

Venue: MS TeamsTime: 19:00 to 20:41Chairperson: Mr Mareme MathosaDeputy Chairperson: Mr Joel Mphahla

REGISTRATION (■ = PRESENT; A = Apology)

REGISTRATION (■ = PRESENT; A	. 5,3	DATE - 2022/23				
NAME AND SURNAME	ORGANISATION	09/06/22 Virtual	11/08/22 Virtual			
Akortia, Cheryl	Necsa	•	A			
Basson, Davie	Necsa		Α			
Bentley, Rob	Resident	_	,		1	
Bob	Resident	_				
Boyede, Qhamkile	Necsa					
Brent, Steve	Resident					
Crothall, Sue	nesident	_	Α			
Dlungwana, Thabani	Necsa					
Du Plessis, Andri	NTP	_				
Du Preez, Frikkie	Necsa					
Hausleitner, Heinrich	Resident	_				
Hawadi, Precious	Necsa	_				
Ismail, Zahir	Necsa		_			
Kekana, Mologadi	Necsa					
Kgapane, Puni	Necsa	_				
Kunene, Noxolo	Necsa					
Lekwe, Gilbert	Necsa					
Malatsi, Thabiso	Resident				+	
Mashabathakga, Clemmy	Resident					
Mathosa, Mareme	Chairperson	 				
Mogotlhong, Leonard	Necsa	_				
Mondi, Monde	Necsa	_	-			
Moonsamy, Gino	NNR	_				
Morathi, Patrick	Resident					
Mosoetsa, Christine	Necsa					
Motsumi, Teboho	DMRE	 	-			
Mphahla Joel	Deputy Chairperson	 	Α			
Mthombeni, Ntombi	Necsa	 				
Myoli, Ayanda	Necsa		-			
Natha, Umesh	Pelchem	_	A			
Ngwenya, Jabu	Resident	_				
Pather, Thiagan	NNR	_				
Pete, Ashy	DMRE		-			
Phahlamohlaka, Teuns	Resident	_				
Rampersadh, Pradish	Necsa					
Raphotle, Blessed	Necsa					
Rathebe, Bob	Madibeng					
Rennie-Kroon, Amelia	Necsa	_				
Rikhotso, Nto	Necsa	_				
Roon-Joubert, Maya	Resident	_				
Santswere, Gaopalelwe	Necsa					
Schutte, Pieter	Pelchem					
Shabangu, Andries	Pelchem					
Singh, Avinash	NTP					
Smith, Rodney	Resident	_				
Steynberg, Coert	Resident		_ _		+	+



Steyn, Isabel	Necsa	А	Α		
Tengimfene, Nikelwa	Necsa				
Tselane, Thabo	NTP				
Tyabashe, Loyiso	Necsa GCEO				
Van Heerden, Eurika	Necsa				
Venter, Karen			Α		
Vlok, Wouter	Necsa				
Wentzel, Veronica	PSIF Secretariat				

ABBREVIATION	DESCRIPTION
(G)CEO	(Group) Chief Executive Officer
D&D	Decommission and Decontamination
DMRE	Department of Mineral Resources and Energy
DSI	Department of Science and Innovation
ECC	Emergency Control Centre
EIA	Environmental Impact Assessment
IAEA	International Atomic Energy Agency
IRP	Integrated Resource Plan
JOC	Joint Operations Centre
JPC	Joint Planning Committee
Mo-99	Molybdenum-99
MoU	Memorandum of Understanding
MPR	Multi-Purpose Reactor
Necsa	South African Nuclear Energy Corporation SOC Limited
NERSA	National Energy Regulator of South Africa
NGO	Non-government Organisation
NLA	Necsa Learning Academy
NNR	National Nuclear Regulator
NPO	Non-profit Organisation
NRWDI	National Radiation Waste Disposal Institute
PSIF	Public Safety Information Forum
SAFARI-1	South African Fundamental Atomic Research Installation
SAPS	South African Police Service
SDR	Special drawing rate
SHEQ	Safety Health Environment and Quality
ToR	Terms of Reference

TERM	CLARIFICATION / DEFINITION
Accident	An unintended event, including operating errors, equipment failures or other mishaps.
Disaster	A continuous and integrated multi-sectorial, multi-disciplinary process of planning and implementation
Management	of measures aimed at:
	a) Preventing or reducing the risk of disaster
	b) Limiting the severity or consequences of disasters
	c) Emergency preparedness
	d) Responding rapidly and effectively to disaster; and
	e) Post-disaster recovery and rehabilitation
Emergency	An event that requires taking prompt action, or the special regulation of persons or property, to limit
	the risk to people's health, safety or welfare, or to limit damage to property or the environment.
Emergency Plan	A document describing the organisational structures, its roles and responsibilities, concept of
	operation, means and principles for intervention during an emergency.
Evacuation	The rapid, temporary removal of people from the area to avoid or reduce short-term radiation
	exposure in the event of an emergency.
mSv	The millisievert (mSv) is a measure of the absorption of ionising radiation by the human body.



Public Notification	Notification to the public of an emergency and appropriate protective actions to be taken using the installed siren and loudspeaker system, local authorities, and Jacaranda FM and Motsweding.
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.

1. WELCOME AND OPENING

No.	Minute	Responsible
	Mr M Mathosa welcomed all present.	M Mathosa

2. SAFETY MINUTE

No.	Minute	Responsible
	Ms M Kekana did the safety minute, highlighting the cause of many incidents taking place because of	M Kekana
	doing tasks the easy way instead of the right way. Taking the easy route leaves you and your family at	
	risk, especially potential financial burdens because of injuries, and possible incapacitation where you	
	are not able to take care of your family. The easy way is not always the right way. Sometimes shortcuts	
	will cut you short.	

3. CONFIRMATION OF AGENDA

No.	Minute	Responsible
	Mr T Malatsi requested to add an item to the Agenda under 7. General: 7.1 Issue of Meetings.	M Mathosa

4. MINUTES OF THE PREVIOUS MEETING

No.	Minute	Responsible
	No corrections were required on the minutes.	
	Mr T Malatsi moved for adoption of the minutes, and were seconded by Mr L Tyabashe.	

5. MATTERS ARISING FROM PREVIOUS MEETING

No.	Minute	Responsible
No. 5.1	PSIF Constitution Mr M Mathosa referred to 6.2 PSIF Constitution listed under Matters Arising from previous minutes; where Mr T Malatsi mentioned that he was from Atteridgeville and could not apply for the Chairperson or Deputy Chairperson position due to the 5km radius restrictions. Mr M Mathosa informed that he revisited the advertisement and it only mentioned the municipal areas and not the highest kilometer radius. As mentioned in the Constitution, the issue of the radius was resolved. Mr T Malatsi requested a day to engage with Necsa on the Constitution as he felt that there were some issues that had to be discussed and also add some additional points within the Constitution. Ms N Tengimfene informed that the Terms of Reference in draft format was circulated for comments, and it was integrated and sent to the NNR where Necsa received feedback. The new Chairperson was elected in the last meeting and the next step would be for him to sign it off. It will be circulated. It	Responsible
	would be important that there was something on paper that was canvassed and if any amendments were to be done, they would be done on an existing and adopted document. Mr T Malatsi made comments and submitted via e-mail to Ms V Wentzel regarding the Constitution; he did not receive the new adopted or approved Constitution from Necsa or the NNR as he made the comments regarding the issue of the five kilometer radius and another point. He requested that it be distributed to check if their comments were considered into the new constitution.	



MATTERS ARISING FROM PREVIOUS MEETING (CONTINUED)

that the five kilometer radius was what the current licensing regulation indicated. And that was at that point about to be publicised for public comments in terms of amendments. The current five kilometer radius was what was governing this meeting subject to the changes in terms of the regulations. The Constitution would be circulated.	entzel
Mr T Pather wanted to put this issue to bed as the jurisdiction issue was discussed during the last meeting and it was highlighted that for this forum there were previously, with the approval of the Necsa CEO's, agreed that we would work with members beyond the five kilometer radius. The current GCEO was happy to extend the forum to meet the request from the community. Mr T Pather further commented in respect to the Constitution as indicated, there were proposals for changes and the NNR indicated that the forum needed to conclude on the Constitution before it went back to the NNR for acceptance. The NNR would be looking from a legal perspective, but so far they did not notice any serious issues. He suggested the Constitution as an Agenda point and take time to discuss and take further comments from the community to have agreement from the public and complete the Constitution. This was a public forum, the Constitution needed to meet the needs of the public. Mr M Mathosa requested to have the document recirculated for a final time so that members could check if their comments were added. This exercise would make it more conducive in terms of the next discussion on it as opposed to just adding it to the current meeting.	

6. NECSA GROUP UPDATE & NECSA PUBLIC SAFETY FEEDBACK

(Presented by Mr L Tyabashe GCEO of Necsa, Mr A Myoli, Mr T Tselane GMD of NTP, Mr U Natha MD of Pelchem, and Ms Q Boyede GE Strategy and Enablement)

No.	Minute	Responsible
	Mr P Schutte represented Pelchem as Mr U Natha had a bereavement in the family.	
6.1	All questions were posted on the MS Teams Meeting Chat regarding the Necsa presentation.	
	1) Question by Ms M Roon-Joubert: Have you a design or drawing of plan available where the Safari reactor is being build. Showing the fuel and waste pipelines?	
6.2	Answer 1: Mr L Tyabashe informed that it was one of the key projects where Necsa would start giving feedback on in terms of where we were at. As stated the current SAFARI-1 has been operating since 1965 and was nearing the end of its life, but was still safe and Necsa intended building another reactor, yet at that point in time, Necsa did not have any drawings or plans. Necsa would be going through a process of environmental authorization of the site within the Necsa site, Necsa would start providing updates in time, just like with the Thabana Pipe Store. Mr L Tyabashe felt it was important for members of the public that when they hear about an EIA, for example starting and there was a public meeting on the EIA for the Multiple Purpose Reactor people should understand that Necsa are well informed and the public understand what it's all about. Affirmative to the question there was a project currently in the pipeline to replace the SAFARI-1 reactor.	
	2) Questions by Mr Teuns Phahlamohlaka: Questions as follows: 1. The GCEO on his management team. Is the team Employment Equity compliant? Are they on contract or permanent positions? What new strategic changes has the office of the GCEO effected thus far? 2. The REACTOR that is 57 years old, what is its life span and maintenance plan, is it not replaceable? 3. On the Nuclear medication; is this available to local patients who have prescriptions from doctors or not? 4. On Emergency: What is the measure for success of the emergency exercise? Please elaborate on international limit. What would be burnt on 10 Aug?	



NECSA GROUP UPDATE & NECSA PUBLIC SAFETY FEEDBACK (continued)

No.	Minute	Responsible
6.2	Answer 2:	
	Mr L Tyabashe replied as follows:	
	1. The management team that was shown during the presentation indicated that of the 11 positions shown. There were five ladies in the executive lead, and that was compliant with the EE ascensions. Eight divisions were on five year contracts plus the executive in his office. Two divisions, the Company Secretary and Integrated Assurance were on a permanent basis. We saw Necsa on a slipping slide towards a huge unprofitable margin in this financial year end figures. The current ongoing audit that was to be finalized by the end of August was still demonstrating a loss, but it was a far reduced loss than Necsa had in the last year. Which meant that Necsa was turning around in terms of profitability.	
	Necsa have realigned the operation so that we reduce the duplication of functions that were seen within the site because parts of the organisation tended to go on their own, duplicating some functions, Necsa realigned those and there were no more duplication. Necsa decided to fully centralise parts of certain functions. Some functions that were center led, which meant there would be a service that was controlled from the center but assigned for specific missions to the different parts of the organisation.	
	In terms of the audit that was currently underway, Necsa actually reduced the number of audit findings from the financial year 2020, which were about 163 items. The previous financial year 2021, there were about 60 and this financial year there were less than 20. There was an improvement also in terms of audit findings. Strategically Necsa was also looking at the projects that could grow our business and the Thabana Pipe Store, the Multi-Purpose Reactor and some other projects even in the NTP and Pelchem space that Necsa was focusing on to move forward. There was a lot that could be talked about in terms of the strategic direction and the change that Necsa was taking.	
	2. Mr L Tyabashe already discussed the matter. Currently there was no specific end date for the license of Safari, but suffice to say any component that was designed, was designed with a specific assumed lifespan and it could be extended. Necsa would attempt the continuous safe operations mode and look at things that needed to be replaced to make sure that we continue to operate and we continue to be safe.	
	3. Mr T Tselane confirmed that it was available both in the public and in private hospitals, and medical practices, case in point at Sefako Makgato and Steve Biko Academic Hospitals were the available for such treatment and diagnosis. But there should be proper diagnosis that should be undertaken so that the relevant medical practitioners and clinicians should be able to do what we call targeted therapy, with surgical precision. Those were the steps that needed to be taken, and there should be proper consultation.	
	Mr L Tyabashe emphasised that the question was very important in that predominantly our market was international on nuclear medicine. The new strategy is to grow the South African market and to make sure that there are more of these hospitals to treat and diagnose cancer, have this medication available and also make sure that it followed the prescribed medical protocols. Necsa is moving forward and increasing the footprint in the country and into the continent.	
	4. Ms Q Boyede informed that Necsa's emergency exercises were blended as was displayed on the schedule presented. In the plan Necsa would then identify the aspects that needed to be evaluated pertaining to certain functionaries. They would use an evaluation sheet with metrics looking into those areas, running on a scale of one to five, one being poor and five being excellent. If an area scored more than four it was good, but it was technicalities in terms of what sort of an exercise was done.	



NECSA GROUP UPDATE & NECSA PUBLIC SAFETY FEEDBACK (continued)

No.	Minute	Responsible
	Mr L Tyabashe added that on the measures of success, there were many aspects on that matrix, some	.100001131010
	of them were response time, some of it was the scenario evolution - did we go the right direction to	
	understand what could be done if for example they assumed wind direction is going from X to Y, did	
	you evacuate in the right direction so that was a very comprehensive matrix in terms of measuring its	
	success.	
	Ms Q Boyede elaborated on the international limits that it was just to show benchmarks that Necsa	
	had when we looked at public dose in an environment, what you could release. However, our focus	
	and NNR being present, we looked at what the NNR has given us and in that number you could see we	
	had 0.25 millisieverts. If we had to look at the chat we were still far from it, for April to June of the	
	quarter, we released 0.3%, less than half a percent. Looking cumulatively from January to June, it was	
	about 0.7%, less than one percent of the limit that we were given by the NNR, which was even less	
	than the international limit. For Necsa it was just to extrapolate to say these were the benchmarks and we were far from those limits, and even far from the internal constraints that Necsa set for ourselves.	
	we were far from those limits, and even far from the internal constraints that reesa set for ourselves.	
	Mr L Tyabashe stated that while the IAEA norm figure was 1 millisievert, our regulator were stricter	
	with a limit of a quarter of that. Necsa was even stricter on ourselves with an internal administrative	
	limit much lower than that of the NNR. The outcome was still not even reaching our administrative	
	limit, less than the regulatory limit and fairly remote from the international norm.	
	Ms Q Boyede informed that garden refuse would be burned from the 15th to 19th of August, and it	
	was not a norm to do this.	
6.3	3) Question by Mr Thabiso Malatsi	
	From the mentioned projects within Necsa there is no mention of local participation as part of either	
	on job training and or local economic empowerment element. Please clarify on this one.	
	Answer 3:	
	Mr L Tyabashe highlighted the importance of the high level type of projects that was going to take	
	place. All of the projects would need an element of participation at different levels. Some of the	
projects were high end, requiring top scientists and top engineers, but the projects went all the v		
	to installing infrastructure on our site where it could require local participation. It was very good that	
	the information was shared and were well understood in terms of what was happening.	
	Ms N Tengimfene explained that there are advertisements placed from time to time for people to form	
	part of the Necsa Learning Academy and there was a presentation that detailed the list of areas that	
	were being covered, such as welding, electrical, etc. and that it was fully sponsored by CHIETA which	
	targeted out of school learners. That was another avenue that Necsa was handling in terms of	
	equipping the communities. The second area was the registration within the Necsa database in terms of the small medium enterprises.	
	of the small mediant enterprises.	
	Mr L Tyabashe encouraged local participation and our intent was to make sure that there was huge	
	local participation in the activities that we do. But because some of these come at different grades of	
	nuclear competency, Necsa would always make sure that the skill was there. Necsa could capacitate	
	people to the best that we could, but in the end, quality was important, but local participation was as	
important.		
	Mr M Mathosa added that with projects of this nature normally after the environmental impact	
	assessments and various other stages there would be a request for information with regards to the	
	opportunities available. Interested parties should be on the lookout for communication from the	
	organization or via various means. People could then see which opportunities came with issues like	
	this.	



7. NNR UPDATE (Mr T Pather)

/.	NNR UPDATE (Mr. 1 Patner)	
No.	Minute	Responsible
7.1	Chairperson and Deputy Chairperson	
	During the last meeting, the public voted for the new Chairperson and Deputy Chairperson and it was tabled at the NNR Board Meeting on 28 July. Both the Chairperson and Deputy Chairperson received letters from the NNR Board confirming their appointments, which both accepted. The dates on the letters of acceptance were 2 and 10 August 2022.	
7.2	7th Review Meeting under the Joint Convention on the Safety of Radioactive Waste Management and the Safety of Spent Fuel Management	
	The NNR participated in the 7th Review Meeting under the Joint Convention on the Safety of Radioactive Waste Management and the Safety of Spent Fuel Management from 27 June to 8 July, 2022. The main objective of the convention was ensuring a high level of safety in spent fuel management and radioactive waste management and ensuring that there was enhancement of the national measures and a strong level of international cooperation to achieve safety in spent fuel and radioactive waste management.	
	One of the things that happened as part of the review meeting was that each of the contracting parties prepared a national report describing how they meet all of the aims of the Convention. This was then peer reviewed by the other contracting parties, and then there were questions posed on the national reports seeking clarification. During the review meeting, each of the contracting parties, in this case, South Africa made a formal presentation addressing the inputs from the national report as well as addressing all of the questions and comments that were made on our national report, which was presented on 30 June and the presentation was undertaken by the acting CEO of the NNR and was well received.	
	The contracting parties recognized the good progress South Africa was making in terms of the management of spent fuel and radioactive waste management. In particular the contracting parties recognized our efforts in terms of the projects for extension of dry storage of spent fuel, the next Thabana Pipe Store extension as well as the transient interim storage facility for spent fuel at Koeberg. They also noted our continuing efforts in skills development and capacity building, the comprehensive participation of the public in the licensing processes for nuclear facilities, and the progress we've been making in the establishment of the national radioactive Waste Management Fund. The number of contracting parties to the Convention increased from 78 at the last review meeting to now 88. The contracting parties recognize the good progress that all contracting parties had made, therefore not just the ones for South Africa that were highlighted.	
	There was agreed that the next review meeting of the contracting parties of the Joint Convention would be held from 17-28 March 2025. It was also agreed that the next round of national reports would include special, specific information relating to competence and staffing linked to the timetables for spent fuel and radioactive waste management projects, inclusive public engagement on radioactive waste management and spent fuel programs; where applicable, aging management of packages and facilities for radioactive waste and spent fuel considering that a number of countries were actually undertaking extended storage periods.	
	The contracting parties would also look at the long term management of disused sealed sources, including suitable options for regional as well as multinational solutions as applicable. South Africa would have a national solution, and would not be engaging in any regional multinational solutions on sources, but that would be the issues that we need to cover specifically in our next national report to the Joint Convention.	



NNR UPDATE (continued)

No.	Minute	Responsible
7.3	Power outage at Necsa On 19 July Necsa experienced a loss of power of incident on site which lasted for approximately 40 minutes. All the Necsa safety measures were implemented and there were no actual safety concerns. The NNR was awaiting the final investigation report in terms of the cause of the incident, it was indicated it was a power outage that was the result of challenges on the part of ESKOM, but it did affect power on site.	
7.4	Coal commissioning activities at Necsa test smelter The coal commissioning activities at the test smelter was a project that Necsa started some years ago, and experienced challenges during the commissioning undertaken at the beginning of July. There were no immediate safety concerns, but the NNR suspended the commissioning activities pending submission of additional information from Necsa, before being allowed to proceed with it.	
7.5	Medium Active Effluent Evaporation Facility There were some challenges with the management of the Medium Active Effluent Evaporation Facility for quite some time, and resulted in challenges for some of the nuclear facilities in terms of the on-site storage capacity of medium active effluent. Necsa informed the NNR that necessary corrective measures at the facility was implemented and the medium active evaporator was once again fully functional. The NNR was awaiting the detailed evaluation in terms of the cause of it as well as future corrective measures that Necsa would be implementing.	
7.6	Multi-Purpose Reactor The NNR responded to Necsa on the submission relating to the proposed new Multi-Purpose Reactor. Necsa previously submitted a licensing strategy as well as project management plan. The NNR replied with a set of comments that Necsa needed to provide further clarification on the number of issues, including the time frame for which the formal license application would be made to the NNR.	

8. GENERAL

No.	Minute	Responsible
8.1	Question 1: Mr T Malatsi requested that the presentations be made available to the public to review and do their own research on the issues presented. He recalled that they previously received the presentations and was assisted in understanding how Necsa operated. He no longer saw the scorecard updates on the Safety Presentation.	
8.2	Question 2 Mr T Malatsi engaged with several community members and they wanted to attend the meetings, and give their inputs, but were facing challenges of resources in terms of data and could not attend the virtual meetings. The community requested to return to the normal meetings as the situation in our country has now normalised.	
	Answer 2: Mr M Mathosa commented that Mr Malatsi raised the same question in the previous meeting and the Communication Office mentioned that they would look at hosting meetings again in physical form during the warmer summer months.	
	Ms N Tengimfene informed that Necsa was planning on discussing whether the upcoming meeting in November should take place physically, which was also what was discussed when this issue was previously raised, but the forum needed to decide on a preferred day and time.	



GENERAL (CONTINUED)

No.	Minute	Responsible
	Mr M Mathosa commented that the meeting would take place physically but the forum was faced with the challenges to whether the meeting would continue in the evenings, or would it move back to a Saturday. He suggested that the Secretariat issue another survey so that the public could vote on their preference of attending the physical meetings on a Thursday evening or Saturday morning.	
	Mr L Tyabashe suggested a hybrid meeting where members would be able to attend the meeting physically or could still join with the MS Teams link and attend the meeting virtually. He requested the Communications team to look at the possibility of it.	

9. DATE OF NEXT MEETING

No.	Minute	Responsible
	Dependent on the outcome of the survey, the next meeting would be hosted at the Necsa Visitor	
	Centre on either Thursday, 10 November 2022 at 19h00 OR Saturday, 12 November 2022.	

10. CLOSURE

No.	Minute	Responsible
	Mr M Mathosa thanked all participants and presenters and closed the meeting at 20h41.	

Chairperson:	Seconder:
Signature:	Signature:
Date:	Date: