

# Proposed Thyspunt Transmission Lines Integration Project (TTLIP)

# DRAFT MINUTES OF THE KEY STAKEHOLDER WORKSHOP

Held on Friday, 15 May 2009

at
The Kelway Hotel, Port Elizabeth

#### SiVEST Environmental (Pty) Ltd

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<u>Draft Minutes prepared by:</u>
Ashleigh Ward

Please address any comments to Themba Skonje/Chris le Roux or Nicolene Venter at the above address

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#### YOUR COMMENTS ON THE DRAFT MINUTES

Your comments on this draft Minutes will be appreciated. In particular, we request you to verify that your comments during the meeting have been minuted correctly. It is important to note that the draft Minutes are not verbatim. Please address your comments, in writing, before or on **Monday, 30 November 2009** to Themba Skonje/Chris le Roux or Nicolene Venter at the address given on the cover page.

#### **KEY STAKEHOLDER WORKSHOP:**

Venue: The Kelway Hotel, Port Elizabeth

Date: Friday, 15 May 2009

**Time:** 10h00

#### 1 WELCOME AND INTRODUCTIONS

Nicolene Venter thanked the attendees for attending the Key Stakeholder Workshop (KSW) and thus giving the project team an opportunity to present the proposed project to them. She introduced the project team members to the attendees and informed them of their respective roles at the meeting.

Permission was requested and thus granted by the attendees that the meeting can be recorder for minute taking purpose and should there be a query regarding a comment / question / concern raised, it can be verified.

The attendees were requested to identify themselves when raising questions, comments and/or concerns for minute taking purposes.

#### 2 MEETING ATTENDEES

A copy of the Attendance Record is attached as Annexure A.

#### 3 PURPOSE OF THE MEETING

Nicolene Venter informed the attendees that the purpose of the Key Stakeholder Workshop was to:

- Provide Key Stakeholders with information regarding the proposed project;
- Provide Key Stakeholders with information regarding the proposed Nuclear 1 Power Station project and how it relates to the proposed transmission line project;
- Provide an opportunity for the Key Stakeholders to become involved and seek clarity on the project;
- Provide feedback on the environmental finds as in the draft Scoping Report;
- Describe and discuss the construction methods which Eskom uses whilst erecting powerlines like the ones that have been suggested for the proposed project;
- Briefly discuss the way forward and;
- Record comments, issues and concerns raised at the meeting.

#### 4 BACKGROUND & PROJECT CONTEXT

Thamasanga Ngcobo, of Eskom Transmission, briefly explained the construction methods and materials that are used by Eskom Ltd when erecting transmission lines.

Magnus Wegen, of Eskom Generation, briefly explained the Nuclear-1 Power Station project to the attendees.

Liesl Koch explained to the attendees that the proponent is Eskom Holdings Ltd, and the project is aimed at strengthening the national electricity grid to meet its mandate and commitment to supply the ever-increasing needs of the end-user. She added that Eskom has to plan, establish and expand its generation capacity and transmission power lines infrastructure on an on-going basis. The attendees were requested not to confuse the Thyspunt Transmission Lines Integration Project (TTLIP) with that of the proposed Eskom Nuclear 1 Power Station Project. Arcus Gibb, the independent environmental consultants are currently undertaking the EIA for the **three (3)** proposed Eskom Nuclear 1 Power Stations. Thus, the preferred site for the proposed Nuclear 1 Power Station still needs to be confirmed through a separate EIA process.

However Eskom Transmission has embarked on the following:

To integrate the electricity that will be generated by the proposed Thyspunt Nuclear Power Station (should an Environmental Authorisation be granted by the Department of Environmental Affairs and Tourism - DEAT), Eskom Transmission need to investigate possible Transmission power line routes (within the 5km corridors) from the proposed Eskom Nuclear 1 Power Station at Thyspunt to a newly proposed Port Elizabeth transmission (Tx) substation and to Eskom's existing Dedisa and/or Grassridge transmission substations.

#### 5 AN OVERVIEW OF THE PROPOSED PROJECT

Liesl Koch informed attendees that:

- The applicant is Eskom Holdings Ltd;
- SiVEST has been appointed as the independent environmental consultants for the EIA;
- The decision-making authority is the Department of Environmental Affairs and Tourism
- Need for the project: To link the electricity generated by the proposed Thyspunt Nuclear 1 Power Station into Eskom's electricity network;
- Two corridors are being investigated, a northern corridor and a southern corridor, that are not alternatives to one another; instead there are route alignment alternatives within each corridor;
- The construction of a newly proposed Port Elizabeth Tx Substation;
- The upgrade of Eskom's existing Grassridge and Dedisa Tx Substations; and
- An EIA is being undertaken because it is a legal requirement to ensure that environmental best practice is followed.

# 6 SUMMARY OF ENVIRONMENTAL IMPACT ASSESSMENT (EIA) PROCESS TO BE UNDERTAKEN

Liesl Koch informed the attendees that the draft Scoping Report is currently available for public review and that the scoping phase of an EIA is:

- An issues-based, desk top investigation
- Identification of potential impacts which require more detailed assessment
- Investigation of the potential impacts relating to:
  - o Biophysical environment
  - o Socio-economic environment

#### Biophysical aspects that were assessed include:

- Avifauna Birds
- Geology Rocks/Soils
- Geohydrology Groundwater
- Surface water Rivers/Streams/Wetlands
- Agricultural Potential Soil Productivity
- Biodiversity Flora/Fauna (plants/animals)

#### Social and Socio-economic aspects that were assessed include:

- Archaeological / Cultural and Heritage resources
- Visual impact
- Socio-economic environment
- Tourism

A copy of the presentation is attached as Annexure B.

#### 7 DISCUSSION SESSION AND QUESTIONS

Please refer to Annexure C.

#### 8 CLOSURE AND WAY FORWARD

Liesl Koch informed attendees that the process forward will be:

Distribution of the draft KSW minutes to all who attended and submitted apologies.

All present were thanked for their attendance and the valuable inputs received at the meeting. All were informed that the meeting would not be the only opportunity to submit comments on the proposed project. At any time throughout the EIA process they can submit comments and/or concerns.

The meeting was closed at 12h00.

# **Annexure A**

# ATTENDANCE RECORD

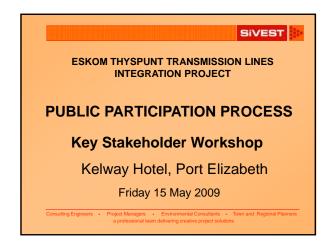
# KSW Attendees - Kelway Hotel, Port Elizabeth on 15 May 2009

Name: Breytenbach, Johan	Position Project Manager: Nucleart-1 Project	<u>Company</u> Eskom
Chiume, Sipho	Energy Officer	Department of Minerals and Energy
Dodd, Mark	Chairman	Elands River Conservancy
Donnelly, Ryan	Chairperson	For A Safe Tomorrow
Ferndale, TB	Planning Engineer	Nelson Mandela Bay Metropolitan Municipality
Lungile, Thanduxolo	Provincial Manager	SAHRA: Eastern Cape Province
Malgas, Alwin	Chairman	Sea Vista Residents Association
Ngcobo, Thamsanqa	Technical Advisor	Eskom
Smetrys, Serge	Vice Chairman	Elands River Conservancy
Stroh, Lizell	Obstacle Specialist	SA Civil Aviation Authority
Vockerodt, Brian	Lines and Servitude Manager	Eskom Transmission Limited
Wagener, Magnus	Chairman	Mountain Club of SA: Eastern Cape
Weitz, Frank	Manager	Dept of Agriculture: Eastern Cape
Wilmans, Greg	Foreste: Manager	MTO Forestry (Pty) Ltd: Longmore Plantation

Totals

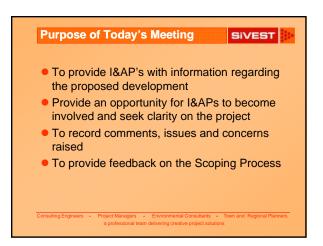
# **Annexure B**

# **COPY OF PRESENTATION**



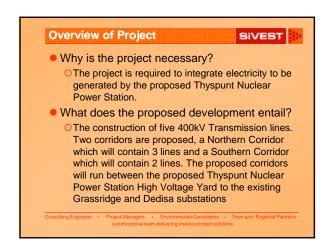


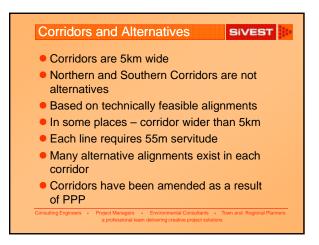


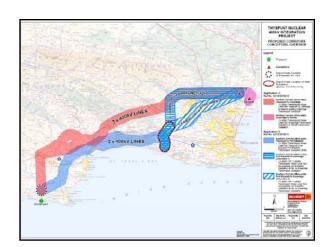


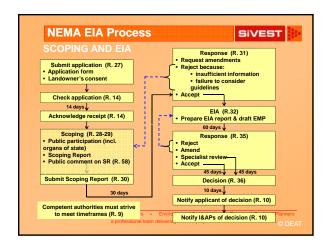




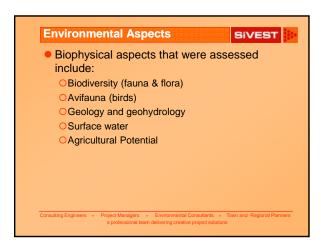




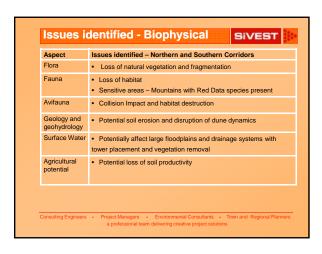






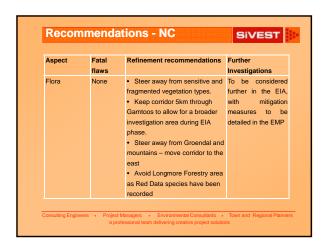


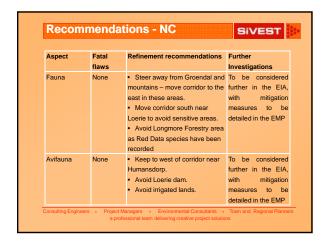


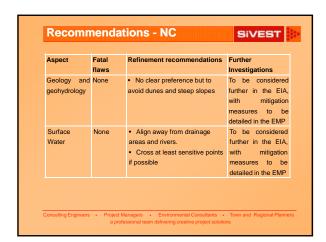




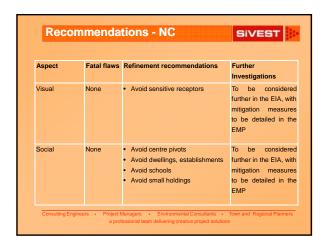


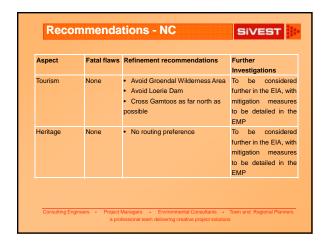




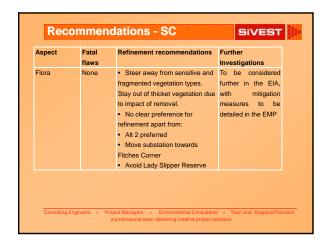


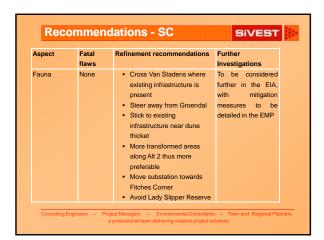


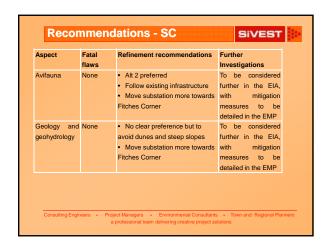


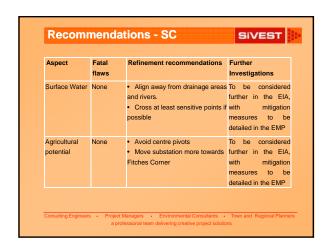


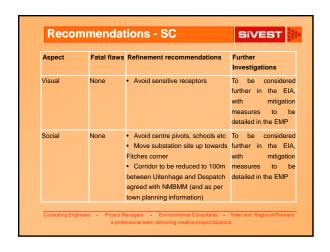


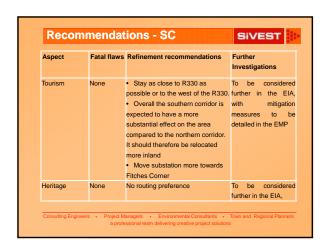


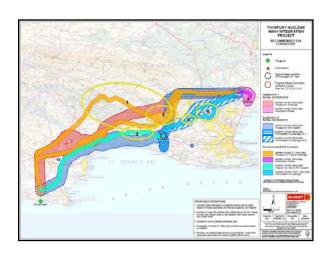


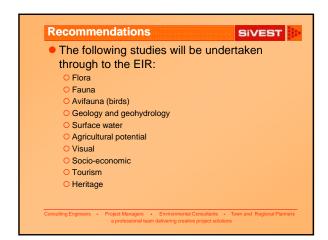
















# **Annexure C**

# **DISCUSSION SESSION AND QUESTIONS**

#### **DISCUSSION DOCUMENT**

#### **INDEX**

1	EIA Process Comments/Issues
2	Water Related Comments/Issues
3	Heritage Impact Related Comments/Issues
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#### **ABBREVIATIONS:**

KSW: Key Stakeholder Workshop

NEMA: National Environmental Management Act

DWAE: Department of Water and Environmental Affairs

EMP: Environmental Management Plan

CEMP: Construction Environmental Management Plan

ECO: Environmental Control Officer

1	201112	D
Issue/Comment	Raised By	Response
1 E	IA Process Comments/Issues	
Stated that there are many specialist reports, each stated what should and shouldn't happen during the construction and maintenance phases, yet in the past contractors came in and cut fences and left them unrepaired, workers left rubbish and litter lying around, roads have not been fixed and maintained as stated in the EMPs, therefore he is not convinced about anything that is put on paper. He stated that he has evidence of where people have removed cycads from the veld etc and if this project goes ahead, there are going to be many issues in the sense that these problems are not going to be avoided regardless of what the reports state. He then enquired as to what recourse do landowners etc. get if and when these activities do occur.	Mr Mark Dodd Chairman: Elands River Conservancy KSW: 15 May 2009	Responded by saying that an Environmental Control Officer (ECO) is appointed who enforces compliance with the CEMP. These reports get sent to the determining authority. In some cases it's been useful to appoint a local person who is familiar with the community, the issues in the area and who can be more aware of what to expect in that area. This is a recommendation that SiVEST will make. Local people carrying out this function must be strict and there are success stories such as that of the road around the Knysna Lagoon where a local gentleman was appointed as the ECO. Liesl Koch: SiVEST
		Responded saying that before any construction occurs in each area, photos of the site are taken and when construction is complete, the site is to be rehabilitated to the same condition that it was in prior to when the construction activities occurred. There is also a Final Release Certificate that has to be signed in order to take responsibility of that land, but included will be the level of rehabilitation which the landowner has to be in agreement with in order for the form to be signed and for the completion of the negotiation.  Lerato Mokgwatlheng: Eskom
2 W	ater Related Comments/Issue	s
Stated that he does mountaineering and drinks water from the mountains as well as under the powerlines and he requests that a water study be conducted both prior to as well as after the construction activities have occurred in order to ensure that the drinking water standards remain the same as he is concerned about his wellbeing should this water be polluted by workers etc.	Mr Serge Smetrys Vice Chairman: Elands River Conservancy KSW 15 May 2009	Comment Noted and will be forwarded to the relevant specialist. The CEMP will ensure that water quality of rivers is maintained. All potential pollutants will be placed well away from all water resources.  Liesl Koch: SiVEST
Enquired whether or not the oil holding dam at substations gets a lid on it and raised the concern that in Port Elizabeth there are flash floods and many millimetres of rain can fall in one evening/day. His concern is that the water will build up and the holding dams will overflow. Therefore an oil spill will impact on surface and ground water.	Mr Serge Smetrys Vice Chairman: Elands River Conservancy KSW 15 May 2009	Responded saying that one of the main purposes of the net is in order to stop animals and/or people from falling in.  Nicolene Venter: SiVEST  Responded that holding dams are designed in such a way as to hold 1.5 times the capacity of oil within it and it is not located in a low lying
		area so that the possibility of flash floods actually filling it up is very remote. The rain that does go into it during the course of the year will

Issue/Comment	Raised By	Response
		evaporate so Eskom does not have to pump it out continuously. The holding areas are for extreme circumstances and are usually never used in its lifetime. They are monitored and checked regularly so if they are reaching a certain level, the oil will be pumped out of them.  Brian Vockerodt: Eskom Lines and Servitude Manager
3 Heritaç	ge Impact Related Comments/I	ssues
Stated that the specialist who will be conducting the Heritage Impact Assessment should remember to consider all heritage aspects.	Mr Thanduxolo Lungile SAHRA Provincial Manager Eastern Cape Province	Responded by saying that the specialist is very thorough as the cultural environment/landscape is also very important.  Liesl Koch: SiVEST
Mentioned that during construction activities some artefacts and/or graves may be unearthed therefore it is vital that a specialist be employed/appointed in order to determine the significance of any artefact that may be found.	KSW 15 May 2009	Responded by saying that if the project is approved, the specialists who have been appointed for each theme i.e. the faunal specialists, the heritage specialist etc. will all walk the proposed route and conduct a point specific assessment of the proposed line for the Construction Environmental Management Plan and will provide mitigation measures and recommendations for every single tower location. If a heritage site etc is found the 2km servitude comes into play as the specialist may state that the line must be moved in order to protect that specific site. This occurs before anything is constructed.  Liesl Koch: SiVEST  Mentioned that Eskom has a procedure, as stated in their presentations, that if anything is unearthed during construction, the area is cordoned off and SAHRA are contacted immediately. This is also stated in the CEMP.  Nicolene Venter: SiVEST  (The above was confirmed by Eskom team members).
4 Socio-econo	mic and Social Related Comm	ients/Issues
He also mentioned that toilet facilities are put up, but the workers do not make use of them and this is a serious problem for farmers and may pose as a water pollution risk and measles are transmitted to cattle through faeces. He then enquired as to what recourse do landowners etc. get if and when these activities do occur and what guarantee is there of the safety of the women and children (who are normally at home alone), especially since he lives in a rural area where people are spread	Mr Mark Dodd Chairman: Elands River Conservancy KSW: 15 May 2009	Responded by saying that an Environmental Control Officer (ECO) is appointed who enforces compliance with the CEMP. These reports get send to the determining authority. In some cases it's been official to appoint a local person who is familiar with the community, the issues in the area and who can be more aware of what to expect in that area and this is a recommendation that SiVEST will have to make. Local people

Issue/Comment	Raised By	Response
some distance from one another.		carrying out this function must be strict and there are success stories such as that of the road around the Knysna Lagoon where a local gentleman was appointed as the ECO.  LiesI Koch: SiVEST
	Ma Dana Dana dha	Responded saying that before any construction occurs in each area, photos of the site are taken and when construction is complete, the site is to be rehabilitated to the same condition that it was in prior to when the construction activities occurred. There is also a Final Release Certificate that has to be signed in order to take responsibility of that land, but in there will be the level of rehabilitation which the landowner has to be in agreement of in order for the form to be signed and for the completion of the negotiation.  Lerato Mokgwatlheng: Eskom
Enquired as to which communities would be affected where these power lines are being proposed to run in close proximity to and how close the lines are expected to be to these communities.	Mr Ryan Donnelly Chairman: For a Safe Tomorrow KSW 15 May 2009	Responded saying that many communities are affected and this keeps changing according to the changes to the proposed route corridors. Currently the Rocklands community is affected by the proposed transmission lines and this will be looked at closely in the EIR phase of the project. Other areas that are also important in this regard or those of Uitenhage, Despatch, Kruisfontein, KwaLanga and KwaNobuhle as they are densely populated and therefore present problems from a space perspective as well as a health and safety perspective.  Liesl Koch: SiVEST
Enquired as to what distance would Eskom place power lines away from a clustered poor community / township.	Mr Ryan Donnelly Chairman: For a Safe Tomorrow KSW 15 May 2009	Responded saying that this issue would have to be placed in the post-meeting minutes in order to ensure an accurate response.  Nicolene Venter: SiVEST  Post-meeting Note:  Eskom would avoid community settlements and no structures are allowed within the servitude being 55m wide for a 400kV transmission line.  Dean Wilson: Eskom
Enquired whether or not SiVEST and Eskom knew of the Comparative Supply and Development Programme and then went on to mention that it is a programme that was developed by the Department of Public Enterprises and it is a programme for all state enterprises who are obligated to comply with the programme. The aim of the programme is to develop local suppliers in South Africa to supply parts to the Eskom enterprises. This acts as an opportunity for job creation. Eskom has already	Mr Alwin Malgas Chairman: Independent Democrats KSW 15 May 2009	Comment noted and information will be forwarded to the SIA specialist.  Nicolene Venter: SiVEST

Issue/Comment	Raised By	Response
signed to be in accordance with the programme and they will be audited.		
5 E	IA Process Comments/Issues	
Enquired whether or not DWEA are the determining authority and what would happen if they denied authorisation for the proposed project.	Mr Mark Dodd Chairman: Elands River Conservancy KSW: 15 May 2009	Should an EA be denied, Eskom would be allowed to appeal the decision in terms of NEMA, just as all of the stakeholders and I&APs have the right to appeal any decision that is made. If the appeal is turned down then Eskom will not be allowed to erect the transmission lines.  Liesl Koch: SiVEST
6 Electro	Magnetic Fields Comments/Is	ssues
Enquired as to what the health and safety requirements are regarding EMFs and as to what the standards are regarding the distance that transmission lines have to be placed away from communities and residential areas. He also mentioned that the poorer communities tend to reside underneath the powerlines which is detrimental to their wellbeing.	Mr Ryan Donnelly Chairman: For a Safe Tomorrow KSW 15 May 2009	Responded saying that a document discussing EMFs has been included in the DSR (annexure 11), but the servitude widths that were mentioned i.e. 55 metres per a line is the recommended requirement. She noted his concern regarding the spreading townships and the possibility that these poorer communities may eventually locate themselves underneath the transmission lines and that this would have to be noted in the operational environmental management plan.  Liesl Koch: SiVEST
7 Proposed Port El	izabeth Substation Related Co	omments/Issues
Enquired as to the size of the proposed substation i.e. the size of the area that the proposed substation is likely to take up.	Mr Mark Dodd Chairman: Elands River Conservancy KSW 15 May 2009	Responded saying that it depends on what Eskom requires for the substation i.e. two transformers and number of feeder bays. Therefore the size of Tx substations varies based on these requirements. The proposed new PE Tx substation is based on between 100 m² to 150m². Should detailed information be required, a written request can be submitted to Eskom and Eskom will be able to supply the relevant information.  Thamasanga Ngcobo: Eskom Transmission  Responded saying that SiVEST is doing the environmental studies for an area of 400m².  Liesl Koch: SiVEST
It was enquired for confirmation purposes that the proposed substation site has been moved from the Blue Horizon Bay area to Fitches corner and that is the final decision.	Representative Blue Horizon Bay Residents' Association	Responded saying that from an environmental viewpoint, this site appears to be the preferred site as it is already a degraded area. It also serves the need of the NMBMM for the distribution lines to get out from

Issue/Comment	Raised By	Response
	KSW 15 May 2009	the area. She then added that the substation would not be placed near Blue Horizon Bay.  Liesl Koch: SiVEST
Enquired as to the capacity of the proposed sub-station.	Mr Sipho Chiume DME Energy Officer KSW 15 May 2009	Responded saying that it is proposed to be a 400kV sub-station and then go down to a 275kV or 132kV for the municipality, but this is not for certain therefore feedback will be given at a later stage.  Liesl Koch: SiVEST
8	Servitude Related Comments	
Enquired as to what exactly the servitude entails for the farmers i.e. what are they able to do underneath it.	Mr Gregg Wilmans MTO Longmore KSW 15 May 2009	Responded by saying that cattle farming and grazing activities as well as low level agricultural crop farming can occur. She went on to mention that central pivot farming activities are problematic because the powerlines span 400 metres and the pivots span a greater distance than that, therefore those areas are to be avoided if possible, but other farming activities can continue as normal underneath the powerlines.  Liesl Koch: SiVEST
Enquired as to what would happen should Eskom not be able to avoid farms making use of central pivot irrigation.		Responded saying that Eskom would follow normal procedure and those farmers would be compensated.  Liesl Koch: SiVEST
9	Map Related Comments	
It was requested that the corridor information (co-ordinates) be forwarded to SACAA in order for them to determine how the proposed lines may affect the smaller airports within the study area.	Ms Lizell Stroh Obstacle Specialist: SA Civil Aviation Authority KSW 15 May 2009	Request noted and will be forwarded to the GIS specialist.  LiesI Koch: SiVEST
10	Technical Related Comments	
Enquired as to what the maximum pylon height is that is to be erected i.e. are there plans to use the pylons that are 55 metres in height.	Ms Lizell Stroh Obstacle Specialist SA Civil Aviation Authority KSW 15 May 2009	Responded saying that the height of the pylons that are expected to be used is 38 metres. If the designers decide to use those with a wider span there may be areas where the pylons will be taller, but at least 90% of the line will be made up of pylons that are 38 metres in height. The design will be determined by the final route alignment which has not been finalised and therefore no plans can be given at this point in time.  Thamasanga Ngcobo: Eskom Transmission  Responded saying that SiVEST will take the worst case scenario i.e.

Issue/Comment	Raised By	Response
		the highest possible pylons (55 metres) and assess this in the reports.
		Therefore, 55 metres will be taken as a precautionary measurement.
		Liesl Koch: SiVEST
		Responded saying that the 765kV lines are those of 55 metres and
		therefore these lines should never go to that height, but the self
		supporting towers may be extended by two to three metres; but it is
		really not expected that these lines will exceed 38 metres in height.
		Brian Vockerodt: Eskom (Lines and Servitude Manager)
Enquired what would the impacts be on the structure of the lines that are expected	Mr Ryan Donnelly	Responded saying that the structures are designed with many aspects
to be located in the area between Jeffrey's Bay and St Francis Bay due to the flat	Chairman: For a Safe Tomorrow	in mind including wind loading on the conductors and the structures.
typography and high wind speed.	KSW 15 May 2009	The structures are designed to fit those for the conditions typical of the
		country.
	M. C. v. M.	Thamasanga Ngcobo: Eskom Transmission
Enquired, from a forestry point of view, as to the distance that must be maintained	Mr Greg Wilmans	Responded saying that Eskom requires 55 metres servitude per power
between the lines and any vegetation.	Forester MTO: Longmore Plantation KSW 15 May 2009	line and that MTO informed the project team that provision will have to
	K5W 15 May 2009	be made to ensure the integrity of the power lines should a tree of. 5m high (for example) falls over into the servitude. These details will be
		discussed during Eskom's servitude negotiations.
		Nicolene Venter: SiVEST
44 000	leral Comments & Issues Rais	
11 Ger	ierai Comments & issues Rais	sea
Enquired as to what the clearance is that is required between the distribution lines	Mr Mark Dodd	Responded saying that the clearance between the distribution lines and
and the trees as in the examples given in Eskom's construction presentation.	Chairman: Elands River Conservancy	the trees is four metres (4m).
	KSW 15 May 2009	Brian Vockerodt: Eskom (Lines and Servitude Manager)
Enquired whether or not vegetation will have to be cleared underneath the power		Responded saying that the maximum height of vegetation relates to the
lines.		four metre clearance between the vegetation and the conductor. This
		actual height of what the vegetation underneath the lines will therefore
		vary.
		Brian Vockerodt: Eskom (Lines and Servitude Manager)
Enquired whether or not recording of the meeting was for minute taking purposes.	Mr Alwin Malgas	Responded saying that the meeting is being recorded for minute taking
	Chairman: Independent Democrats	purposes so that if discrepancies occur it can be accurately dealt with
	KSW 15 May 2009	and amended if need be. She then added that an electronic copy would
		be made available to the attendees upon written request.
Out 14 of Files and 1 december 15 of 15	M. O O	Nicolene Venter: SiVEST
Stated that Eskom are buying property and therefore it appears to be a sealed deal	Mr Serge Smetryns	Responded by stating that Eskom does take a lot of risk, regarding the
that the power station and the transmission lines will be constructed.	Vice Chairman: Elands River	purchase of property, with potential projects such as the proposed

Issue/Comment	Raised By	Response
	Conservancy KSW 15 May 2009	nuclear power station. He then mentioned that studies for road access, bridges etc. are also taking place at the moment because Eskom can not afford to only start those processes if and when the project is approved by the authorities.  Johan Breytenbach: Eskom Generations
		Post-meeting note:  No properties are being purchased by Eskom for the proposed Transmission power lines. Eskom will only consider purchasing property should it be a narrow piece of property and the effect of the Transmission power line disrupt land operations. The preferred method however is to acquire options to register servitudes from landowners. Dean Wilson: Eskom
Enquired as to the status of the Concentrated Solar Plant in Upington as he believes that the EIA for that project was approved. He also enquired whether or not the wind farm and the plant in Upington were plants that are urgently required.	Mr Ryan Donnelly Chairman: For a Safe Tomorrow KSW 15 May 2009	Responded by saying that it has been put on hold due to financing issues, but it and the Wind Farm are not major and/or urgent plants for electricity generation.  Mervin Theron: Eskom
		Mentioned that the World Bank usually helps with funding for projects relating to alternative energy, but due to the world-wide financial crisis the bank is now hesitant to back up such projects at this point of time.  Johan Breytenbach: Eskom
		Post-meeting note  These renewable energy projects are definitely part of the Eskom generation mix. However, nuclear power is usually used for base load and operates continuously (day & night) due to their availability while renewables such as wind and the sun are dictated by environmental conditions .ie depending on when the wind blows which are highly unpredictable which render them more intermittent. Due to the financial melt down and Eskom funding constraints they have been put on hold.
		It is also well known that the World Bank usually helps with funding for projects relating to renewable energy, but due to the world-wide financial crisis the bank is now hesitant to back up such projects at this point of time.

Issue/Comment	Raised By	Response
		Mervin Theron: Eskom
12 Nuclea	r Power Station Related Com	ments
Stated that the site is expected to be 4000MW he then enquired whether or not it meant that the site will never go above that. He also enquired whether or not for every 4000MW there is a requirement of five lines out of the plant.	Mr Ryan Donnelly Chairman: For a Safe Tomorrow KSW 15 May 2009	Responded saying that Eskom predict that some of the sites may be able to take up to 10,000MW capacity. Eskom are therefore looking into the maximum carrying capacity of each site. Nuclear 1 is projected to be approximately 4 000MW, but Eskom are also looking into putting another nuclear plant on the same site as Nuclear 1 as it will be more beneficial. Five lines are more or less what are required for every 4000MW.  Thamasanga Ngcobo: Eskom Transmission
It was enquired as to what the exact size of the site is and where can information regarding the site size be obtained.	Mr Alwin Malgas Chairman: Independent Democrats KSW 15 May 2009	The footprint as described and assessed during the EIA will not be exceeded as it will currently be able to handle a power station with a maximum capacity of 10 000MW. Information regarding this footprint is available in the EIA reports.  Johan Breytenbach: Eskom Generations  Post-meeting note:  The current application is for the construction and operation of a 4 000MW nuclear power plant. It was consistently communicated at all public meetings that the Eskom's Board approved the investigation of developing 20 000 MW of Nuclear Power. Subsequently although any development of any nuclear power station beyond the prescribed 4000 MW would require an additional EIA all specialists studies are also required to assess the maximum generating capacity that could be constructed on each of the three sites, with respect to environmental constraints. Eskom proposed that the specialists assume a capacity range of a minimum of 4000 MW to a maximum of 10000 MW Further information is available on the following website: http://projects.gibb.co.za/
Enquired whether or not the possibility of upgrading has been identified within the current projected footprint. He also enquired whether or not there are diagrams illustrating the proposed Nuclear 1 and where the future expansions may occur.	Ryan Donnelly Chairman: For a Safe Tomorrow KSW 15 May 2009	Responded saying that it has been included because Eskom identified the area where it would be possible to place the Power Station so because there are studies currently taking place by EIA specialists, they will indicate if and where there are sensitive areas where Eskom can not place the station. Due to the variation between vendors, a detailed drawing has not been produced as yet, but the environmental studies stipulate (according to the size of a regular power station) where a

Issue/Comment	Raised By	Response
Enquired as to what the total amount of watts is that Eskom envisions getting out of Nuclear 1 i.e. what is the national target.  Enquired as to why Thyspunt has been chosen as the location for the proposed power station i.e. if it is the simplest and most economical way of doing it; as there seems to be lots of logistics involved.	Mr Mark Dodd Chairman: Elands River Conservation KSW 15 May 2009	station of roughly that size may be placed.  Mervin Theron: Eskom Post-meeting note: Refer to the above response. Any further information on the Nuclear-1 sites EIA can be obtained from the following website: http://projects.gibb.co.za/ Responded saying that 20000 MW is the national target, including sites inland and up into Natal in order to try and spread the generation more equally around the country. They need to be near a water source and that is why coastal areas have been targeted at this point in time. The Eastern and Western Cape areas were seen as strategic options for the proposed stations. Inland dams may also be an option for the future.  Mervin Theron: Eskom  Post-meeting note: The current EIA sites for Nuclear-1 is for a maximum of 4 000MW. Eskom is investigating developing 20 000 MW of Nuclear Power.  Mervin Theron: Eskom  Responded saying that nuclear plants need to be close to water and that was why coastal areas were targeted when looking for possible sites for the plants. The Sterkfontein Dam was also taken into consideration, but it is very close to the current generation capacity of South Africa.  Nuclear energy is being introduced as transported coal is a problem and therefore Eskom does not want to construct more coal power stations.  The Nelson Mandela Metropolitan area was scoped and the area north of it i.e. Alexandria; was ruled out as the sand is too deep, therefore to hit bedrock (for construction of the power station was not a logistical option. Five sites were then identified near Signal Point in the Cape St Francis area. Three of those i.e. west of Oyster Bay; were ruled out as they occurred along a major geological fault. This left two sites available namely; Thyspunt and Tony's Bay which are close to one another and
		therefore consolidated into a single site.  Mervin Theron: Eskom  Mentioned that the detailed process as to how Eskom identified the

Issue/Comment	Raised By	Response
		potential sites is attached to the Scoping Report for the Nuclear 1
		Power Station and it is also available on Eskom's website.
		The Theorem to the income instant on Februaries to desirable to estimate
		The Thyspunt site is very important as Eskom is trying to minimise consumer's costs by creating local supply to the various areas as this
		minimises costs in importing energy and also creates more security
		within the areas. Lots of development is occurring in the Eastern Cape,
		therefore a local energy supply is favourable.
		Johan Breytenbach: Eskom
		Post-meeting note:
		The initial identification of all sites considered as part of the sites EIA
		was the result of an extensive Nuclear Site Investigation programme, which occurred in the mid 1980's. Sites were identified based on a
		range of socio economic and bio physical criteria. You are encouraged
		to review the NSIP summary, which was included as part of the Final
		Scoping report of the sites EIA.
		Any further information on the Nuclear-1 sites EIA can be obtained from
		the following website: http://projects.gibb.co.za/
		Mervin Theron: Eskom
Enquired whether or not Eskom looked at more than one site (regarding the area		Responded saying that an area was first looked at and then specific
north of the Nelson Mandela Metropolitan area).		locations are pin-pointed.
		Mervin Theron: Eskom
		Post-meeting note:
		See response above.
Enquired whether or not SiVEST and Eskom knew of the Comparative Supply and	Mr Alwin Malgas	It is a programme that was developed by the Department of Public
Development Programme.	Chairman: Independent Democrats	Enterprises and it is a programme for all state enterprises who are
	KSW 15 May 2009	obligated to comply with the programme. The aim of the programme is
		to develop local suppliers in South Africa to supply parts to the Eskom
		enterprises. This acts as an opportunity for job creation. Eskom has
		already signed to be in accordance with the programme and they will be
		audited. He then mentioned that he would make the Nuclear Policy
		Document available for people to read. He stated that the Nuclear Policy Document is on the Department of Minerals and Energy's
		website.
		Mervin Theron: Eskom
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