

**Koeberg Public Safety Information Forum (PSIF) Minutes of the meeting
held on Thursday, 30 June 2022**

Venue: MS Teams (virtual Platform)

Chairperson: Ms Smokie La Grange

Deputy Chairperson: Mr Cyril Mack

Name and Surname	Organisation	Present
Andrews, Melanie	Resident	A
Browne, Peter	Resident	Apologies
Beyl, Trudy	Resident	P
Becker, Peter	Koeberg Alert Alliance	P
Bellinger, Sue		
Browne, Peter	Resident	Apologies
Goss, Clive	Resident	A
Goss, Marga	Resident	A
Harrison, Douglas	Resident	A
Iosiphakis, John	Resident	Apologies
Jones, John and Anneke	Resident	Apologies
Jenny (Guest)	Resident	P
Ketcher, A	Resident	A
Kiehm, Elke	Resident	A
Kruger, Charmaine	Resident	A
Kruger, Willem	Resident	A
La Grange, Duval	Resident	Apologies
Lee, Nick and Anne	Resident	Apologies
Lingard, David	Resident	A
Mayhew, Robert	Resident	A
Mayhew, Sylvia	Resident	A
Mallison, Clyde	Resident	A
Meyer, Carola	Resident	A
Moses, Bramwell	Resident	A
Naylor, Paul	Resident	Apologies
Pannaye, Angelique	Resident	Apologies
Pannaye, Eric	Resident	Apologies
Pekeur, Wendy	Resident	A
Petersen, Lydia	Resident	P
Scott, Peter	Resident	A
Slabbert, Johan	Resident	P
Snyders, Edward	Resident	A
Stockhowe, Rita	Resident	A
Steven, VR	Resident	P
Taylor, Roberta	Resident	A
Van der merwe, Marinda	Resident	P
Whitehouse, Jennifer	Resident	P

OFFICIALS		
Bakardien, Riedewaan	Chief Nuclear Officer – Eskom	P
Bester, Peter	National Nuclear Regulator	P
Bele, Joyce	Eskom Koeberg	P
Booyesen, Thomas	Eskom Koeberg	A
Bruiners, Roger	National Nuclear Regulator	P
Cronje, Nardus	Eskom Koeberg	P
Ditlhake, Kentse	Eskom Koeberg	A
Featherstone, Keith	Eskom Koeberg	P
Franco, Johannes	City of Cape Town	Apologies
Heynes, Godfrey	Eskom Koeberg	P
Jeannes, Deon	Eskom Koeberg	Apologies
Joshua, Debbie	Eskom Koeberg	P
Julius, Graham	Eskom Koeberg	Apologies
Kline, Kim	Eskom Koeberg	Apologies
Lenders, Ricky	City of Cape Town – Disaster Risk Management	Apologies
Le Roux, Jurina	Eskom Koeberg	A
Mashele, Bravance	Eskom Koeberg	A
Maree, Marc	Eskom Koeberg	Apologies
Maree, Vanessa	National Nuclear Regulator	A
Matlala, Obakeng	Department of Mineral Resources and Energy	A
Minnie, Johan	City of Cape Town	P
Mnyanda Xolisa	Eskom Koeberg	P
Moonsamy, Gino	National Nuclear Regulator	P
Ncuru, Anele	Eskom Koeberg	P
Ndomondo, Thembi	National Nuclear Regulator	A
Phidza, Lewis	Eskom Koeberg	P
Powell, Charlotte	City of Cape Town	A
Ramerafe, Mothusi	National Nuclear Regulator	Apologies
Ryland, Nizaam	Eskom Koeberg	P
Silinga, Nangamso	National Nuclear Regulator	P
Stephanus, Aminah	Eskom Koeberg	P
Stevens, Michelle	Eskom Koeberg	P
Cllr Swart, Paul	Ward Counsellor (DA)	Apologies
Thomas, Mandy	City of Cape Town	P
Twala, Vusi	National Radiation Waste Disposal Institute	A
Van Rensburg, Stephen	City of Cape Town	P
Valaitham, Mahesh	Eskom Koeberg	Apologies

Abbreviation/definition list			
Abbreviation	Description	Abbreviation	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: <ul style="list-style-type: none"> 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 e) Post-disaster recovery and rehabilitation
AFI	Area for Improvement – usually the outcome of a benchmarking exercise, which enables the identification of successful practices/strategies implemented by other organisations in the same or similar industry,	GCE	Group Chief Executive
Boron	A very hard, almost colourless crystalline metalloid element that in impure form exists as a brown amorphous powder. It occurs principally in borax and is used in hardening steel. The naturally occurring isotope boron-10 is used in nuclear control rods and neutron detection instruments.	ECC	Emergency Control Centre
CIA	Central Intelligence Agency	KNEP	Koeberg Nuclear Emergency Plan
Donax	A genus of small, edible saltwater clams, marine bivalve molluscs. The genus is sometimes known as bean clams or wedge shells or white mussels; Donax species have numerous different common names in different parts of the world.	CISF	Centralised Interim Storage Facility
CISF	Centralised Interim Storage Facility	SPF	Spent Fuel Pool
CSB	Cask Storage Building	TEM	Traffic Evacuation Model
DOC	Disaster Operations Centre	Evacuation	The rapid, temporary removal of people from the area to avoid or reduce short-term radiation exposure in the event of an emergency.
ECC	Emergency Control Centre	UAE	United Arab Emirates
EIA	Environmental Impact Assessment	INPO	Institute of Nuclear Power Operations
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.	UPZ	Urgent Protective Action Zone
EPZ	Emergency Planning Zone	EPSOC	Emergency Planning Steering and Oversight Committee
FC	Functional Coordinator	CPA	Consumer Protection Act
IPP	Independent Power Producer	KEP	Koeberg Emergency Procedure

		mSv	The millisievert (mSv) is a measure of the absorption of ionising radiation by the human body.
ISO	International Standards Organisation	CCT	City of Cape Town
KNPS	Koeberg Nuclear Power Station	IAEA	International Atomic Energy Agency
NOU	Nuclear Operating Unit	SABC	South African Broadcasting Corporation
SGR	Steam Generator Replacement	TISF	Transient Interim Storage Facility
KPSIF	Koeberg Public Safety Information Forum	WANO	World Association of Nuclear Operators
LTI	Lost Time Injury	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.
MW	Megawatts. A unit of measure - one megawatt is equal to one million watts.	CCGT	Closed Cycle Gas Turbines
NECSA	South African Nuclear Energy Corporation SOC Limited	DOC	Disaster Operations Centre
NNR	National Nuclear Regulator	NOSCAR	The grading of NOSA for safety performance.
NOSA	National Occupational Safety Association	Radiation	Energy released in the form of particles or electromagnetic waves during the breakdown of radioactive atoms.
NSRB	Nuclear Safety Review Board	NRWDI	National Radiation Waste Disposal Institute
OCA	Owner Controlled Area	AECC	Alternate Emergency Control Centre
OEM	Original Equipment Manufacturer	FME	Foreign Material Exclusion
Outage	Refers to the maintenance period on a power plant when a number of activities are performed on equipment that keeps the plant running.	National Electricity Grid	The network of high-voltage power lines fed by the various power stations, which supplies electricity to the country.
PAZ	Precautionary Action Zone	EP	Emergency Plan
PSM	Power Station Manager	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 situation.
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.	EMP	Environmental Management Plan
Release	The controlled or accidental discharge of radioactive substances into the environment.	UPZ	Urgent Protective Action Planning Zone
SAPS	South African Police Service	KCWIB	Koeberg Cooling Water Intake Basin
SHEQ	Safety Health Environment and Quality	WAC	Waste Acceptance Criteria
SSA	Sea Shore Act	SAMG	Severe Accident Management Guideline
TEM	Traffic Evacuation Model	NERSA	National Energy Regulator of South Africa
UAG	Unplanned Automatic Grid Separation	Hazmat	Hazardous material

1. Welcome

The Chairperson, Ms Smokie La Grange, welcomed everyone to the June 2022 PSIF despite loadshedding. She confirmed that a quorum was present as per the Koeberg PSIF Constitution.

2. Safety briefing

Mr Phidza highlighted the fact that everyone should ensure that they are safe wherever they are, ensure doors of their homes are locked especially the back doors, that they adhere to COVID-19 protocols and ensure that they are able to evacuate in case of an emergency.

3. MS Teams meeting protocol and PSIF Code of Conduct

The chairperson informed the members that the PSIF protocol and PSIF Code of Conduct will be rotating on their screens for members to view. She asked members to ensure their cellphones are muted. She informed them that the meetings are recorded for reference and minute-taking purposes and asked them to mute their microphones and videos unless they are speaking.

4. Apologies

The following apologies were tendered

- Mr Cyril Mack (PSIF Deputy Chairperson)
- Mr Peter Browne
- Mr Nick and Mrs Anne Lee
- Mr and Mrs Mayhew
- Mr Duval La Grange
- Mr Paul Naylor
- Cllr Swart
- Mr John Jones
- Mr Peter Browne
- Mr Deon Jeannes
- Mr Marc Maree
- Mr Mahesh Valaitham
- Mr Mothusi Ramerafe
- Mr Franco Johannes
- Mr Graham Julius
- Mr Ricky Lenders

5. Acceptance of the Minutes of the previous meeting of 31 March 2022

The Minutes of the 31 March 2022 meeting were approved by Ms Nomawethu Mtwebana and seconded by Ms Smokie La Grange.

5.1 Action list review – 31 March 2022 (see updated Action Item list at end of Agenda)

Mr Featherstone presented the 31 March 2022 Action item review with all the close out actions. He confirmed that all actions for the 31 March 2022 meeting have been closed out. See below for the Actions items and corresponding feedback.

Mr Featherstone presented the feedback/status on the Action Item list:

Action item 1: Opening of the Nature Reserve.

As reported in the previous meeting, work by the City of Cape Town is still in progress on the dams in the Nature Reserve which hopefully should be completed at the end of June. In addition, there is currently a security issue, due to the external strike action which is also providing a threat to the opening of the Nature Reserve. Once both issues have been resolved, the reserve will be opening, which should hopefully will be around the end of July 2022.

Action item 2: Feedback on the incorrect valve being cut out

To be covered in the Quarterly Feedback presentation

Action item 3: Information on Senior Management Oversight in preventing accidents

To be covered in the Koeberg quarterly feedback presentation

Action item 4: Status of potassium iodate tablets (how is it controlled and managed especially with regards to expiry dates)

On the Agenda. To be presented by the City of Cape Town

6. Presentations:

- 6.1. **Koeberg quarterly feedback** - Ms Nomawethu Mtwebana
Koeberg Power Station General Manager (Acting)

Question by Mr Harrison

Mr Harrison enquired whether the differently painted colours that the Koeberg units have been painted (for easy identification), are colour blind safe.

Response by Ms Mtwebana

Ms Mtwebana informed the member that the colours are completely different from each other and would not result in confusion to those that are colour blind.

Response by Ms Stephanus

Ms Stephanus explained that the colour coding that has been used in a number of areas on the plant, has not raised any concern over the years with individuals that are colour blind. She further explained that the recent colour coding was to extend this practise to areas on the plant that were not previously identified as potential risks for wrong unit operation.

6.2 Koeberg Emergency Plan Overview: Ms Mandy Thomas - Head: Special Planning & Critical Infrastructure Disaster Risk Management Centre – Ms Mandy Thomas - City of Cape Town

Question by Ms La Grange

Ms La Grange asked for an explanation of the first and second fission barrier and also whether there is a third and fourth barrier.

Response by Mr Touffie

Mr Touffie explained that the first fission barrier is the fuel cladding that contains uranium fuel and any fission products within the fuel rods. The second barrier comprises the actual piping and components of the primary cooling circuit such as

the reactor pressure vessel itself and all the associated pressure boundary equipment and components. The 3rd barrier is the actual concrete containment buildings which has a steel liner on the inside.

6.3 Update on the distribution of Potassium Iodate tablets: Ms Bettie Leedo Programme Manager: Environmental Health, City Health – City of Cape Town.

There were no questions posed by the members in attendance, in response to the presentation.

7. General

A question was submitted via email prior to the meeting, by Mr Naylor (who tendered his apologies). Mr Naylor enquired about the possibility of increasing the frequency of the PSIF meetings due to not completing the Agenda items and since we do not manage to address all the questions posed in meeting.

Response by Mr Featherstone

Mr Featherstone explained that this raised a few times in the PSIF and that it was born out of the fact that in the past we did not manage to cover all the Agenda items. He stated that it is the second meeting in a row where we've managed to address all the Agenda items within the allocated time. He suggested that we review all the future meetings and if we find that we don't manage to address all the agenda items within the time frame allocated, we can reconsider the suggestion made by Mr Naylor to increase the frequency of the meetings and bring the topic back to the PSIF for discussion.

Comment by Ms La Grange

Ms La Grange indicated The PSIF Constitution stipulate that we have four meetings per year.

Comment by Mr Phidza

Mr Phidza informed the members that the members of the public who were not able to attend the PSIF meeting, a copy of the recording could be made available to them upon request.

8. Proposed Agenda items for the next meeting

- Koeberg Quarterly Feedback
- Nuclear Public Education Programme (*how do we educate the public?*)
- SGR Plan (to be added as part of Quarterly feedback)

9. Date of next meeting

Thursday, 29 September 2022

10. Closing

The Chairperson wished everyone a *safe passage* (based on the name of the favourite horse participating in the Durban July) until the next PSIF meeting. The PSIF meeting was adjourned at 20:10

PSIF Action item list – 30 June 2022

No.	Action	Raised by	Comment
1.	Increasing the frequency of the PSIF meetings	Mr Naylor	Mr Featherstone addressed the issue in the PSIF meeting under General. He explained that for the past two PSIF meetings we have managed to address all the Agenda items and questions within the allocated time frame, that the topic be revisited when the need arises.