

Public Safety Information Forum held at the Koeberg Nuclear Power Station Nuclear Auditorium, Bulk Stores on 28 June 2012

Chairperson: Vacant

Deputy Chairperson: Ms Smokie La Grange

ATTENDEES

Ms S La Grange (Deputy Chairperson)
Mr Iosiphakis
Mr La Grange
Mr N Lee
Mr and Ms Mayhew
Mr J Pereira
Mr and Ms Williamson Ms R Adair Ms G Adair
Mr D Lingard Mr and Ms Maigrot Mr J A Slabbert
Mr J Taylor
Mr J De Araujo
Mr A Orfanos
Mr BSJ Wilson
Mr P Siyo
Mr J Pereira
Mr Longdon- Thurgood
Mr J Fassmann
Mr J Mira

OFFICIALS

Ms D Joshua (*Senior Advisor Stakeholder Management - Eskom*)
Ms P Henkeman (*Communication Officer – Visitors Centre*)
Ms V Majola (*Senior Inspector – NNR Koeberg Site Office*)
Mr K Featherstone (*Acting General Manager Nuclear Support - Eskom*)
Mr K Engel (*Plant Manager – Eskom*)
Mr J Dyabaza (*Senior Advisor Stakeholder Management – Eskom*)
Mr D Nicholls (*General Manager – Nuclear Engineering*) Mr LK Ndube (*Chief Engineer – Eskom*)
Mr M Saaymans (*Manager Emergency Management – Eskom*)
Dr E Steyn (*Head of Special Planning and Critical Infrastructure – CoCT*)
Mr C Forsyth (*Snr Technologist Engineer – Eskom*)
Mr P Thauge (*Engineer – Eskom*) Page | 2

1. Welcome

The Deputy Chairperson welcomed everyone to the PSIF meeting.

2. Apologies:

The following apologies were tendered:

- Ms A Lee
- Counsellor Marissa Janse van Vuuren
- Mr Greg Pillay
- Mr Steven van Rensburg
- Mr L Phidza
- Ms Carin de Villiers
- Dr Tim Hill
- Mr G Moonsamy
- Mr S Van Rensburg

3. Acceptance of the Minutes of the meeting

Minutes was accepted by Mr Lee and seconded by Mr Mayhew.

4. Matters arising from the previous meeting

Question by Mr Williamson

I would like to enquire about the situation with the Chairperson?

Response by the Deputy Chair

I was informed that the Chair, Mr Clarence Mentor tendered his resignation via sms and instructed Mr Dyabaza not to make contact with him again. Further information and feedback was due by the NNR tonight. However, I was just informed that Mr Gino Moonsamy was involved in a motor vehicle accident and as a result will be out of action for a while. The matter will be left in the hands of the NNR and perhaps a representative can be asked to provide feedback on his behalf. However, the full advertising process will have to be followed all over again.

The Deputy Chair enquired whether any of the members want to stand as Chair in the meantime.

No responses were received. She then volunteered to take the place of Chair and enquired whether anyone wants to avail themselves as deputy chair.

No responses were received.

Comment by Mr Featherstone

It is stated in our Constitution (which is a topic on the Agenda) which we've put in as part of our Terms of Reference for this meeting, even though it's not as per the regulations of the NNR, we are allowed to continue with the meeting, even without a formally appointed chairperson. So if we accept the Constitution and agree with the Terms of Reference, it will allow us to continue without a formally appointed chairperson.

5. Koeberg Performance feedback by Mr Kevin Engel Plant Manager – Koeberg Operating Unit

The following question were posed during the presentation made by Mr Kevin Engel

Question by Mr Isophakus

[The Koeberg Outage Plant reliability target is 90 days]. Plant reliability, 90 days? And you said you're running for 30 days, just explain that please.

Answer by Mr Engel

Once we've put the unit online and it is producing maximum power, we expect there should not be any shutdowns for 90 days. If there are, we consider the outage to have been unsuccessful. Currently the unit has only been operating for 30 days and counting.

Question by Mr Isophakus

Have you done work on the transformers?

Answer by Mr Engel

We've replaced all six (6) main transformers. The only transformers we still have are the station transformers which at the moment don't need replacement.

Question by Mr Longdon-Thurgood

What typical scenario merits you to do the very sensitive stator rewind? What is the general reason why it arises?

Answer by Mr Featherstone

The reason we rewind this machine is due to aging, which is the same reason why we've replaced the big transformers. Electrically, this machine has aged and we could not guarantee its reliability between the next two cycles, therefore we needed to rewind it.

Question by Mr Longdon-Thurgood Is this the sort of thing that could happen between windings?

Answer by Mr Featherstone

This machine has a problem with the insulation. It is water cooled and the way it was brazed originally during construction, has resulted in a degradation mechanism where the insulation gets wet. We measure this degradation over time and when it reaches a certain point it is time to replace.

Question by Mr Joachim Fassmann

How many of these generators have you got?

Response by Mr Engel

Two.

Question by Mr Joachim Fassmann

Only two? So there's no such thing as a standby just in case?

Answer by Mr Engel

These are very expensive components and not feasible as it does not make business sense. These are the biggest turbines and generators in South Africa.

Question by Mr Fassman

A complete generator sitting there waiting for the valve of the steam to be turned on would surely still be a good idea?

Response by Mr Nicholls

In Eskom we don't build power stations with spare turbines and generators because it is not economically viable. There are some countries and stations that have more than one turbine per reactor, there are not many of them though. But even those have two 50% units, so they run them both all the time. The Eskom view is we have 120 machines on the system of which some of those are in maintenance all the time, although Koeberg has the largest machines and the only major machines in the Cape. The fact is if we lose some of the 120 machines, we normally got in real terms, one or two in long term recovery. So from a grid point of view we don't have spare machines at Koeberg.

Question by Mr Longdon-Thurgood

Just to clarify, what do the 2000 activities refer to on the slide?

Answer by Mr Engel The 2000 refers to the 2000 operating activities that are required to shut the plant down and to restart the plant. The maintenance activities are around 18 000.

Question by Mr Mayhew

What is EdF? **Answer by Mr Forsyth** EdF is the equivalent of Eskom in France called *Electricité de France*.

Question by Mr Williamson

Why is it taking us 30 years to decide to follow the EdF approach?

Answer by Mr Forsyth

We've had different strategies at different times based on the needs of Eskom. We've benchmarked various strategies over time but recently we've decided to utilise this strategy.

Question by a PSIF member

When is the Outage in September.

Answer by Mr Engel

It starts on 17 September (2012).

6. Emergency Planning Report on the 2011, 7-week Emergency Planning Exercise Cycle (Oct-Dec 2011) by Mr Martin Saaymans – Emergency Management Manager

Objective and purpose of the exercises:

- To test the effectiveness of the Emergency Plan;
- Ensure that the internal Emergency response staff are re-qualified and authorised;
- To identify areas for improvement and implement before next cycle;

Question by Mr Mayhew

During an exercise the officials are there waiting for the people to arrive in the bus so they can be decontaminated, but in a real emergency where are these people coming from to do the decontamination?

Response by Mr Saaymans

The army is situated in Silver Mine, so depending on the Mass Care Centre that we use that will determine the time it takes them. This one that I've indicated was situated in Parow. I estimate it took them less than an hour to arrive. What was very impressive was how quickly it took them to assemble these things. During the exercise it took them about twenty minutes to assemble the whole set-up. There are also other role players involved, such as the Department of Housing, trauma counselling, medical support as well as the registration of individuals that come in, so it involves multi-disciplinary teams coming from all over the city bowl. If, on the day there is a delay, there will be time for them to get there as evacuation does not happen that quickly, so it will give them time to set up before the first arrivals. If there are first arrivals before they [officials] arrive, the first arrivals would have to be managed up to the point that they can be frisked.

Question by Mr Mayhew

What if they can't get there, because of delays due to the roads being congested as a result of traffic.

Response by Mr Saaymans

They do have emergency vehicles with emergency sirens to ensure they get right of way.

Question by Mr Williamson

The officials handling the frisking as per the pictures displayed, are there any reasons why they are not using protection on their hands?

Response by Mr Saaymans

They will not be contaminated; they will be wearing protective clothing to protect themselves from being contaminated. As long as they don't touch anything contaminated with their hands, they don't need protection.

Question by Mr Williamson

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7. The Constitution of the Public Safety Information Forum (PSIF) by Mr Keith Featherstone:

Comment by Mr Featherstone Based on the comments received and the comments from the floor the following changes to the document were proposed for acceptance the PSIF members:

Changes

The following are the changes proposed by Eskom:

Section 4 (page 5, last paragraph), talking about the purpose of the meeting;

We are proposing to add the following words to the end of that sentence

Even though the main focus of the PSIF is on nuclear safety and radiation safety, it can also be used as a forum to promote good radiological safety, occupational safety, environmental safety, and security consciousness, applying the same principles **to other issues related to Koeberg.**

The reason for the proposed change is that the regulation is quite clear that this forum is to be established to talk about safety and Emergency Planning. We believe it's an opportunity for us to talk about anything pertaining to Koeberg which the public is interested in as it's important to educate the public about the Koeberg facility.

This in conjunction with the next change will clarify why we are proposing the two changes;

There is a slight conflict of the wording in 5.2 under The duties of a Chairperson The Chairperson is responsible for controlling the meeting and ensuring that **only** issues which are relevant to **the safe operation of Koeberg** are discussed in the meeting ...

To tie in with the previous change we propose to take out "only" and taking "the safe operation"... anything associated with Koeberg we can talk about which just ties the two points together.

The following change we propose to remove the words ***(like a judge in court)*** under 5.2 Chairperson/Deputy Chair responsibilities as it does not add any value to the sentence as this is not a court of law.

The Chairperson has a responsibility to remain impartial ***(like a judge in a court)***,

- **Grammatical error corrected**
The Chairperson is responsible for ensuring all parties abide by the constitution, **and asking** offenders to leave if necessary.
- **Duplication in the sentence not needed, proposing taking the sentence out.**
This will then ensure that the public living in the vicinity of a nuclear power station are better informed.
~~This is to ensure that the public living in the vicinity of Koeberg Power Station are better informed.~~
- **Spelling error corrected**
Meeting dates are typically agreed a year in advance as Eskom publish them in the Emergency **Calendar.**

- **7.2 that deals with a quorum – proposed to add an addition to clarify and define who constitutes a quorum**

A quorum consists of at least a Chairperson, and a minimum of at least 4 other members of the public, but excluding MO (Meeting officials) & OR (Organisation Representatives), ~~and~~ Eskom employees **and the general public.**

“Members of the Public” mean members of the public living in the relevant municipal area but excluding employees of the holder of the relevant Nuclear Installation Licence.

“General Public” mean members of the public living outside the relevant municipal area i.e. outside of the 16 km radius from Koeberg.

Another important point, in the section of chairperson and attendance

7.3 If the position of the Chairperson/ Deputy Chairperson is vacant, **or** for any reason they are unable to attend a scheduled meeting, the forum may be chaired by any other registered forum member nominated by the members attending the meeting.

Adding the word **“or”** was to cover both of the following:

- 1) If neither position is filled officially by the NNR
- 2) If neither of the officially appointed persons can attend

Comment by Mr Williamson

I would like to suggest that the formatting be relooked at when making the changes.

Response by Mr Featherstone

During the final editing there is likely to be format or numbering changes but there won't be any content changes.

Comment by the Deputy Chairperson

Can I please have someone to propose and second the acceptance of the Constitution as proposed?

The acceptance of the Constitution was proposed by Mr Mayhew and seconded by Mr Lee.

The Deputy Chairperson thanked everyone who participated in developing the Constitution which at long last can now be considered approved by the PSIF members.

8. General

Comment by Mr Mayhew

I want to express my disappointment. We were promised by CoCt at the last meeting that we will talk about the Evacuation Plan at this meeting. Sadly, when I look at the Agenda that topic it is not reflected. At the moment, we've heard nothing from the City of Cape Town. I know it's a challenge and a hard job to evaluate and get it right but we were promised at the last meeting that they will be here at this meeting.

Response by Dr Elmien Steyn from CoCt Disaster Risk Management Centre

As indicated earlier, apologies for Mr Greg Pillay, the Head of the Centre who couldn't be here tonight. Pertaining to the Traffic Evacuation Model, we are still busy with it. Currently we are tabling it with our colleagues in the Planning and Transport units as well as circulating it internally to the City of Cape Town for comments to ensure that it is 100% acceptable. So that's the current status. Unfortunately it is not ready for discussion at this meeting but hopefully it will be ready at the next meeting for discussion.

Question by the Deputy Chair Will we have someone here from the City of Cape Town at our next meeting and can we put you the Agenda for this?

Response by Dr Steyn

We will have somebody, preferably from the Planning Unit. If we don't pick up any internal problems, there will be someone doing the presentation.

Question by Mr Mayhew

I have another question, the NNR are the interested party regarding safety and what goes on at Koeberg and they must be interested in the Evacuation Plan. I can't talk to anybody, but I do feel a deadly silence from them, they haven't said a word about the Evacuation Plan. What is their involvement with the City of Cape Town Evacuation Plan?

Response by the Deputy Chairperson

We do have a representative here from the NNR, I don't know if this particular person can discuss this issue, but we certainly can ask the question of the NNR to provide us with feedback at our next meeting.

Question by Mr Williamson

Do we assume that there is or there isn't a plan?

Comment by Mr Featherstone

Mr Martin Saaymans did try and clarify this point at the last meeting; we must not get confused with the Traffic Model and the Evacuation Plan. What we've asked the City to present is the Traffic Model. The Traffic Model is just a way to demonstrate that the Evacuation Plan can be implemented within the required evacuation time frames as stipulated by the Regulator.

Comment by Mr Mayhew

I might have not worded it quite right, but let's be fair, we're still waiting for it.

Response by Mr Featherstone

What you're waiting for is the results of the Model not the Plan. The biggest issue is that there have been new developments and the model need to be reflective of the current situation and the City are struggling with some of those updates which they have to get through Eskom and the Regulator before they can present it to the public.

Comment by Mr Mayhew

I hear where you're coming from, but let's be fair, this has been coming on for months.

Response by Mr Featherstone

I believe I do need to come to the defence of the Regulator. We, as Eskom, have written very stern letters to the City of Cape Town regarding the Model and the Regulator appears to be supportive of our approach. In the working groups which involve the City of Cape Town, Eskom, Province and all the affected people around the model, everyone understands the Eskom stance and were pushing just as hard as you are because we want to see the Model as well, because it's our Emergency Plan.

Comment by Mr Mayhew

No one is telling has told us that and none of that has come into any of these meetings.

Response by Mr Featherstone

I'm just telling you this as background; I am not talking on behalf of the NNR or the City of Cape Town. I just wanted to make sure that there is clarity between the Model and the Evacuation Plan and that the two are not confused. They are two totally different things. The Plan exists and the Model exists, but some of the assumption is that the Model has changed and need to be accepted by all parties. We are waiting for this to be finalised.

Question by Mr Fassman

I would be very interested in a discussion on Fukushima with regards to what went wrong, what lessons have been learnt and what has been changed here at Koeberg with regards the lessons learnt.

Response by the Deputy Chair

You have missed it as we have been receiving regular feedback and updates from Mr Dave Nicholls on Fukushima and the lessons learnt and what Eskom Koeberg have put into place, but I can put it on the next meeting's Agenda as it would be interesting to see where we are.

Response by Mr Williamson

I would suggest that you provide Mr Fassman with prior minutes where it was discussed as we've been through quite a few times.

Response by the Deputy Chair

I think that's a very good suggestion.

Question by the Deputy Chairperson

Is there more valid information we can give or that you can present at the next meeting, Mr Nicholls?

Response by Mr Nicholls

I can present a status update at the next meeting although not much has changed dramatically.

Comment by Mr Fassman

I would think prior copies of the minutes would suffice for the moment.

Comment by the Deputy Chair

Does anyone else want the Fukushima Update for the next meeting?

Response by Mr Nicholls

Having the NNR view on where we stand will be much better than we telling you where we stand because we clearly believe we're doing the right thing.

Proposed topics for the next PSIF:

Presentation by the City of Cape Town Planning Department on the Traffic Model with comments by the NNR on the topic;

Short update on Fukushima (preferably by the NNR);

The Deputy Chairperson announced the availability of the following document issued by the NNR - *National Nuclear Regulator SA media briefing on measures taken to strengthen our safety regime at Nuclear Power Plant operations post Fukushima Daiichi nuclear accident* Copies of the document can be collected from Mr Jongi Dyabaza on the way out.

Comment by Mr Longdon Thurgood

I was trying to download the document from the NNR website on which they've based the press briefing on, but I couldn't find it. I'm looking for the actual document not the press document and I cannot find it. The second point is I've sent an email to the NNR to ask about this to the email address on their website enquiry@nnr.co.za but when I sent something through it is always rejected and cannot be delivered. Is the website up to date?

Comment by the Deputy Chair

We have a representative from the NNR. Ms Majola would you like to answer that?

Response by the Ms Majola (NNR)

The NNR is busy reorganisation and currently we don't have somebody to update it. Very soon we will produce a new updated website.

Response by Deputy Chair

Mr Longdon Thurgood, I would suggest that you take it up directly with the NNR representative who is here to give you a specific email address where you can contact her, as we are Koeberg specific.

9. Date of the next meeting

The Deputy Chair thanked everyone for their time, attendance and patience and closed the meeting. The next meeting will be on **Thursday, 27 September 2012 at 19:00**. Venue to be confirmed.