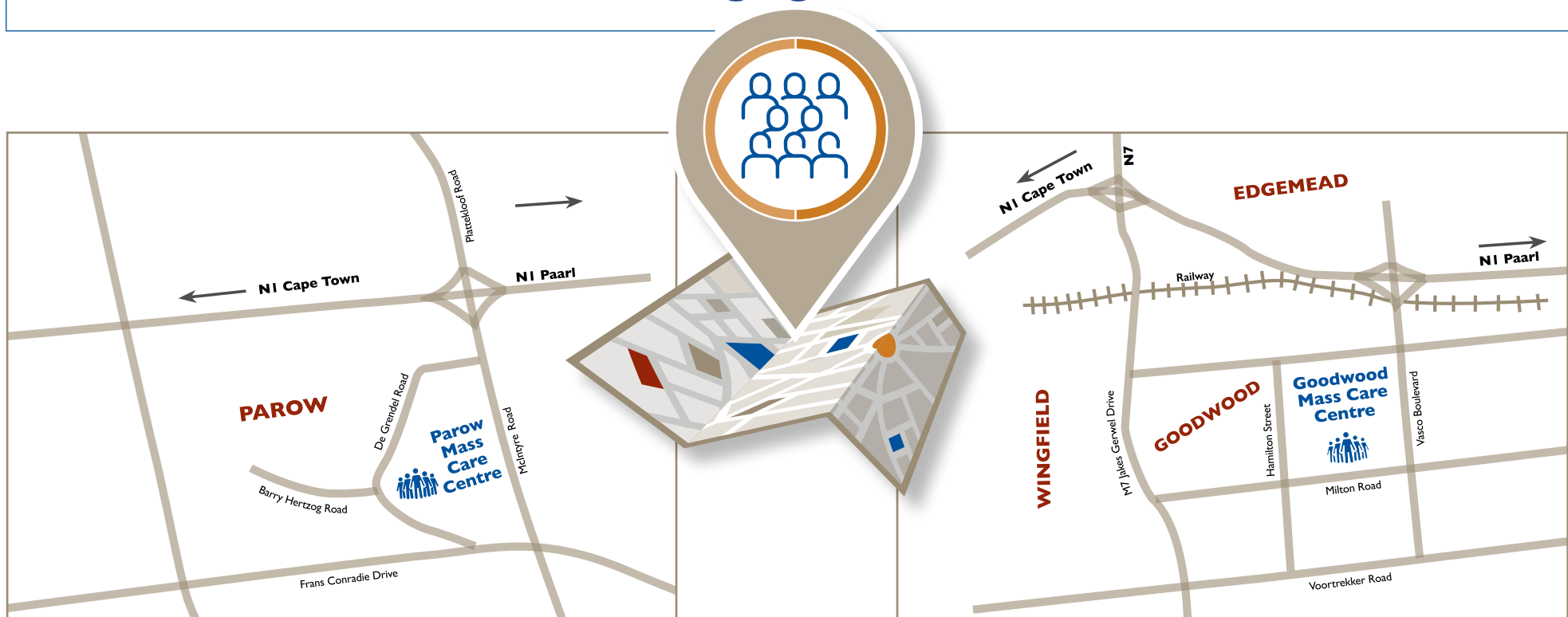


Mass Care Centres • Massaversorgingsentrums • Iindawo Zokukhathalela



Parow Mass Centre

Corner of De Grendel Road and Barry Hertzog Road

Goodwood Mass Centre

Corner of Hamilton Street and Milton Road

For more information, contact the Koeberg Visitors Centre

Tel +27 21 550 4667 • **Fax** +27 21 550 5120 • www.eskom.co.za • Eskom Holdings SOC Ltd Reg No 2002/015527/30

Koeberg Nuclear Power Station

Emergency Plan Calendar



2022

Moving towards **Long Term Operation**

Please do not discard this document.

It contains important information which you will require in case of an emergency at Koeberg Nuclear Power Station.

Dear neighbour



Koeberg Nuclear Power Station has long divided opinion. But say what you will about it, the power station's two nuclear reactors have been steadfastly generating electricity onto the national electricity grid since Unit I was connected to the grid in 1984.

As the power station approaches the expiry of its 40-year operating licence issued by the National Nuclear Regulator (NNR), the power station is preparing itself to continue operating for at least another 20 years.

"How can that be - isn't it old and unsafe?" you may ask. It is important to keep in mind that over the years, a number of critical components have been upgraded, modified, and even replaced, ensuring that nuclear safety and plant reliability is never compromised.

Eskom endeavours to keep you, our neighbour, informed about the power station in various ways. This annual Emergency Plan calendar is one of the platforms that we use to share important information with you. This year's calendar provides you with more insight into the station's planned life extension and long term operation.

Please equip yourself with the information about the power station's plans for the future. Should you have any concerns or queries, please register for, and attend the Koeberg Public Safety Information Forum (PSIF), which is held quarterly. Attending these sessions will help you stay abreast of information related to the power station and its integrated emergency plan.

Under the COVID-19 lockdown restrictions, until further notice, the PSIF will be held via a virtual platform to safeguard our stakeholders, and to comply with COVID-19 requirements. The Koeberg Visitors Centre invites schools and other educational institutions that may wish to learn more about the power station to contact them to make arrangements for a special visit (where possible, the Visitors Centre personnel will travel to schools to share information).

Eskom is encouraged by the South African government's commitment to nuclear, and as the power station looks to the future, we look forward to another generation of South Africans walking through the gates of Koeberg Power Station as employees and proud nuclear professionals. We are committed to keeping the lights on, and serving our nation by providing safe nuclear energy today, tomorrow, and into the future.

Kind regards
Riedewaan Bakardien
Chief Nuclear Officer

Definitions

The terms used in this calendar mean the following:

Accident

An unintended event, including operating errors, equipment failures or other mishaps.

Contamination

The presence of radioactive substances in or on a material or the human body, or any other place where it is undesirable or harmful.

Disaster Management

A continuous and integrated multi-sectoral, multi-disciplinary process of planning, and implementation of measures aimed at:

- a) prevention or reducing the risk of disasters;
- b) limiting the severity or consequences of disasters;
- c) emergency preparedness;
- d) responding rapidly and effectively to a disaster; and
- e) post-disaster recovery and rehabilitation.

Dose

The amount of radiation absorbed by the body or a particular organ.

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

Evacuation

The rapid, temporary removal of people from the area to avoid or reduce short-term radiation exposure in the event of an emergency.

Plant

Koeberg Nuclear Power Station with associated components, machinery, equipment or devices.

Public Notification

Notification to the public in case 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 channels.

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 situation.

The Koeberg Emergency Plan

Koeberg Nuclear Power Station makes use of a nuclear process which, if not controlled, could result in an incident that may result in the release of radioactive material to the environment. This is highly unlikely. Nevertheless, an emergency plan is in place to protect you and your family. Note that this is not unique to Koeberg – an emergency plan is required for all operators of nuclear power plants.

The following information is a brief overview of the Integrated Koeberg Nuclear Emergency Plan and highlights your responsibilities in the event of an emergency at Koeberg Nuclear Power Station. Please read and take note of this information, and keep this calendar for easy reference should the emergency plan be activated.

Why an emergency plan if an accident is unlikely?

Nuclear power is a very safe and effective means of producing electricity. Nuclear power plants are run under strict regulatory controls to ensure that they are operated as designed. Nuclear power plants are also designed with accidents in mind to ensure that the reactor can be safely shut down.

External events, such as earthquakes, aircraft crashes, tsunamis, etc. could negatively affect the safety of the reactor, and even though the probability of such an event is small, nuclear power plant operators are required to plan for all possible eventualities.

The Emergency Plan

Who implements the plan?

A team consisting of members from Eskom, the local authorities, and other support organisations are available around the clock to handle any emergency at the power station. In the unlikely event of an emergency at Koeberg, Eskom will notify the City

of Cape Town Disaster Risk Management Centre immediately. Eskom will recommend appropriate protective actions to the relevant authorities. Representatives of National, Provincial, and Local Government will authorise and implement the appropriate protective actions.

There are four levels of emergency. How are you required to respond to each of them, and how will you be notified?

Unusual Event – the first level

An abnormal occurrence, which indicates an unplanned deviation from normal operations, the actual or potential consequences of which require the partial activation of the emergency plan.

What are you required to do when an Unusual Event is declared?

There are no off-site consequences and no impact or threat to the public; therefore, no action is required by members of the public. This is an on-site event only.

Alert – the second level

An Alert is declared when an event has occurred that could negatively affect the safety of the plant. However, there is no risk to on-site personnel or members of the public. Local authority officials are activated and response facilities are manned and on standby.

What are you required to do in the event of an Alert?

No action is required by members of the public. This is an on-site event only.

How will you be notified in the event of an Alert?

In the event of the declaration of an Alert, press releases will be sent to the media. Members of the public would be informed of the incident at the power station using normal news media. No public sirens will be sounded for this type of incident.

Site Emergency – the third level

In the event of a Site Emergency, a problem exists which could negatively affect on-site personnel. Local authority officials are mobilised at this stage in preparation for the possibility of a more serious situation.

What are you required to do in the event of a Site Emergency?

No action is required by members of the public. This is an on-site event only.

How will you be notified in the event of a Site Emergency?

In the event of a Site Emergency being declared, press releases will be sent to the media. Members of the public would be made aware of the incident at the power station using normal news media. No public sirens will be sounded for this type of incident.

General Emergency – the fourth level

A General Emergency is the most serious but most unlikely emergency situation. Radioactive material could be released from the power station to areas beyond the plant site boundary.

What are you required to do in the event of a General Emergency?

Go indoors, close all doors and windows, switch off air-conditioning, turn on your radio and listen to Good Hope FM, Kfm, or turn on your television and watch the local SABC television channels for updates. Follow all instructions that are issued.

How will you be notified in the event of a General Emergency being declared?

Precautionary Action Zone (PAZ) – 5km radius from Koeberg

If you live within 5km of the power station, also known as the PAZ, it is a legal requirement that the area be evacuated as soon as is practically possible after a General Emergency has been declared. The public sirens will be sounded indicating that evacuation of the area is required. This instruction will also be relayed to you via Good Hope FM, Kfm, and SABC television channels.

Urgent Protective Action Zone (UPZ) – 16km radius from Koeberg

It is highly unlikely that the entire area within the 16km radius surrounding Koeberg will be affected as the release of radioactive material would travel downwind from the power station. The public sirens in the affected area will be sounded, and instructions will be issued on Good Hope FM, Kfm, and SABC television channels.

What should you do if you are instructed to evacuate?

Only people residing in the PAZ and UPZ could be instructed to evacuate, since only people in these areas could potentially be exposed to levels of radiation greater than what is acceptable. Under most weather conditions, only the parts of the UPZ that is downwind of the power station will be evacuated.

If you are instructed to evacuate, you will be guided to a Mass Care Centre (as indicated on the back page of this calendar) by local authorities so that you and your belongings can be checked for possible contamination. Gather what you and your family will need. You will likely have to be away from home for a few days. As a minimum, take the following items along if you are able to do so:

- This calendar;
- Spectacles or prescription contact lenses;
- A pillow, blankets, sheets, or a sleeping bag;
- A small foam mattress;
- Two changes of clothing, including a jersey or coat;
- Prescribed medication;
- It is not necessary to take any food, except special foods for medical reasons;
- Toiletry items;
- Cash, bank cards, identity documents, etc.;
- A portable radio and batteries;
- A torch and batteries;
- Cellphone and charger as well as a power adaptor, if required;
- The telephone numbers of close friends and/or family members.

What precautions should you take to secure your home?

- Take all the normal precautions as if you were leaving the house for a holiday. Lock all outside doors, close windows, and arm your alarm if you have one.
- The police will ensure the safety of your home while you are away. You will be notified by Disaster Risk Management and the news media when you can return.

How do you evacuate the area?

Travelling by car

If you have a car, you should use it if you are instructed to evacuate the area. If possible, take neighbours who don't have transport with you. Follow the route indicated to you via the radio to travel to the Mass Care Centres shown on the back of this calendar. Refer to the Evacuation Routes Map in the centre of this calendar. Familiarise yourself with this map. Identify the zone that your house is situated in, as well as where the nearest evacuation routes are to your home. Drive carefully, stay calm, and obey all traffic regulations, for your own and others' safety. Traffic officers will be present along the route to assist and direct you. Traffic will be controlled and directed in order to prevent vehicles driving through the affected areas.

As a resident residing in the 16km radius of Koeberg Nuclear Power Station, you are advised to have enough fuel in your vehicle in case of an evacuation.

Travelling by bus

Specially arranged buses will transport you to the Mass Care Centres. They will travel along normal bus routes at regular intervals. If you do not have transport, please go to the nearest bus route where you will be collected. In areas where there are no bus routes, radio announcements will inform you of where to catch the special buses and taxis which will be operating in these areas.

Children at school

Your school-going children will be well cared for. Disaster Risk Management personnel will be in constant contact with local schools.

Where you should go

This is dependent on whether a release of radioactive material has occurred or not. If not, please travel to friends or members of your family who live anywhere outside the affected areas. Should you be unable to travel to family or friends outside the affected areas, you need to travel to a Mass Care Centre as shown on the back of this calendar.



Please see the centre spread of this calendar for the full map. Mass Care Centres are shown on the back of this calendar.

The location of available Mass Care Centres will be specified using the aforementioned local radio and television channels. Mass Care Centres will provide you with meals and a place to stay while you are away from home. The sick and elderly will be cared for by trained medical staff, who will also be able to provide medication.

In the event of a radioactive release, you will be directed to a Mass Care Centre to be checked for any contamination. After decontamination, you will be free to relocate to friends, family, or to remain at the Mass Care Centre.

Why would potassium iodate tablets be issued in the event of being exposed to radioactive material?

As your body cannot distinguish between radioactive material and non-radioactive material, any intake of radioactive material that has the same chemical properties of food will be regarded as food. This is the case with the absorption of iodine by the thyroid gland. In the event of an accident at Koeberg where radioactive iodine can be released, it will, if inhaled or ingested, be absorbed by the thyroid. Potassium iodate tablets are taken to saturate the thyroid gland with stable iodine, so that, no absorption of radioactive iodine will take place (dosage will be supplied when tablets are issued). The Disaster Risk Management organisation will make these tablets available and issue them at strategic locations.

What should you do if you are instructed to shelter?

To shelter means staying indoors (inside a building). If you receive instructions to shelter, you should do the following (this could be at home, work, or school):

- Stay indoors until further notice;
- Close all windows and doors to keep outside air out;
- If you need to go outside, protect yourself from breathing in radioactive material by placing a damp cloth or towel over your nose and mouth;
- Switch off systems that draw in outside air, such as air-conditioning units, fireplaces, and dampers;
- Minimise the use of the telephone – this will assist in ensuring that phone lines are available for emergency use;
- If you are in a car, close the windows and air vents, and leave the affected area;
- Be a good neighbour. If you see anyone outside, advise them to take shelter;
- Do not try to collect your children at school.
- Children who are at school during an emergency will be cared for until you are able to collect them;

- Inform and help the elderly and handicapped;
- Don't panic. Sheltering provides significant protection against radiation;
- Continue listening to your radio for further instructions.

How are the public sirens tested?

Koeberg uses a radio system which controls the communication between the control centres and each individual siren. Communication checks are performed daily, and any sirens not communicating with the control station are repaired as soon as possible. A weekly check is also conducted to power up the siren amplifiers to check their functionality. This is known as a “quiet test” and does not require the actual sounding of the public siren system.

It is a requirement to sound the public sirens at full volume annually. You will be notified in advance of these tests. You will be informed of the start and end of the test by way of announcements made over the siren system. During these tests, it is important that you ensure that your pets are indoors or in an area where they cannot escape. Due to the volume and the tone of the wailing test, dogs have been known to run away from their homes. The total duration of the annual test is approximately 45 minutes. If any sirens do not sound as required, only those sirens may be sounded again – once again, you will be notified of this. The date for the Full Volume Siren Test is indicated in this calendar, as well as the day(s) when individual sirens may be retested if required.

How can you monitor the progress of a nuclear incident?

Regular joint media announcements will be made and broadcast using all available news media. Typical information would be around the mitigation of the incident at the plant, the protective actions that have been or are being implemented, and any other information pertaining to public safety. The news media will be fully informed by Eskom and Disaster Risk Management of the affected areas.

What is meant by food banning?

Banning of foods is only applicable to farm and home-grown crops. In the event of a major incident at Koeberg Nuclear Power Station, the Department of Agriculture will issue periodic information regarding the safety of using home-grown produce.

Your crops

- An unharvested crop is hard to protect, but normal harvesting and processing may still be possible if time permits.
- Crops already harvested will be safer for consumption if they are stored inside.
- You should wash and peel vegetables and fruits from your garden before use if they were not harvested before the declaration of an incident that requires food banning.
- Remember that livestock that graze in contaminated fields will ingest radioactive material which will be absorbed into the animal's system, thereby making the product derived from these animals dangerous for consumption.

To protect your livestock

- Provide as much shelter as possible. If you do not have enough space in barns or sheds, use natural shelters such as wooded lots or culverts.
- Take care of dairy animals first.
- Provide plenty of food and water and make sure that shelters are well-ventilated.
- Use stored fodder where possible.

Please refer to the last page of this calendar for the location of Mass Care Centres and maps.

The Koeberg Public Safety Information Forum (PSIF) meetings are held four times per year. Should you wish to obtain more information about these meetings, please contact Koeberg Stakeholder Management

tel. +27 21 550 5758/4238

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Die Koeberg Noodplan

Koeberg-kernkragstasie maak gebruik van 'n kernproses wat, indien dit nie beheer word nie, 'n insident kan veroorsaak wat die vrystelling van radioaktiewe materiaal in die omgewing tot gevolg kan hê. Dit is hoogs onwaarskynlik. Daar is nietemin 'n noodplan vir die beskerming van u en u gesin. Let daarop dat dit nie uniek is aan Koeberg nie – 'n noodplan is nodig vir almal wat kernkragstasies bedryf.

Die volgende inligting is 'n kort oorsig van die Geïntegreerde Koeberg-kernnoodplan en vestig die aandag op u verantwoordelikhede in geval van 'n noodgeval by die Koebergkernkragstasie. Lees dit asseblief en let op hierdie inligting. Hou asseblief hierdie kalender byderhand sodat u maklik daarna kan verwys indien die noodplan geaktiveer word.

Waarom 'n noodplan as 'n ongeluk onwaarskynlik is?

Kernkrag is 'n baie veilige en doeltreffende manier om elektrisiteit op te wek. Kernkragstasies word onder streng reguleringsmaatreëls bedryf om te verseker dat hulle volgens hulle ontwerp bedryf word. Kernkragstasies word ook ontwerp met ongelukke in gedagte om te verseker dat die reaktor veilig afgesluit kan word. Eksterne gebeure, soos aardbewings, tsoenami's, vliegtuigongelukke, ens. kan 'n negatiewe uitwerking op die veiligheid van die reaktor hê. Alle kernkragstasies in bedryf moet beplan vir alle moontlike gebeurlikhede al is so 'n gebeurtenis redelik onwaarskynlik.

Die Noodplan

Wie implementeer die plan?

'n Span wat bestaan uit lede van Eskom, die plaaslike owerhede en ander ondersteuningsorganisasies is dag en nag beskikbaar

om enige noodgeval by die kernkragstasie te hanteer. In die onwaarskynlike geval van 'n noodgeval by Koeberg, sal Eskom die Stad Kaapstad se Rampriskobestuursentrum onmiddellik daarvan in kennis stel. Eskom sal gepaste beskermende optrede aan die toepaslike owerhede aanbeveel. Verteenwoordigers van die Nasionale, Provinsiale en Plaaslike Regering sal die gepaste beskermende optrede magtig en implementeer.

Daar is vier vlakke van noodgevalle by Koeberg. Hoe tree mens op in elke vlak, en hoe sal u in kennis gestel word?

Ongewone Gebeurtenis – die eerste vlak

'n Abnormale gebeurtenis wat 'n onbeplande afwyking van normale bedrywighede aandui, en waarvan die werklike of potensiële gevolge die gedeeltelike of beperkte aktivering van die noodplan vereis.

Wat word van u verwag om te doen in die geval van 'n Ongewone Gebeurtenis?

Geen aksie word deur lede van die publiek vereis nie, aangesien daar geen impak of bedreiging buite die aanleg se terreingrense is nie. Dit is slegs 'n aanleg gebeurtenis.

Waarskuwing – die tweede vlak

'n Waarskuwing word uitgereik wanneer 'n voorval plaasgevind het wat moontlik 'n negatiewe uitwerking op die veiligheid van die aanleg kan hê. Daar is egter geen risiko vir terreinpersoneel of die publiek nie. Beampes van die plaaslike regering word geaktiveer en reaksiefasiliteite word beman en op gereedheidsgrondslag geplaas.

Wat moet u doen in geval van 'n Waarskuwing?

Geen aksie deur die publiek word benodig nie. Dit is net 'n terreingebeurtenis.

Hoe sal u in kennis gestel word van 'n Waarskuwing?

Indien 'n Waarskuwing verklaar word, sal persverklarings aan die media vrygestel word. Die publiek sal deur middel van die gewone nuusmedia van die gebeurtenis by die kragstasie in kennis gestel word. Geen openbare sirenes sal vir hierdie soort voorval gebruik word nie.

Terreinnoodgeval – die derde vlak

In geval van 'n Terreinnoodgeval ontstaan 'n probleem wat 'n negatiewe uitwerking op terreinpersoneel kan hê. Beampes van plaaslike regerings word op hierdie stadium gemobiliseer ter voorbereiding van 'n ernstiger situasie.

Wat moet u doen in geval van 'n Terreinnoodgeval?

Geen aksie deur die publiek word benodig nie. Dit is net 'n terreingebeurtenis.

Hoe sal u in kennis gestel word van 'n Terreinnoodgeval?

Indien 'n Terreinnoodgeval verklaar word, sal persverklarings aan die media vrygestel word. Die publiek sal deur middel van die gewone nuusmedia van die gebeurtenis by die kragstasie in kennis gestel word. Geen openbare sirenes sal vir hierdie soort voorval gebruik word nie.

Algemene Noodgeval – die vierde vlak

'n Algemene Noodgeval is die ernstigste maar onwaarskynlikste noodsituasie. Radioaktiwiteit kan vrygestel word wat na die gebiede buite die kragstasieterrein kan versprei.

Wat moet u doen in geval van 'n Algemene Noodgeval?

Gaan binnehuis en maak al die deure en vensters toe, skakel lugversorging af, skakel u radio aan en luister na Good Hope FM, Kfm, of skakel u televisie aan en kyk na die SABCtelevisiekanaal vir nuus. Volg alle instruksies wat gegee word.

Hoe sal u in kennis gestel word as 'n Algemene Noodgeval verklaar word?

Voorsorgaksie-sonne (VAS) –5km-radius van Koeberg

Indien u binne 5km van die kernkragstasie woon, wat ook as die VAS bekend staan, is dit 'n wetlike vereiste dat die gebied so gou prakties moontlik ontruim moet word nadat 'n Algemene Noodgeval verklaar is. Die openbare sirenes sal gebruik word om aan te dui dat ontruiming van die gebied nodig is. Hierdie instruksie sal ook via Good Hope FM, Kfm en plaaslike SABC-televisiekanaale aan u oorgedra word.

Dringende Beskermende Aksiesone (DBS) – 16km-radius van Koeberg

Dit is uiters onwaarskynlik dat die hele gebied binne die radius van 16km rondom Koeberg geraak sal word, aangesien die vrystelling van radioaktiewe materiaal windaf van die kragstasie sal beweeg. Die openbare sirenes in die aangetaste gebied sal gebruik word, en instruksies sal oor Good Hope FM, Kfm en plaaslike SABC-televisiekanale bekendgemaak word.

Wat moet u doen as u aangesê word om die gebied te ontruim?

Net mense wat in 'n windaf rigting binne die VAS en DBS woonagtig is kan aangesê word om te ontruim omdat net persone in hierdie sones moontlik blootgestel kan word aan bestraling wat hoër as die aanvaarde norm is. In die meeste weersomstandighede sal slegs die windaf gedeelte van die DBS geraak word. Indien u aangesê word om te ontruim, sal u na 'n Massaversorgingsentrum verwys word soos op die keersy van hierdie kalender aangetoon is. Hier sal u en u besittings nagegaan word vir moontlike bestraling.

Maak bymekaar wat u en u gesin sal nodig hê. U sal waarskynlik 'n paar dae van die huis moet wegby.

Neem ten minste die volgende artikels saam met u as dit moontlik is:

- Hierdie kalender;
- Bril of voorskrifkontaktlense;
- 'n Kussing, komberse, lakens of 'n slaapsak;
- 'n Klein sponsmatras;
- Twee stelle skoon klere, insluitend 'n trui of jas;
- Voorskrifmedisyne;
- Dit is nie nodig om enige kos saam te neem nie, behalwe spesiale kos om mediese redes;
- Toiletware;
- Identiteitsdokumente, kontant, bankkaarte, ens.;
- 'n Draagbare radio en batterye;
- 'n Flitslig en batterye;
- Selfoon en laaier sowel as 'n kragpasstuk, indien nodig;
- Die telefoonnommers van vriende en/of familieleden.

Watter voorsorgmaatreëls moet u tref om u huis te beveilig?

Tref alle normale voorsorgmaatreëls asof u met vakansie gaan. Sluit alle buitendeure, maak vensters toe en aktiveer u alarm as u een het.

Die polisie sal die veiligheid van u huis verseker terwyl u weg is. U sal deur Ramprisikobestuur en die nuusmedia in kennis gestel word wanneer u kan terugkeer.

Hoe ontruim u die gebied?

Per motor

As u 'n motor het, gebruik dit as u aangesê word om die gebied te ontruim. Neem indien moontlik bure wat nie vervoer het nie, saam met u. Volg die roete wat oor die radio aanbeveel word om na die Massaversorgingsentrum wat agterop hierdie kalender aangedui word te reis. Verwys na die Ontruimingsroetekaart in die middel van hierdie kalender. Raak vertrouwd met hierdie kaart. Stel vas in watter sone u huis geleë is, asook waar die naaste ontruimingsroete aan u huis is. Ter wille van u eie veiligheid en dié van ander, bestuur versigtig, bly kalm en gehoorsaam alle verkeersreëls. Verkeersbeamptes sal langs die roete teenwoordig wees om u te help en instruksies te gee. Verkeer sal beheer word om te verhoed dat voertuie deur die besmette gebiede ry.

Per bus

Spesiale busse sal u na die Massaversorgingsentrum neem. Hulle sal met gewone tussenposes langs gewone busroetes beweeg. Indien u nie vervoer het nie, gaan asseblief na die naaste busroete, waar u opgelaaï sal word. In gebiede waar daar geen busroetes is nie, sal radio aankondigings u inlig van waar u die spesiale busse en taxi's kan kry wat in hierdie gebiede ontplooi sal word.

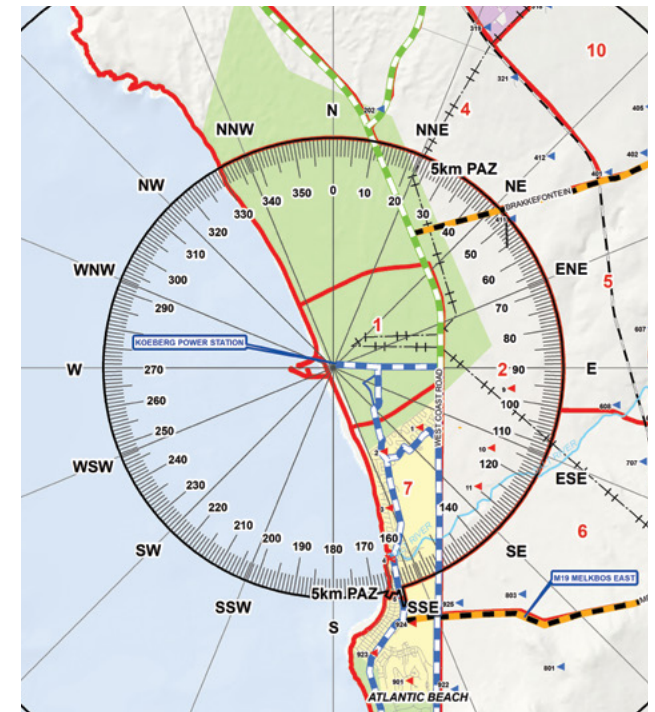
Kinders op skool

U skoolgaande kinders sal goed versorg word. Ramprisikobestuurspersoneel sal gedurig in verbinding met plaaslike skole wees.

Waarheen moet u gaan?

Dit hang daarvan af of radioaktiewe materiaal vrygestel is of nie. Indien nie, reis asseblief na vriende of familieleden wat op enige plek buite die aangetaste gebiede woon. Indien u nie na familie of vriende buite die aangetaste gebiede kan reis nie, moet u na 'n Massaversorgingsentrum gaan soos agterop hierdie kalender aangedui. Die ligging van beskikbare Massaversorgingsentrums sal gespesifiseer word deur van die voorgenoemde plaaslike radio- en TV-kanale gebruik te maak. Massaversorgingsentrums sal u van etes en verblyf voorsien terwyl u weg van u huis is. Die siekes en bejaardes sal versorg word deur opgeleide mediese personeel, wat ook medisyne kan voorsien.

Indien 'n radioktiewe vrystelling plaasvind, sal u na 'n Massaversorgingsentrum gestuur word om vas te stel of u besmet



Verwys asseblief na die middelblad van hierdie kalender om die volle kaart te sien. Die Massaversorgingsentrums word op die agterblad van hierdie kalender aangedui.

is. Ná ontsmetting sal u na vriende of familie kan gaan of by die Massaversorgingsentrum bly.

Waarom sal kaliumjodaat tablette uitgereik word as u aan radioaktiewe materiaal blootgestel is?

Aangesien u liggaam nie tussen radioaktiewe en nie-radioaktiewe materiaal kan onderskei nie, sal enige radioaktiewe materiaal met dieselfde chemiese eienskappe as kos wat u inneem, as kos beskou word. Dit is die geval met die absorpsie

van jodium deur die skildklier. Indien 'n ongeluk by Koeberg plaasvind waarin radioaktiewe jodium vrygestel kan word, sal die jodium deur die skildklier geabsorbeer word as dit ingesam of ingeneem word. Kaliumjodaat tablette word geneem om die skildklier te versadig met stabiele jodium sodat geen absorpsie van radioaktiewe jodium sal plaasvind as radioaktiewe jodium ingeneem word nie (dosering sal voorsien word wanneer die tablette uitgereik word). Die Ramprisikobestuurorganisasie sal hierdie tablette beskikbaar stel en dit sal by strategiese plekke uitgereik word.

Wat moet u doen as u aangesê word om skuiling te soek?

- Om skuiling te soek, beteken om binnenshuis te bly (binne- in 'n gebou). Indien u instruksies ontvang om skuiling te soek, moet u die volgende doen (dit kan by die huis, werk, of skool wees):
- Bly binne tot verdere kennisgewing;
- Maak alle vensters en deure toe om die buitelug buite te hou;
- As u buite moet gaan, beskerm u teen die inaseming van radioaktiewe materiaal deur 'n klam lap of handdoek oor u neus en mond te hou;
- Skakel stelsels af wat buitelug intrek, soos lugversorgingseenhede, kaggels en dempers;
- Beperk die gebruik van die telefoon tot die minimum – dit sal help om te verseker dat telefoonlyn beskikbaar is vir noodgebruik;
- As u in 'n motor is, maak die vensters en lugopeninge toe en verlaat die aangetaste gebied;
- Wees 'n goeie buurman. As u enigiemand buite sien, sê vir hulle om skuiling te soek;
- Moenie probeer om u kinders by die skool te gaan haal nie. Kinders wat gedurende 'n noodgeval by die skool is, sal versorg word totdat u hulle kan gaan haal;
- Vertel en help die bejaardes en gestremdes;
- Moenie panikerig raak nie. Skuiling bied genoegsame beskerming teen bestraling;
- Hou aan om na u radio te luister vir verdere instruksies.

Hoe word die openbare sirenes getoets?

Koeberg gebruik 'n radiostelsel wat die kommunikasie tussen die beheersentrums en elke individuele sirene beheer. Kommunikasie kontroles word daaglik gedoen en enige sirene wat nie met die beheerstasie kommunikeer nie, word so gou moontlik herstel. 'n Weeklikse kontrole word ook gedoen om die sireneversterkers te toets om te verseker dat dit funksioneel is. Dit word 'n “stil toets” genoem en vereis nie die loei van die sirenes nie.

Dit is 'n vereiste dat die openbare sirenes jaarliks teen volle sterkte gelui word. U sal vooraf van hierdie toetse gewaarsku word. U sal deur middel van aankondigings oor die sirenestelsel ingelig word van die begin en einde van die toets. Gedurende hierdie toetse is dit belangrik dat u seker maak dat u troeteldiere binnenshuis is of in 'n gebied waaruit hulle nie kan ontsnap nie. As gevolg van die klanksterkte en die toon van die sirene, is dit bekend dat honde soms van hul huise weghardloop. Die totale duur van die jaarlikse toets is ongeveer 45 minute. As enige sirene nie soos nodig werk nie, sal slegs daardie sirenes weer getoets word – weereens sal u daarvan in kennis gestel word. Die datum van die volle krag sirenetoetse word in hierdie kalender aangedui, sowel as die dag/dae waarop individuele sirenes moontlik hertoets sal word, indien nodig.

Hoe kan u die vordering van 'n kerninsident monitor?

Gereelde gesamentlike media- en pers aankondigings sal gedoen en uitgesaai word deur van alle beskikbare nuuskanale gebruik te maak. Tipiese inligting sal handel oor die bekamping van die insident by die aanleg, die beskermende optrede wat geïmplementeer is of word en enige ander inligting wat verband hou met openbare veiligheid. Eskom en Ramprisikobestuur sal die nuusmedia ten volle van die aangetaste gebiede op hoogte hou.

Wat beteken 'n verbod op kosprodukte?

Die verbod op die gebruik van sekere kossoorte is net van toepassing op boere en tuisgekweekte gewasse. In geval van 'n groot insident by Koeberg-kernkragstasie sal die Departement van Landbou van tyd tot tyd inligting uitreik aangaande die veiligheid van die gebruik van tuisgekweekte produkte.

U gewasse

- Dit is bykans onmoontlik om gewasse in die veld te beskerm. Probeer om noodsaaklike gewasse te oes mits tyd daarvoor beskikbaar is.
- Gewasse wat reeds geoes is, sal veiliger wees as dit binnenshuis geberg word.
- Groente en vrugte uit u tuin moet voor gebruik gewas en afgeskil word indien dit geoes is ná die verklaring van 'n insident wat 'n verbod op voedsel noodsaak.

Onthou dat vee wat in 'n besmette veld wei, radioaktiewe materiaal sal inneem wat deur die dier se liggaam geabsorbeer sal word. Dus sal die vleis of melk wat van so 'n dier afkomstig is gevaarlik wees vir menslike verbruik.

Om u vee te beskerm

- Voorsien soveel skuiling as moontlik. Indien u nie genoeg ruimte in skure of hokke het nie, maak gebruik van natuurlike skuilings soos beboste gebiede of slote.
- Sorg eerstens vir melkdiere.
- Voorsien genoeg kos en water en sorg dat skuilings goed belug is.
- Gebruik gebergde voer waar moontlik.
- Verwys asseblief na die agterblad van hierdie kalender vir Massaversorgingsentrums en kaarte.

Vergaderings van die Koeberg Forum vir Openbare Veiligheidsinligting word kwartaalliks gehou. As u verdere inligting oor hierdie vergaderings wil verkry, kontak asseblief Belanghebbersbestuur

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Isicwangciso Semeko Yongxamiseko Yesitishi-mbane weNyukliya saseKoeberg

Sisebenzisa inkqubo yenyukliya enokuthi, xa inokungalawulwa ngokugqibeleleyo, idale isehlo esinokubangela ukuba sikhuphe imichiza edala imitha eyingozi kwindalo esingqongileyo. Le nto ayinakufane yenzeke. Isicwangciso semeko yongxamiseko senziwe ukuze kukhuselwe wena nentsapho yakho. Phawula ukuba le nto ayenziwa eKoeberg kuphela isicwangciso semeko yongxamiseko siyafuneka kuzo zonke izikhululo zombane wenyukliya.

Le nkcazelo ilandelayo ngamagqabantshintshi amafutshane eSicwangciso-gqibelele Semeko Yongxamiseko Yenyukliya eKoeberg, kwaye ikhanyisela wena ngokufanele ukwenze xa kunokuvela imeko yongxamiseko kwiSitishi Sombane Wenyukliya SaseKoeberg. Uyacelwa ukuba uyifunde le nkcazelo, uze ugcine le khalenda kwindawo ebonakalayo nefikelelekayo ngawo onke amaxesha, ukuze kuthi xa kunokwenzeka ukuba kusetyenziswe iSicwangciso Semeko Yongxamiseko eKoeberg ube nakho ukuyisebenzisa. Nceda wazise onke amalungu osapho lwakho ohlala nawo ngale nkcazelo kwakunye nalapho ikhoyo le khalenda.

Kutheni kufuneka iSicwangciso Semeko Yongxamiseko ukuba ingozi ayinakufane yenzeke?

Umbane wenyukliya yindlela ekhuseleke kakhulu nesebenzayo yokuvelisa umbane. Izikhululo zombane wenyukliya zilawulwa ngemiqathango engqongqo ukuze kuqinisekwe ukuba zisetyenziswa ngendlela eyiyo. Izikhululo zombane wenyukliya zakhiwa kucingwa ngeengozi ukuze kuqinisekwe ukuba isakhiwo esiphehla umbane wenyukliya sinokuvalwa ngendlela ekhuselekileyo. Iziganeko ezenzeka ngaphandle, ezifana neenyikima, ukuphahlazeka kweenqwelomoya, iitsunami, njel-njalo, zinokuba negalelo elibi kukhuseleko lwesakhiwo esiphehla umbane wenyukliya, kwaye nangona amathuba okuba kwenzeke loo nto emancinane, ababhexeshi besikhululo sombane wenyukliya kufuneka bacwangcisele zonke izinto ezinokwenzeka.

Ngubani osebenzisa esi sicwangciso?

Ngubani osebenzisa esi sicwangciso?

Iqela elinamalungu avela kwaEskom, kumagunya asekuhlaleni, neminye imibutho exhasayo lifumaneka ngazo zonke iiyure ukuze

lingathe nayiphi na imeko yongxamiseko kwisitishi sombane. Xa kunokwenzeka imeko yongxamiseko ngebhaqo eKoeberg, uEskom uya kwazisa iZiko Lolawulo Lwentslekele LesiXeko SaseKapa ngoko nangoko. UEskom uya kucebisa amanyathelo afanelekileyo okukhusela anokuthathwa ngabasemagunyeni abafanelekileyo. Abameli boRhulumente Welizwe, owePhondo noweNgingqi baya kugunyazisa baze basebenzise amanyathelo okukhusela afanelekileyo.

Ngawaphi amanqanaba amaNe ongxamiseko eKoeberg, yintoni ekufuneka uyenze kwinyathelo ngalinye, kwaye uya kwaziswa njani?

Isiganeko esingaqhelekanga – inqanaba lokuQala

Isehlo esingaqhelekanga esibonisa ukuba isikhululo sisebenza ngendlela engeyiyo eyesiqhelo; nto leyo ebangela ukuba kumiselwe imo yongxunguphalo engaqibelelanga.

Kufuneka wenze ntoni xa kwehle Isiganeko Esingaqhelekanga

Akukho manyathelo afunekayo kumalungu asekuhlaleni nje ngoko esi siganeko singenamiphumela mibi kuluntu ngokubanzi. Esi siganeko sichaphazela isitishi kuphela.

Isilumkiso – inqanaba leSibini

Isilumkiso siye sibhengezwe xa kwenzeke isehlo esinokuchaphazela kakubi ukhuseleko kwisikhululo. Kodwa ke, akukho mngcipheko kubasebenzi besikhululo okanye kubantu basekuhlaleni ngokubanzi. Abasemagunyeni basekuhlaleni bayaziswa kwaye izakhiwo zokusabela kwintlekele ziba nabantu kwaye zilungele ukusabela. Njengomhlali okufutshane kwimida yeSitishi Sombane seNyuKleri saseKoeberg, uyacetyiswa ukuba uhlale unamafutha oneleyo weputula emotweni yakho ngalo lonke ixesha ukulungiselela xa kunokuthiwa makuphunywe kulengingqi.

Yintoni ekufuneka uyenze xa kukhutshwa iSilumkiso?

Akukho nto kufuneka yenziwe ngabahlali. Sisiganeko esenzeka esikhululweni kuphela.

Uya kwaziswa njani xa kukhutshwe iSilumkiso?

Xa kukho iSilumkiso, siya kukhutshwa kwabeendaba. Abahlali baya kwaziswa ngeso sihlo senzeke kwisitishi sombane kusetyenziswa amajelo aqhelekileyo eendaba. Akuyi kukhaliswa maxilongo okulunkisa uwonke-wonke kolu hlobo lwesihlo.

Ungxamiseko Lwasesikhululweni – inqanaba leSithathu

Xa kukho uNgxamiseko Esikhululweni, sukube kukho ingxaki enokuba negalelo elibi kubasebenzi abasesikhululweni. Abasemagunyeni basekuhlaleni bayalunyukiswa kweli nqanaba ukuze kulungiselelwe imeko enokuba mbi nangakumbi.

Yintoni ekufuneka uyenze xa kukho uNgxamiseko Lwasesizeni?

Akukho nto kufuneka bayenze abahlali. Sisiganeko sasesikhululweni kuphela.

Uya kwaziswa njani xa kukho uNgxamiseko Lwasesikhululweni?

Xa kukho uNgxamiseko Lwasesikhululweni, kuya kuchazelwa abeendaba. Abahlali baya kwaziswa ngeso sehlo senzeke kwisitishi sombane kusetyenziswa amajelo aqhelekileyo eendaba. Akuyi kukhaliswa maxilongo okulunkisa uwonke-wonke kolu hlobo lwesehlo.

Ungxamiseko Oluphangaleleyo – inqanaba leSine

Ungxamiseko Oluphangaleleyo yeyona meko yongxamiseko inkulu kodwa engenakufane yenzeke. Kunokuphuma imichiza edala imitha eyingozi kwisitishi sombane iphumele ngaphaya kwemida yesikhululo.

Yintoni ekufuneka uyenze xa kukho uNgxamiseko Oluphangaleleyo?

Ngena endlwini, uvale zonke iingcango neefestile, cima oomatshini bokupholisa umoya, vula unomathotholo wakho uze uphulaphule i-Good Hope FM, i-Kfm, okanye ulayite umabonakude wakho uze ubukele izikhululo zikamabonakude zikaSABC ukuze ufumane inkcazelo. Landela yonke imiyalelo ekhutshwayo.

Uya kwaziswa njani xa kukho uNgxamiseko Oluphangaleleyo?

Ummandla ohlala ulingiselelwe imfuduko – Weniyathelo Lokukhusela (PAZ)

Ukuba uhlala ngaphakathi komda ozikhiilomitha eziNtlanu (5km) ukusuka kwisitishi sombane, ezaziwa nangokuba yi-PAZ, umthetho ufuna ukuba wonke umntu okulo mmandla akhutshwe ngokukhawuleza kangangoko kunokwenzeka emva kokuba kubhengezwe uNgxamiseko Oluphangaleleyo. Amaxilongo alumkisa abahlali aya kukhaliswa evakalisa ukuba abantu bamele baphume kuloo mmandla. Lo myalelo uya kukhutshwa nangeGood Hope FM, iKfm namajelo kamabonakude kaSABC.

UmmandlaWeniyathelo Lokukhusela Elingxamisekileyo (UPZ) – iikhiilomitha ezili-16 ukusuka e-Koeberg macala onke

Akunakufane kwenzeke ukuba wonke ummandla okwiikhiilomitha ezili-16 ezijikeleze iKoeberg uchatshazelwe kukuphuma kwemichiza edala mitha eyingozi, ngenxa yokuba imitha leyo iya kuphetshethwa ngumoya ukusuka kwisitishi sombane ibhekise kwelocala umoya uya ngakulo. Amaxilongo alumkisa abahlali kummandla ochaphazelekayo aya kukhaliswa, kwaye imiyalelo iya kukhutshwa ngeGood Hope, iKfm nangamajelo kamabonakude kaSABC.

Yintoni ofanele uyenze ukuba uyalelwa ukuba uphume kule mimandla?

Uya kuyalelwa ukuba uphume kuphela ukuba uhlala kwi-PAZ kwaye ungakwicala oya ngakulo umoya ukuya kutsho kwiikhiilomitha ezili-16 ukuba kunokwenzeka ukuba ufumane imitha enemichiza eyingonzi (radiation) engaphezulu kwesikelwe yimiyalelo yamazwe ngamazwe. Ukuba imitha eyingozi ye-radiation iye yaphuma e-Koeberg uya kuyalelwa ukuba uye kwiZiko lokuNyamekela uLuntu (eboniswe kwiphepha elingasemva kule khalenda) ngabasemagunyeni basekuhlaleni ukuze wena nempahla yakho nihlolwe ukuba anidibhekanga na. Qokelela izinto oza kuzidinga wena nentsapho yakho. Kusenokwenzeka ukuba ube kude nekhaya kangangeentsuku ezimbalwa. Ubuncinane, thatha ezi zinto ukuba uyakwazi:

- Le khalenda;
- Izipeksi okanye iilensi zamehlo;
- Umqamelo, iingubo, amashiti, okanye ibhegi yokulala;
- Isiponji sokulala;

- Iimpahla zokutshintsha kabini, kuquka ijezi okanye ibhatyi;
- Amayeza owasebenzisayo;
- Akuyomfuneko ukuthatha ukutya, ngaphandle kokutya okukhethekileyo okunento yokwenza nonyango okulo;
- Izinto zokuhlamba nezokuthambisa;
- Imali, amakhadi ebhanki, iincwadi zetsheke, amaxwebhu esazisi, njalonjalo;
- Unomathotholo ophathwayo neebhetri;
- Itotshi neebhetri;
- Iselfowuni netshaja kunye ne-adaptha esebenzayo, ukuba kuyimfuneko;
- Iinombolo zefowuni zabahlobo kunye nezamalungu entsapho asondelelo.

Ngawaphi amanyathelo ofanele uwathathe ukukhusela ikhaya lakho phambi kokuba uhambe?

- Thatha onke amanyathelo aqhelekileyo ngokungathi uya eholideyini. Tshixa zonke iingcango eziphumela ngaphandle, uvale iifestile, uxhobe ialamu ukuba unayo.
- Amapolisa aya kuqinisekisa ukuba ikhaya lakho likhuselekile ngexesha ongekho ngalo. Uya kwaziswa luLawulo Lomngcipheko Wentlekele nangamajelo eendaba ngexesha onokubuya ngalo.

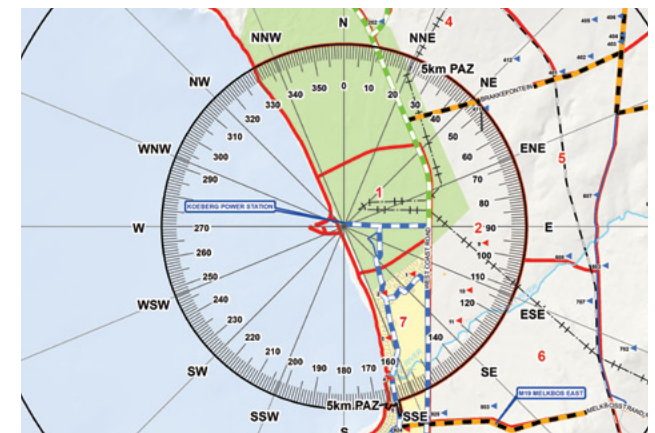
Uphuma njani kulo mmandla?

Xa uhamba ngemoto

Ukuba unemoto, ufanele usebenzise yona ukuba uyalelwa ukuba uphume kulo mmandla. Ukuba kunokwenzeka thatha nabamelwane abangenayo into yokuhamba. Landela indlela oyichazelwe ngonomathotholo, ukuze kwiZiko lokuNyamekela uLuntu eziboniswe ngasemva kule khalenda. Jonga iMephu Zeendlela Zokuphuma kumbindi wale khalenda. Ziqhelanise nale mephu. Fumana ukuba indlu yakho ikuwuphi ummandla, nokuba ziziphi iindlela zokuphuma ezikufutshane nekhaya lakho. Qhuba ngononophelo, zola uze uthobele imithetho yendlela, ukwenzela ukhuseleko lwakho nolwabantu. Amagosa endlela aya kubakho kule ndlela ukuze akuncede yaye akwalathise. Izithuthi ziya kulawulwa kwaye zalathiswe ukuze kungabikho izithuthi ezinqumla imimandla echaphazelekayo.

Xa uhamba ngebhasi

Iibhasi ezilungiselelwe ngokukhethekileyo ziya kukuthatha zikuse kwiZiko lokuNyamekela uLuntu. Ziya kuhamba ngeendlela



Nceda ujonge apha kumbindi we-khalenda malunga ne-mephu epheleleyo. Iindawo Zokukhathalela zibekwe apha ngasemva kule khalenda.

zeebhasi eziqhelekileyo kaliqela. Ukuba akunayo into yokuhamba, nceda uye kumzila weebhasi okufutshane nawe, apho uza kuthathwa khona. Kwiindawo apho kukho imizila yeebhasi, izaziso zikanomathotholo ziya kukwazisa ukuba uza kudibana phi neebhasi neeteki eziza kube zikuloo mimandla.

Abantwana besikolo

Abantwana bethu abasezikolweni zasekuhlaleni bayofumana ukunyamekelwa, kwaye abasebenzi boLawulo Lomngcipheko Wentlekele boqhakamshelana nezikolo ngamaxesho onke. Abantwana bonke bofuduselwa kwizikolo ezimbalwa ezingaphandle kwemimandla echaphazelekayo, zikolo ezo esele zatyunjwayo zalungiselelwa lomsebenzi ngemihla yemo-ntlekele. Ukuba umntwana wakho ufunda kwisikolo esikwisiqingatha seekhiilomitha ezilishumi elinesithandathu (16 km) esijikeleze iKoeberg, unelungelo lokusazi isikolo abonyamekelwa kuso abantwana, koko uyacelwa ubongozwa mzali ukuba ubozola ungaphazamisi, koko ulindele kwabasemagunyeni, ungabalandi abantwana.

Indawo ofanele uye kuyo

Oku kuxhomekeke ekubeni iphumile kusini na imichiza edala imitha eyingozi. Ukuba ayiphumanga, nceda uye kubahlobo okanye kumalungu entsapho yakho ahlala ngaphandle kommandla ochaphazelekileyo. Ukuba akukwazi kuya kwintsapho okanye kubahlobo abangaphandle kommandla ochaphazelekileyo, kufuneka uye kwiNdawo Ekudityanwa Kuyo eboniswe kumva wale khalenda. Indawo ekuyo kwiZiko lokuNyamekela uLuntu iya kuchazwa kusetyenziswa izikhululo zikanomathotholo namajelo kamabonakude achazwe ngaphambili. Ukusuka apha uya kwalathiswa kwiZiko Lokunyamekela Izihlewele.

AmaZiko Okunyamekela Izihlewele aya kukunika ukutya nendawo yokuhlala ngelixa ukwi ziko lokunyamekela izihlewele. Abagulayo nabaluphelelyo baya kunyanyekelwa ngabasebenzi bezonyango abaqeqeshiweyo, abaya kukwazi ukubanika amayeza. Xa kunokwenzeka iphume i-radioactive release, uya kwalathiswa kwiNdawo Ekudityanwa Kuyo ukuze uhlolwe ukuba udyobhekile kusini na. Emva kokuba uhlaniwe, uya kukhululeka ukuba uye kufuna abahlobo, intsapho okanye uye kwiZiko Lokunyamekela Izihlewele.

Kutheni uya kunikwa iipilisi zepotassium iodate xa uchanabeke kwimichiza edala imitha eyingozi?

Ekubeni umzimba wakho ungakwazi ukwahlula phakathi kwemichiza edala imitha eyingozi nemichiza engadali imitha eyingozi, nayiphi na imichiza edala imitha eyingozi engena emzimbeni wakho enemichiza efana nokutya iya kugqalwa njengokutya. Oku kuya kuba njalo ngokufunxwa kweayodini lidlala lengqula. Xa kunokwenzeka ingozi eKoeberg ize iayodini edala imitha eyingozi iphume, iya kuthi, ukuba isezelwe okanye yaginywa, ifunxwe lidlala lengqula. Iipilisi ze-potassium iodate ziselwa ngenjongo yokufaka iayodini ezinzileyo kwidlala lengqula, ukuze xa kunokwenzeka ukuba kungene iayodini edala imitha eyingozi, ingafunxeki emzimbeni (uya kuchazelwa ukuba usele ezingaphi xa unikwa iipilisi). Umbutho woLawulo Lomngcipheko Wentlekele uya kwenza ezi pilisi zifumaneke uze uzikhuphe kwiindawo ezicetyiweyo.

Yintoni ofanele uyenze ukuba uyalelwa ukuba uye ekhusini?

Ukuya ekhusini kuthetha ukuba uhlale ngaphakathi kwisakhiwo eso ukuso. Ukuba ufumana umyalelo otshoyo, ufanele wenze oku kulandelayo:

- Hlala ngaphakathi de waziswe;
- Vala zonke iifestile neengcango kungangeni moya;

- Ukuba ufuna ukuphuma, zikhusele ukuze ungasezeli imichiza edala imitha eyingozi ngokubeka ilaphu okanye itawuli emanzi empumleni nasemlonyeni;
- Cima bonke oomatshini abafaka umoya ovela ngaphandle abafana nabapholisayo, iindawo ekubaswa kuzo noomatshini abafumisa umoya;
- Ungazisebenzisi kakhulu iifowuni – loo nto iya kunceda ekuqinisekiseni ukuba iifowuni ziyafumaneka ukuze zisetyenziselwe imeko yongxamiseko;
- Ukuba usemotweni, vala iifestile neentunja zomoya uze umke kommandla ochaphazelekayo;
- Yiba ngummelwane olungileyo. Ukuba ubona umntu ngaphandle, mcebise ukuba angene ngaphakathi;
- Ungazami ukuyolanda abantwana bakho esikolweni. Abantwana abasesikolweni ngexesha lemeko yongxamiseko baya kunyamekelwa de ukwazi ukubalanda;
- Chazela uze uncede abaluphelelyo, abazizithulu nabakhubazekileyo;
- Ungaphakuzeli. Ukuhlala ngaphakathi kuyakhusela kwi-radiation;
- Qhubeka uphulaphule kunomathotholo wakho ukuze ufumane eminye imiyalelo.

Avanywa njani amaxilongo okulunkisa abahlali?

IKoeberg isebenzisa inkqubo kanomathotholo elawula unxibelelwano phakathi kwamaziko olawulo nexilongo ngalinye. Unxibelelwano

luyahlolwa mihla le kwaye nawaphi na amaxilongo anganxibelelani nesikhululo solawulo ayalungiswa ngokukhawuleza kangangoko kunokwenzeka. Kwiveki nganye kuyahlolwa izandisi-sandi zamaxilongo ukuze kubonwe enoba ziyasebenza kusini na. Oku kubizwa ngokuba “luvavanyo oluthuleyo” kwaye alufuni ukuba kude kukhaliswe inkqubo yamaxilongo okulunkisa abahlali. Kufuneka kukhaliswe ngokupheleleyo amaxilongo okulunkisa abahlali kube kanye ngonyaka. Uza kwaziswa kwangaphambili xa kuza kwenziwa olu vavanyo. Uya kuchazelwa xa luqalisa naxa luphela olu vavanyo ngezaziso eziya kwenziwa ngenkqubo yamaxilongo. Ebudeni bolu vavanyo, kubalulekile ukuba uqiniseke ukuba izilwanyana zasekhaya zisendlwini okanye zikwindawo ezingayi kubaleka kuyo. Ukuba nawaphi na amaxilongo awavakali ngendlela afanele avakale ngayo, ngaloo maxilongo kuphela anokuphinda akhaliswe – nalapho uza kwaziswa ngaloo nto. Uvavanyo olupheleleyo lwamaxilongo lubonisiwe kule khalenda, kuquka nemihla anokuthi amaxilongo athile aphinde avanywe ngayo xa kuyimfuneko.

Unokusibeka esweni njani isehlo senyukliya?

Izaziso ezithe rhoqo zamajelo eendaba ziya kwenziwa zize zisasazwe kuwo onke amajelo eendaba afumanekayo. Inkcazelo eqhelekileyo iya kuba kukuncitshiswa komonakalo wesehlo kwisikhululo, amanyathelo okukhusela athathiweyo okanye athathwayo kunye nayo nayiphi na inkcazelo ephathelele ukukhuseleka kwabantu. Amajelo eendaba aya kwaziswa ngokupheleleyo nguEskom naluLawulo Lomngcipheko Wentlekele ngeendawo ezichaphazelekayo.

Kuthetha ntoni ukuvalwa kokutya?

Ukuvalwa kokutya kusebenza kuphela kumafama nakwizivuno ezilinywe ekhaya. Xa kunokwenzeka isehlo esikhulu kwiSitishi Sombane Wenyukliya SaseKoeberg, iSebe Lezolimo liya kukhupha inkcazelo ngamaxesha athile ngokuphathelele ukukhuseleka kokusetyenziswa kweemveliso ezilinywe ekhaya.

Izivuno zakho

- Iimveliso ezingekavunwa kunzima ukuzikhusela, kodwa ukuvuna nokusebenza iimveliso okuqhelekileyo kusenokwenziwa ukuba ixesha liyavuma.
- Iimveliso ezisele zivuniwe ziya kukhuseleka ukuba zigcinwe ngaphakathi.
- Ufanele uyihlambe uze uyihlube imifuno neziqhamo ezivela egadini yakho ngaphambi kokuzisebenzisa ukuba azivunwanga ngaphambi kokubhengezwa kwesihlo esifuna ukuba kuvalwe ukutya.

Nceda ujongek iphepha elisekugqibeleni kule khalenda uze ubone iindawo ekudityanwa kuzo nee mephu. Lintlanganiso ze foramu yenkcazelo ngekota yonyaka. Xa ufuna ukufumana inkcazelo engakumbi ngezi ntlanganiso, nceda uqhagamshelane nolawulo unababandakanye kayo kule nombolo yefowuni

tel. +27 21 550 5758/4238

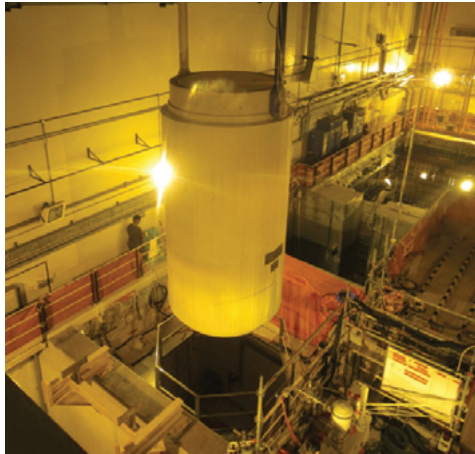


JoshuaD@eskom.co.za





Long Term Operation



January



February



March



April



May



June



July



August



September



October



November



December



January

What is Long Term Operation (LTO)?

Long term operation (LTO) of a nuclear power plant may be defined as operation beyond an established time frame set forth by, for example, licence term, design, standards, licence and/or regulations, which have been justified by a safety assessment, with consideration given to life limiting processes and features of systems, structures and components (SSCs).

Koeberg Nuclear Power Station started commercial operation in 1984 with Unit 1 followed by the completion of Unit 2 in 1985. The two generating Pressurised Water Reactor units were originally designed for a 40-year operational life. The two units will reach 40 years of commercial operation in 2024, and 2025, respectively. Eskom has therefore made a formal application for a variation of the nuclear installation licence for Long Term Operation, with an intention of an additional 20 years of commercial operation which once approved, will see the two units operating safely until 2044.



January 2022

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April 2022

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May 2022

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Moving towards Long Term Operation

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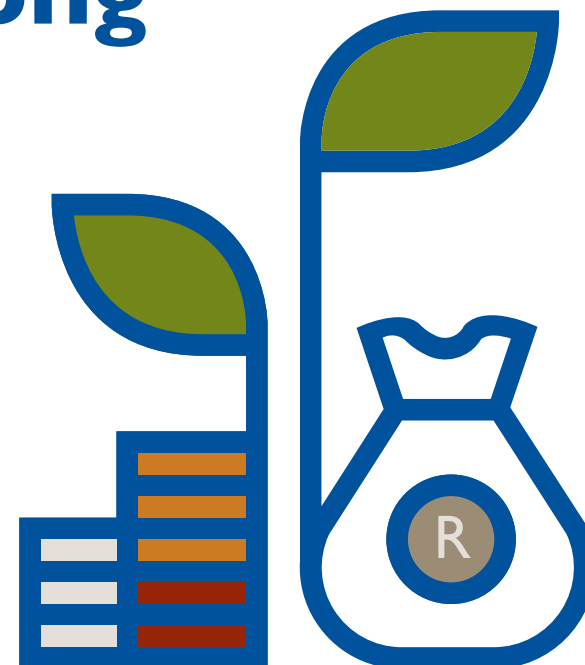
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February

Why is Koeberg embarking on Long Term Operation (LTO)?

Globally, it has become common practice to safely extend the operating licenses of nuclear power plants. As Koeberg Nuclear Power Station is a world class power plant, Eskom has embarked on this initiative in order to continue to ensure security of electricity supply to cater for a growing economy.



Moving towards Long Term Operation

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March

What are the benefits of LTO to the economy and the sustainable supply of electricity to the country?

Consistent with the trends and benefits noted in most global power markets, extending the life of an existing nuclear power plant in South Africa presents the lowest cost option for securing base load electrical generation capacity. Base load electricity is electricity which is available 24 hours a day. Long term operation of Koeberg Nuclear Power Station helps delay the need to fund the construction of new generating infrastructure. Additionally nuclear energy provides greater energy security than other sources of electrical generation capacity. The extension of safe nuclear plant operations provides a cost-effective option, enabling countries to provide stable electrical energy in a manner that helps reduce carbon emissions and provides base load electricity supply to the nation. Further to playing a significant environmental role in their domestic economies, nuclear power plants provide meaningful skilled employment opportunities for local and regional communities.



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Moving towards Long Term Operation

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20	21 Human Rights Day	22	23	24	25	26
27	28	29	30	31  Koeberg Public Safety Information Forum – 19:00. Contact JoshuaD@eskom.co.za		

January 2022

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April

How do we ensure that LTO is implemented safely with no harm to our people and the environment?

Eskom is in the process of performing a comprehensive Periodic Safety Review (PSR), to demonstrate that there are no significant plant design or other operational gaps that would prevent the operation of Koeberg Nuclear Power Station beyond its 40-year original design life. The Periodic Safety Review (PSR) is performed in order to determine the overall safety of the plant and to determine the extent to which the nuclear facility conforms to modern safety standards and operating practices. The conclusion of the Periodic Safety Review must confirm that the plant design, processes and resource provisions are appropriate to meet the regulatory license requirements for plant safety and performance, for all plant conditions during the extended period of operation.

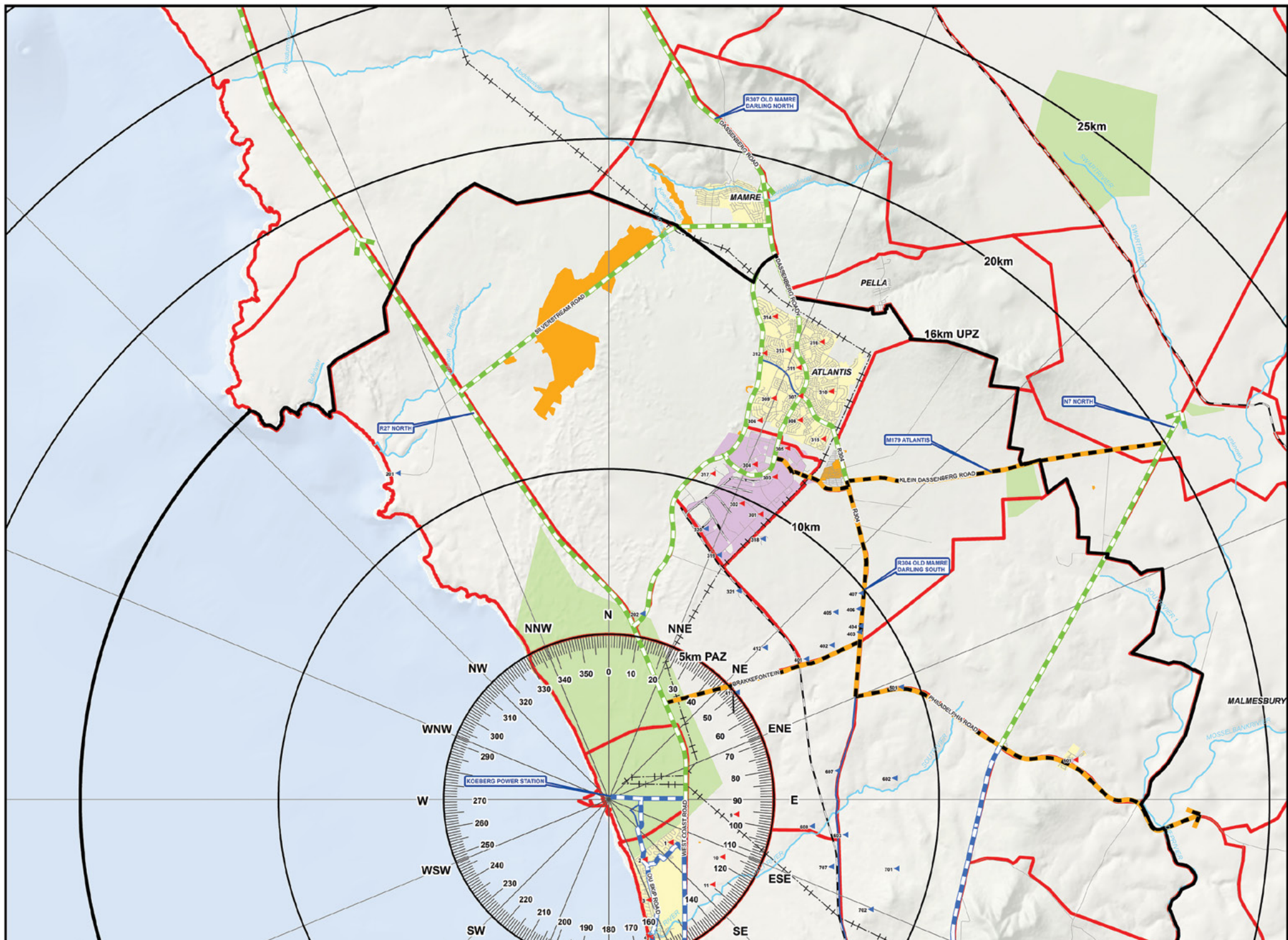


Moving towards Long Term Operation

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THIS MAP WAS COMPILED BY:

DISASTER RISK MANAGEMENT CENTRE- GIS

GOODWOOD

Contact Information: Tel 021 597 5054

Contact Person: Werner Loock

Date: January 2022

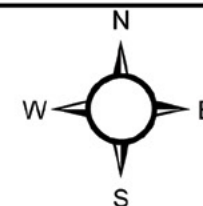


KOEBERG NUCLEAR EMERGENCY MAP - EVACUATION ROUTES



**CITY OF CAPE TOWN
ISIXEKO SASEKAPA
STAD KAAPSTAD**

Making progress possible. Together.



1: 140 000

May

How do we ensure that LTO is implemented safely with no harm to members of the public, our employees, and the environment?

Safety assessments are performed to determine the impact of long term operation on the public, employees and the environment. Nuclear safety is ensured through the As Low As Reasonably Achievable principle and by ensuring that the plant structures, systems and components are maintained in good condition. Eskom has therefore made a formal application for a variation of the nuclear installation licence for Long Term Operation, with an intention of an additional 20 years of commercial operation which once approved, will see the two units operating safely until 2044.



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Moving towards Long Term Operation

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June

How do we ensure that LTO is implemented safely with no harm to our people and environment?

As Eskom is intending to extend the operating life of Koeberg Nuclear Power Station and is progressing with numerous activities including an Ageing Management Assessment Programme to justify the extension of the plant and to the National Nuclear Regulator for evaluation. Ageing management for nuclear facilities is required to ensure the integrity of the asset throughout the nuclear plant's lifecycle. This is especially important when the plant is intending to operate beyond its original design plant life. Many nuclear plants have successfully prolonged their original plant life and in all cases the evaluation, which was required to justify this extension, included an assessment of the ageing of the plant. As nuclear plants are designed for a defined life, and the systems and equipment can be expected to age and possibly degrade over time, an ageing management programme is put in place to remain in control of plant ageing. The primary objectives of an ageing management programme is to establish knowledge of the ageing of equipment, implement actions that manage and monitor ageing effects, and demonstrate that the effects of plant ageing will be adequately managed to ensure that the asset is in a fit-for-service condition while putting in place the necessary modifications for justification of plant life extension.



Moving towards Long Term Operation

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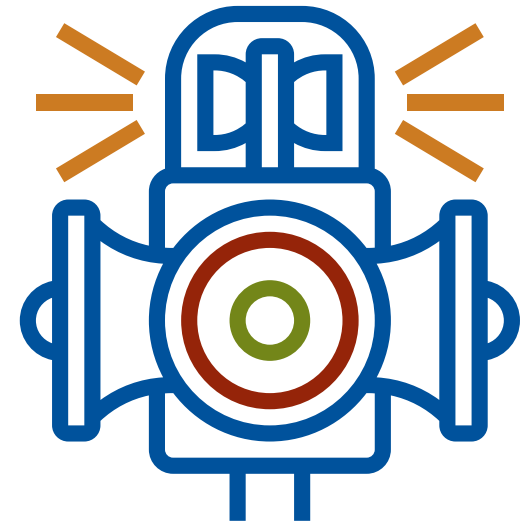
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How does LTO impact the Integrated Koeberg Nuclear Emergency Plan

As part of the preparation for LTO, the Integrated Koeberg Nuclear Emergency Plan basis is being reviewed and the current emergency preparedness and response arrangements are being assessed against international standards. Amendments to the emergency plan will be made where necessary.



Moving towards Long Term Operation

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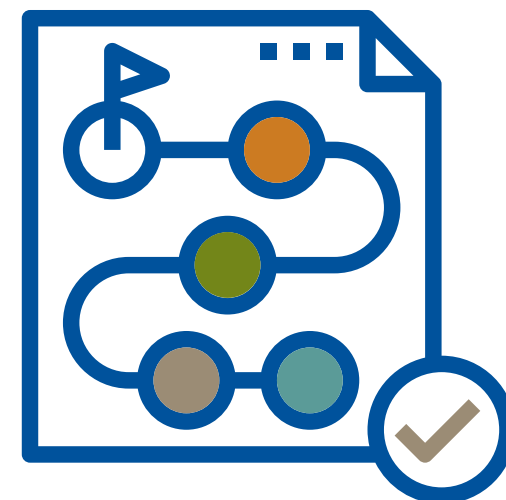
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August

Where are we in the process of LTO approval/what milestones have we achieved?

Eskom is currently in the process of completing the large component replacements which support the justification for long term operation (LTO). Thus far big milestones such as the replacement of the Reactor Cavity and Spent Fuel Cooling System tanks also referred to as the PTR tanks have been successfully implemented. Additional spent fuel storage casks have also been procured and are being filled as required to cater for continued safe storage of used fuel. The next major components to be replaced, are the six steam generators (three per unit) as well as the Reactor Pressure Vessel Head and Control Rod Drive Mechanism (CRDMs) of Unit 2. Note that the Unit 1 Reactor Pressure Vessel Head was replaced in 2007.



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Moving towards Long Term Operation

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September

Who are our stakeholders?

As can be expected a number of local and international stakeholders play a role in the operation of a nuclear power station. This includes oversight bodies, suppliers, employees, contractors, and very importantly, you, as a member of the public. Stakeholders are engaged via various platforms to keep them abreast of developments at the power station, including long term operation. You are invited to register for and attend the Koeberg Public Safety Information Forum (PSIF), which is held quarterly. For more information, kindly email JoshuaD@eskom.co.za.



Moving towards Long Term Operation

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Koeberg Public
 Safety Information
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JoshuaD@eskom.co.za

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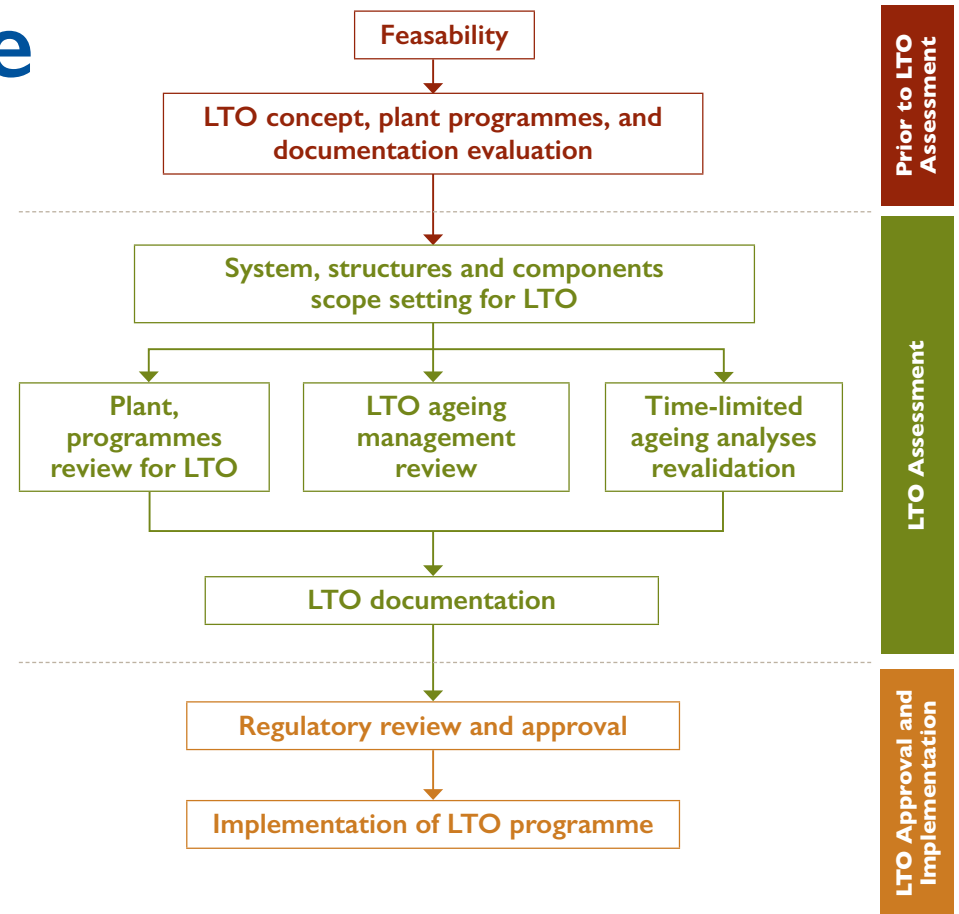
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October

What is the approval process for LTO?



Moving towards Long Term Operation

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November

SALTO Peer Review Mission

The Safety Aspects of Long Term Operation (SALTO) Peer Review is a comprehensive safety review directly addressing strategy and key elements for the safe long term operation of nuclear power plants. The evaluation of safety programmes and performance is made on the basis of the International Atomic Energy Agency (IAEA) Safety Standards and other guidance documents, with the aim of benchmarking the Koeberg operations and preparedness for long term operations against these. The Pre-SALTO and SALTO missions normally run for eight to nine days. A typical SALTO review mission team includes external experts (usually senior experts from peer organisations) with one or two IAEA staff members as team leaders, and observers from peer organisations.



Moving towards Long Term Operation

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December

Large projects to ensure the continued safe operation of the power station

January 2022

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March 2022

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April 2022

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May 2022

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June 2022

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Loading of spent fuel casks.



The storage facility housing the replacement steam generators.



Reactor Cavity and Spent Fuel Pool Cooling System tank



Arrival of the Reactor Pressure Vessel Head and Control Rod Drive Mechanisms at Koeberg.



The arrival of one of the six replacement steam generators.



Moving towards Long Term Operation

Notes

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July 2022

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				1  Koeberg Public Safety Information Forum – 19:00. Contact JoshuaD@eskom.co.za	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16 Day of Reconciliation	17
18	19	20	21	22	23	24
25 Christmas Day	26 Day of Goodwill	27	28	29	30	31