacement
SHEQ	Safety Health Environment and Quality	TEM	Traffic Evacuation Model
UPZ	Urgent Protective Action Planning Zone	WANO	World Association of Nuclear Operators

## **1. WELCOME AND OPENING**

The Chairperson, Mrs La Grange, welcomed the attendees and opened the Koeberg Public Safety Information Forum (KPSIF)

## **2. SAFETY BRIEFING**

Ms Marina Jenkins conducted the safety briefing. Emphasis was made to the different types of emergency exit points, assembly points and the smoking area.

## **3. APOLOGIES**

The following apologies were tendered (refer to pages 1–3)

- Ms Trudy Beyl
- Ms Lorna Fuller
- Mr and Mrs Mayhew
- Mrs Mandy Thomas

## **4. APPROVAL OF THE MINUTES (KPSIF held of 27 March 2025)**

The November Minutes were discussed, with Mrs La Grange noting that Ms Petersen had requested amendments. Mr Mayhew pointed out that his NNR questions were not fully captured in the Minutes (Mr Mayhew to send an email with his amendments). Ms Petersen proposed the Minutes with the amendments and Ms Sili seconded it.

It is to be noted that the updated March 2025 Minutes is circulated with the June 2025 Minutes.

## **5. MATTERS ARISING FROM PREVIOUS MINUTES**

### **5.1 Update of KPSIF Deputy Chairperson Position**

Mr Bester, (Programme Manager Nuclear Power Plants), of the National Nuclear Regulator (NNR) informed the members that they have received the nominations for the Deputy Chair position. Mr Bester explained that the Board considers various criteria to inform their decision, this being amongst others that the administrative requirements pertaining to the submissions were met by the candidates, that the person selected resides within the relevant municipal area as outlined in the KPSIF Constitution and that

the nominees have experience working in the community and have attended one or two Koeberg KPSIF meetings. They have applied the rules, and it was decided to readvertise the position in the local newspapers in early August 2025. Once nominations have been received it will be presented to the NNR Board for consideration. He encouraged KPSIF members to send their nominations for the position.

## **6. PRESENTATIONS**

### **6.1 Koeberg Quarterly Feedback**

Ms Mashele, Koeberg Plant Manager, conducted a presentation on the Koeberg quarterly feedback. Emphasis was made to the following:

**a. Radiological Safety:**

Public dose – less than 1%

No uncontrolled or unplanned radioactive discharges

**b. Koeberg Units Operation Status:**

**Status update**

**Koeberg Unit 1 – Outage 127**

- Outage 127 started on February 14, 2025
- No significant nuclear safety-related events reported
- Long-Term Operation (LTO) activities, including modifications, are underway
- Plant shutdown and nuclear fuel unloading completed safely

**Koeberg Unit 2 – Status update**

- 109 days online
- Reactor operating at 100% power, generating 947MW to the grid
- Unit 2 is operating safely with no new risks or safety concerns

**Status of Outage**

**Timeline:**

- Outage duration 167 days with target return to service date of 5 August 2025
- 130 days completed
- Expected return of unit 5 August 2025

**Progress:**

- Majority of component maintenance completed

- Current focus on Integrated Leak Rate Test of the containment building

**Upcoming activities:**

- Integrated Leak Rate Test June 28
- Inspection of the lower internal components

**Long-Term Operation (LTO) Update:**

- LTO commitments All completed or in progress

**LTO projects**

- Remaining project Hardened Water Connection Modification (completion date July 6, 2025)

**c. Koeberg Noteworthy Events**

- Ms Mashele stated that on Wednesday, May 28, 2025, at approximately 14 00, Siren 913 in Sunningdale's green belt area was accidentally activated during routine maintenance, emitting a brief alarm tone She noted that Eskom released a statement to the public, clarifying that there was no actual emergency at the Koeberg Nuclear Power Station and that no action was required from the public The incident did not affect the station's normal operations

**d. Concluding remarks**

- Koeberg Nuclear Power Station continues to operate safely and reliably
- Koeberg's priorities is completing Outage 127 safely, preparing for Unit 2, and the implementation of actions from the NNR Unit 1 LTO directive
- The Koeberg Emergency Plan is regularly exercised to enhance its effectiveness, identify areas for improvement, and ensure safe plant operation
- There were no uncontrolled / unplanned radioactive discharges, and therefore no new risk to the public and environment

**Questions raised from the presentation:**

**Question 1:**

The member enquired what the safe dose of radiation is and how far will it travel?

**Response:**

According to Mr Maree, South African law and global standards set a dose limit of 1,000 microsieverts per year for members of the public However, the Regulator has imposed a stricter limit for Koeberg, stipulating that no member of the public may be exposed to

more than 250 microsieverts per year, which is a quarter of the international limit. This exposure limit is strictly controlled within the Koeberg Nuclear Power Station site and does not extend beyond its fence.

**Question 2:**

Ms Petersen enquired whether there had been any precedent for Eskom to reduce the dose limit from 1,000 to 250 microsieverts per year.

**Response:**

Mr Maree replied that no specific incident prompted the decision. The limit was set before Koeberg was built, as a precautionary measure by the Regulator to keep exposure levels as low as reasonably achievable.

**Question 3:**

Ms Petersen requested that Ms Mashele provide more information on the upcoming Integrated Leak Rate Test.

**Response:**

Ms Mashele explained that the Integrated Leak Rate Test is conducted to ensure the containment building's integrity. Since the building is designed to be slightly below atmospheric pressure during operation, its purpose is to prevent radiation from escaping while allowing air to enter. The test involves pressurising the building to near its design pressure of approximately 400kPa to verify that it can maintain its containment function and prevent leakage through various penetrations.

## **6.2 Koeberg Long-Term Operation update**

Ms Malale, Koeberg Engineering Section Manager, delivered a presentation on the status of Koeberg's Long-Term Operation. She mentioned the following:

- Koeberg Unit 1 was issued with a Long-Term Operation (LTO) licence from the National Nuclear Regulator (NNR) allowing it to operate for an additional 20 years until 21 July 2044.
- The NNR directive contains the following licence conditions:
  - Post-LTO safety case commitments
  - The periodic safety review (PSR) safety improvements and
  - A list of specific requirements identified by the NNR

- Ms Malale explained that they employ aging management strategies, including online monitoring of structures, pre-emptive inspections, and repairs as needed. A long-term strategy, Impressed Current Cathodic Protection (ICCP), has been developed to ensure the structures remain fit for purpose over the 20-year long-term operation period. Additionally, continuous monitoring and upgrades are performed, with regular inspections conducted during planned outages and updates every 10 years.
- Ms Malale expressed Eskom's confidence in their preparation for long-term operation, highlighting the benefits of continued operation, including clean energy production, economic benefits, and reduced load shedding.

### **Questions raised from the presentation:**

#### **Question 1:**

Mr Elroy Apollis stated that the information presented was a perspective shared by Eskom, the National Nuclear Regulator, and other concerned parties. However, he disagreed with the findings, citing the example of a recent 5.3 earthquake that occurred 200 kilometers away from Vaalputs.

#### **Response:**

Ms Malale acknowledged Mr Apollis' concerns but highlighted that Eskom conducts ongoing studies, including seismic hazard analyses, to ensure the safe operation of Koeberg Nuclear Power Station. She emphasised that the site is designed to mitigate seismic activity and that regular engineering analyses are performed to identify potential weaknesses.

#### **Question 2:**

Mr Apollis asked for the date of the last seismic report. After being informed it was 15 March 2024 by Ms Malale, he noted a 5.3 earthquake that occurred on December 22, 2024, and inquired if a subsequent report had been done, particularly regarding the Vaalputs Radioactive Waste Disposal site.

#### **Response:**

Ms Malale replied that she would provide feedback on the matter in the next presentation. Mr Phidza clarified that Ms Malale's presentation focused on the Koeberg Nuclear Power Station, whereas Mr Apollis' question pertained to Vaalputs, highlighting

the distinction between the plant's design and safety, and the storage of radioactive waste

**Question 3:**

Ms Petersen sought clarification from Ms Malale regarding public engagement and the NNR's decision on Eskom's license in 2025. She corrected Ms Malale, stating that the NNR's decision was deferred, not that the license would be granted in 2025.

**Response:**

Ms Malale acknowledged the mistake and also clarified that she did not rule out public engagement but rather mentioned that the Stakeholder Management Department would roll out public engagements in various areas. Mr Phidza added that the Regulator would also hold public hearings after the engagements. Ms La Grange mentioned an additional meeting with the Melkbosstrand Ratepayers Association scheduled for 17 July 2025.

**Question 4:**

An unknown participant asked about the extent of public participation in terms of demography, given that Eskom's studies cover an area within a 300km radius.

**Response:**

Ms Malale explained that the demographics vary across different areas, comprising people from diverse backgrounds.

**Koeberg Nuclear Power Station Traffic Evacuation Model**

Mr Shafeeq Mollagee, Principal Professional Officer (PPO) Transport Systems and Modelling from the City of Cape Town, presented on the status of the Traffic Evacuation Model (TEM). Emphasis was made to the following:

- The new TEM has been under development since late 2021, with a completed base model handed over and City of Cape Town (CoCT) staff capacitated.
- The model is currently in the testing and maintenance phase, where required changes have been identified and refinements are being made.
- Internal verification and adjustments were made to the 2024 baseline population.
- Model documentation has been packaged and handed over to Eskom for analysis and approval by the National Nuclear Regulator (NNR).

**Questions raised from the presentation:**

**Question 1:**

Ms Petersen asked how would this model affect the current model?

**Response:**

The speakers (Mr Mollagee, Ms La Grange and a participant from the audience) discussed the proposed toxic dump site and its potential impact on evacuation times. They confirmed that the site's development application is with the City of Cape Town (CCT) and is being evaluated using the Traffic Evacuation Model (TEM). The TEM assesses the impact of developments within specific zones on evacuation times, and its input will be considered by the city along with other factors, such as environmental impact assessments and public input, in making a decision on the application.

**Question 2:**

Ms La Grange asked if there should be protest action and the N7 and R27 is close, what would then happen?

**Response:**

Mr Mollagee mentioned that they have the authority to safely open these roads if needs be.

**7. GENERAL**

**Question 1:**

Ms Petersen inquired about two incidents that occurred at the Koeberg Nuclear Power Station. She mentioned a court case that was before the courts and another incident that happened after that, asking if there were any resolutions or updates on the forecast regarding these incidents.

**Response:**

Ms Mashele stated that she did not have any feedback on the matter but would conduct research and provide an update later. Ms Amina noted that SAPS had responded, indicating that the case had been postponed to the end of July. Mr Phidza requested that the information be included in the next quarterly feedback report.

**Question 2:**

Mr Brown inquired about the expected release date of the Report on the Environmental and Social Impact Assessment (ESIA) for the proposed Wesco Waste Treatment Facility, which was generated several months ago

**Response:**

Mr Phidza explained that Eskom had objected to an application in March 2025 and had previously stated their position. However, due to the rules of the process, Eskom couldn't release the objection documentation directly to the public. Instead, the objection would be shared with the consultant assisting the applicant, who would compile and make public all concerns and issues. Mr Phidza noted that releasing the document outside of this process would contravene the Environmental Management Act.

**Response:**

Mr Brown disagreed with Mr Phidza's stance on not sharing Eskom's objection document with the public. He believed that the document should be shared, as it contains comments on a proposal and is not confidential. Mr Brown emphasised the importance of collaboration and transparency among stakeholders, particularly considering the significant impact that the proposed WESCO facility could have on surrounding communities.

**Response:**

Mr Ntuli offered to undertake a review on behalf of Eskom, stating that within two weeks, Eskom's position would be clearly communicated, taking into account the points that had just been shared. He proposed conducting further consultation and then communicating the outcome to all stakeholders.

**Response:**

Ms La Grange informed Mr Ntuli that Eskom has 30 days to respond, given the final Environmental Impact Statement (EIS) timeline, which means they effectively have 29 days left.

**Response:**

Mr Brown emphasised the importance of the 30-day (now 29-day) review period for the final Environmental Impact Statement (EIS). He highlighted the need for interested parties, including the Melkbosstrand team he is part of, to make informed comments despite not knowing Eskom's position.

**Response:**

Ms La Grange agreed with the importance of collaboration but noted that they had to work without knowing Eskom's response anyway. She mentioned that they had a tight deadline of 15 days and offered to follow up with a phone call.

**Question 3:**

Ms Hintsa asked if there is a general emergency plan in place and, if so, where it can be found in the documents. She emphasised the importance of civil society empowering itself with this information.

**Response:**

Mr Cronje mentioned that Koeberg has a comprehensive Integrated Emergency Plan, published on their website. He added that they also release an annual Emergency Plan calendar containing critical information for the public on what to do in case of an emergency. While the plan itself is technical and aimed at responders, the calendar provides accessible information for the public.

**Response:**

Mr Maree added that he had quickly searched for the Koeberg Nuclear Emergency Plan online and found it readily available in the public domain with the latest revision by searching for "Koeberg Nuclear Emergency Plan KA811".

**8. DATE OF THE NEXT KPSIF**

The next KPSIF is scheduled to take place on Thursday, 25 September 2025. The venue of the KPSIF which was scheduled for Table View to be confirmed.

**9. PROPOSED AGENDA ITEMS FOR THE NEXT KPSIF**

The following items were proposed to be presented at the next KPSIF:

- Spent Fuel Pool and Waste Management update
- Presentation by the City of Cape Town Fire Chief

**10. CLOSING**

The Chairperson thanked the attendees for their contribution and adjourned the KPSIF at 20:36.

  
MRS SMOKIE LA GRANGE  
(Chairperson)

25 September 2025  
(Date)