ENVIRONMENTAL IMPACT ASSESSMENT

ISSUES TRAIL (VERSION 1)

PROPOSED CONSTRUCTION OF A COMBINED CYCLE GAS TURBINE (CCGT) POWER PLANT IN THE AMERSFOORT AREA, MPUMALANGA PROVINCE

JUNE 2008

INDEX TO ISSUES IN THIS TABLE

- 1. LOCATION SITE COMMENTS AND CONCERNS
- 2. TIMEFRAME ISSUES

•

3. SOCIAL ISSUES AND COMMENTS

	Issue/Comment	Raised By	Response
	1. TEC	CHNICAL COMMENTS AND CONCERNS	
SCOPI	NG PHASE		
1.1	If the project will be located at the current Majuba power station	Mr. de Jager, Pixley Municipality Focus Group Meeting, Pixel ka Seme Local Municipality, 8 February 2008	A ten kilometer radius around the current Underground Coal Gasification was identified and that the ideal site will be determined through the environmental impact assessment and feasibility studies.
1.2	If the old mining site was considered and option	Mr. de Jager, Pixley Municipality Focus Group Meeting, Pixel ka Seme Local Municipality, 8 February 2008	The mining site has been identified as

	Issue/Comment	Raised By	Response
1.3	The amount of sites to be investigated for the	Mr. Gift Kgoebane, Pixley Municipality	Ten (10) sites were identified during
	proposed project	Focus Group Meeting, Pixel ka Seme Local	the screening exercise but six (6)
		Municipality, 8 February 2008	sites have resulted from the scoping
			phase. This result is because the
			other four (4) sites may be used for
			extension of the UCG operations in
			the future. At the end of the scoping
			phase, three (3) sites will be taken for
			specialist investigations in the EIA
			phase.
			At the end of the EIA phase, the
			specialist EIA studies will identify and
			highlight the preferred site in terms of
			environmental assessments. Mr.
			Bokwe further encouraged the
			attendants to engage the process by
			completing the registration form
			attached and sending it to Bohlweki
			Environmental, with their comments
			and concerns. All the comments
			regarding the project will be captured
			in an issues trail, and will inform the
			EIA process.
			Mr Tobile Bokwe, Eskom

Issue/Comment	Raised By	Response
Please would you ensure that the Scoping	Mr. Richard Worthington, Sustainable Energy	The usage of concentrating solar
Report provides for investigation of the options	and Climate Change Project Co-ordinator	power is being rigorously researched
for renewable energy hybrid / add-on to this	Earthlife Africa Jhb, Email, 11 March 2008	and developed in another proposed
plant, incl. using concentrated solar thermal		Eskom pilot project. Once proven as
energy to pre-heat air and thus improve the		a suitable technology for local
electricity output per unit of fossil fuel input;		application, additional concepts may
including the benefits for rates of emissions per		be investigated. The CSP systems
unit of output.		aimed at direct air heating are still
		under research and development
This should be covered and would provide a		internationally (i.e. the volumetric air
basis for appeal if it is not rigorously		receiver). As far as including a solar
investigated (i.e. not good enough to have some		thermal electric option is concerned,
sort of dismissive statement on status of the		the Integrated Solar Combined Cycle
technology).		System Concept calls for part of the
		heat recovery steam generator
		(HRSG) to be either replaced or
		paralleled by equipment serviced by
		solar thermal energy to supplement
		turbine exhaust gases.

Issue/Comment	Raised By	Response
Can you provide any justification for the fuel supply not being included in the ambit of this EIA?		This approach increases thermal energy input which produces more electrical output. However, this option will not be cost competitive with the initiative mentioned earlier in this response, hence the focus of Eskom's pilot project. The Amersfoort area is further considered as a moderate solar resource area within SA. DNI values for this area centre around 6kWh/m ² /day compared with values in excess of 8kWh/m ² /day in the Northern Cape.

Issue/Comment	Raised By	Response
It is our view that fuel supply impacts must be	Mr. Richard Worthington, Sustainable Energy	With regard to the justification for the
taken into account when assessing a power	and Climate Change Project Co-ordinator	fuel supply not being included in the
station.	Earthlife Africa Jhb, Email, 14 March 2008	ambit of this EIA, the combustible
		synthetic gas from the Underground
		Coal Gasification (UCG) plant in the
		Majuba area will be used as fuel for
		combined cycle gas turbine (CCGT)
		technology and potential co-firing with
		coal in the Majuba power station, thus
		the development of a UCG-CCGT
		power complex. The mining right for
		the UCG plant falls under the ambit of
		another application process required
		by the Minerals and Petroleum
		Resources Development Act (Act 28 of
		2002) and thus the power generation
		project only focuses on the CCGT
		plant component.

Issue/Comment	Raised By	Response
The BID is misleading in its contention that "first	Mr. Richard Worthington, Sustainable Energy	Bohlweki-SSI Environmental does
stage in the process of electricity production through the CCGT plant."	and Climate Change Project Co-ordinator Earthlife Africa Jhb, Email, 14 March 2008	agree that the information contained in the Background Information
The first stage is the underground gasification of		Document (BID) can be misconstrued;
coal, to produce gas to run the plant.		however, this comment should be
		placed in context. As the scope of our work is for the proposed development
		of the CCGT plant, the first stage in
		the process of electricity generation in
		the CCGT plant is through the gas turbine.

Issue/Comment	Raised By	Response
It is also disingenuous to make no reference to	Mr. Richard Worthington, Sustainable Energy	An additional comment indicated that
the location of the underground gasification of	and Climate Change Project Co-ordinator	no reference was made to the location
coal in consideration of project siting	Earthlife Africa Jhb, Email, 14 March 2008	of the UCG plant in consideration of
		the CCGT plant siting. During the
Please would you indicate the status of any		Screening Study, a 10km radius was
approval of the Underground Coal Gasification		demarcated (as this took into account
process to supply gas.		the distance of the gas pipeline from
		the UCG plant to the CCGT plant)
Please also confirm receipt of our submission		around the UCG plant and specialists
that all the opportunities for designing and		(hydrogeology, hydrology,
constructing the plant for hybrid use of		biodiversity, air quality, noise, visual
renewable energy to improve efficiency and		and risk) compiled a sensitivity map
reduce emissions factors need to be investigated		indicating ideal, acceptable and
within the EIA process.		sensitive areas within the study area
		that could accommodate the CCGT
		plant (see Appendix H of the revised
		Scoping Report for the full Screening
		Report).
		topol ().

Issue/Comment	Raised By	Response
		Ten sites were identified as being feasible sites for the construction of the CCGT plant. After further discussions with the Eskom project technical team, four sites were eliminated as they occur in areas above valuable coal resources earmarked for the future expansion of UCG operations. <i>Mr Malcolm Roods, Bohlweki</i>

Issue/Comment	Raised By	Response
Enquired why a gas turbine can not work	Mr. Eddie Deacon, landowner,	Indicated that this was determined by
throughout the night.	Focus Group Meeting, 06 March 2008	the pricing of fuel. Gas was operated
		at R250 per Megawatt. Gas-fired
		turbines are less expensive to operate
		than diesel or kerosene-fired turbines.
		Gas is a more affordable fuel.
		Eskom Team
Wanted to know whether energy saving light	Mr. Johan Deacon, landowner,	Eskom has currently embarked on an
globes were used by Eskom at the power	Focus Group Meeting, 06 March 2008	efficient lighting project to address
station.		this concern.
		Mr. Rudi van der Walt, Eskom

Issue/Comment	Raised By	Response
Enquired if the turbines will be located together or far apart.	Mr. Johan Deacon, landowner, Focus Group Meeting, 06 March 2008	It was indicated that the turbines will be located close together. It was indicated that sites 3a & b and site 1 is intended for the EIA and that the station requires a 100ha site for location.
Concerned that the proposed project could possibly cause acid rain. It further indicated that an air specialist will look at these concerns during the EIA and comment on it.	Mr. Johan Deacon, landowner, Focus Group Meeting, 06 March 2008	It was indicated that the GPN is less than 100 with the utilization of gas and this is much lower as for the current power stationIt was further indicated that an air specialist will look at these concerns during the EIA and comment on it. <i>Eskom & Bohlweki Project Team</i>

Issue/Comment	Raised By	Response
It was indicated that there are blue cranes in	Mr. Johan Deacon, landowner, Focus Group	It was indicated that this will be taken
the area that should be taken into consideration.	Meeting, 06 March 2008	up together with graves sites etc. He
		referred the attendees back to the list
		of specialist being used.
		Mr. Nico Gewers, Eskom
 Asked what the lifespan of the proposed plant	Mr. Johan van Niekerk, Department of Water	It was replied that the design of the
would be and if it is dependant on the coal	Affairs and Forestry (DWAF), Key	plant will be for 25 years. Currently
availability.	Stakeholder Workshop ,07 March 2008	Eskom could look at possibilities to
		extend the lifespan of the plant but
		the economic factors are also taken
		into consideration. He confirmed that
		the lifespan of the project is
		dependant on the coal availability.
		Mr. Morore Mashao, Eskom
		Generation
Enquired if the lifespan is completed, will the	Mr. Johan van Niekerk, Department of Water	It was indicated that the site
CCGT then be move to another site.	Affairs and Forestry (DWAF), Key	identified will be used for the power
	Stakeholder Workshop, 07 March 2008	plant only.
		Dr Mark van der Riet, Eskom

Issue/Comment	Raised By	Response
Asked if site one is owned by Eskom?	Mr. Neels du Toit, Department of Economic Development, Key Stakeholder Workshop, 07 March 2008	It was answered that Site 1 is the farm Palmietspruit and owned by a private land owner, but that sites 3a & b is owned by Eskom. <i>Ms Prashika Reddy, Bohlweki-SSI</i> <i>Environmental</i>
Asked if the proposed plant will be running peak hours only.	Mr. Neels du Toit, Department of Economic Development, Key Stakeholder Workshop 07 March 2008	Answered that the proposed power plant will be flexible to run 24hrs if needed. <i>Mr. Nico Gewers, Eskom</i>
Asked which criteria Eskom used to appoint specialists.	Mr Pieter Nortje, landowner Focus Group Meeting, 12 March 2008	Indicated that initially a tender goes out from Eskom. The environmental consultants then give out a scope of work for the specialist and then request a quote from the specialist. According to the quotes and experience the consultant appoint the most suitable specialist. <i>Mr Malcolm Roods, Bohlweki</i>

Issue/Comment	Raised By	Response
Indicated that he is concerned with regards to the Agricultural Research Council (ARC). He indicated that ARC is state owned and Eskom is a state owned entity so there would be no transparency in their studies and as a result their farms would not be evaluated accordingly. The suggestion is to use another independent specialist for agriculture.	Mr Pieter Nortje, Landowner, Focus Group Meeting , 12 March 2008	Acknowledged the comment and committed that it will be look into and addressed. <i>Mr Malcolm Roods, Bohlweki</i> It was indicated that although these are State Owned Entities (SOE), they will be used on a specialist capacity. They are registered specialists who could lose their status if biased. <i>Eskom Team</i>

Issue/Comment	Raised By	Response
	Raised By Ms Ria Beukes; landowner, Focus Group Meeting, 12 March 2008	ResponseIndicated that they need only 65 ha.Explained that only 65 hectares areneeded for one plant. However, howmuch land will be bought, is subjectto the land negotiations process.Mr Morore Mashao, Eskom
Highlighted that Palmietspruit and Strydkraal are joined and need to be bought together as they are seen as one agricultural unit and cannot be separated.		

	Issue/Comment	Raised By	Response
	Why Eskom does not allow municipalities generate their own electricity.	Dumisani, eZamokuhle Public meeting , 06 March 2008	It was answered that Eskom gets the mandate from the government. Municipalities can generate their own electricity but they must still sell it to Eskom. <i>Mr Nico Gewers, Eskom Generation</i>
		2. TIMEFRAME ISSUES	
SCOPI	NG PHASE		
2.1	When will the operation take place?	Mr. Vusi Maseko, CDW Focus Group Meeting, Pixley ka Seme Local Municipality, 8 February 2008	Plan is to have it operational within the next two years. <i>Mr. Morore Mashao, Eskom</i>

	Issue/Comment	Raised By	Response
2.2	When will the project start being functional	Mr Gift Kgoebane, Focus Group Meeting, Pixley ka Seme Local Municipality, 8 February 2008	Project has moved into a feasibility phase. At the moment, Eskom does not have exact details but by 2011 Eskom plans to have the first units of the project functional. <i>Mr. Morore Mashao, Eskom</i>

Issue/Comment	Raised By	Response
Issue/Comment Wanted to know as to when the construction of the power station will begin because one farm is still under a lease contract for three years.	Raised By Ms Ria Beukes, Focus Group Meeting ,Landowners, 12 March 2008	
		Mr Morore Mashao, Eskom

Issue/Comment	Raised By	Response
Remarked that the original gas project made use of coal and with regards to the timeframe why propose this new project.	Mr. Charles Hodsdon, landowner, 06 March	

	Issue/Comment	Raised By	Response
	3. SOCIAL &	SOCIO ECONOMIC ISSUES AND COMMENTS	
SCOPI	NG PHASE		
3.1	Job opportunities	Ms Mapaseka Madonsela, Executive Mayor Focus Group Meeting, Pixel ka Seme Local Municipality, 8 February 2008	The project has scope of work for manual workers, and the nature of the work involved does not cater for a huge number of jobs. However, there are a small number of people to be employed in the plant. In the year 2011 the numbers are anticipated to grow to 1000 as there would be higher labour requirements. The whole process of employment issues will be guided by the Accelerated Growth Initiative for South Africa (ASGISA). The contractor will also play a role in terms of employment. Mr. Morore Mashao, Eskom

	Issue/Comment	Raised By	Response
3.2	Emission gasses, what will happen to them	Focus Group Meeting, Pixel ka Seme Local Municipality, 8 February 2008	Minimize as much as possible. There is also a proposal to sell the gasses to the suppliers interested such as companies like Sasol or Afrox. The EIA studies will look into all environmental impacts. The environmental management plan will manage the impacts and suggest mitigation measures. <i>Mr. Morore Mashao, Eskom</i>
3.3	Stakeholder involvement, who are they	Mandla Shabangu, Community Development Worker Focus Group Meeting, Pixel ka Seme Local Municipality, 8 February 2008	provincial authority that has been
3.4	Impact on the agricultural industry	Mr Vusi Maseko, Focus Group Meeting, Pixel ka Seme Local Municipality, 8 February 2008	This aspect will be addressed during the EIA looking at the agricultural potential and suggesting mitigation measures. <i>Mr Nico Gewers, Eskom</i>

Issue/Comment	Raised By	Response
Mentioned that the area is the second highest polluted area in South Africa	Mr Leon Grove, Focus Group Meeting, Pixel ka Seme Local Municipality, 8 February 2008	Eskom is in constant contact with DEAT and are aware of the air quality issues in the area.
The venue for the meeting is too far. He was invited in a very short space of time. Who would pay for the cost he would incur? Not prepared to drive those roads that late as It was dangerous (infact the previous week there was an accident and people died).	Mr. Piet Venter, Landowner, 12 March 2008	<i>Mr Nico Gewers, Eskom</i> Mr. Piet Venter concerns were noted and it was indicated to him that minutes of the meeting will be sent to him and in future all correspondence will be in time as required by the law and the venue for the farmers meeting will be closer. The Majuba Power Station Lapa could be used for
The proposed project will help provide		landowners meetings. Comment Noted.

Issue/Comment	Raised By	Response
The project should look at Daggakraal because of poverty and lack of jobs.	Mr Thokozani S.A Mnisi , Vlakpoort, comment form, 12 March 2008	Certain job opportunities will be available for local people with certain skills. The contractor's will offer opportunities to local people. A formal structure will be formed working together with councilors to communicate project related issues. <i>Ms Sibongile Hlomuka, Bohlweki</i>
I would like to see the project creating job opportunities in the area of Amersfoort and surrounding area .Secondly, I wish to see the town of Amersfoort being developed and lastly will the project do something in connection with air pollution and help not to affect our communities.		

Issue/Comment	Raised By	Response
I support this project because it will decrease the rate of unemployment.	Miss Delisile Mathebula, Vlakpoort, comment form, 12 March 2008	Comment Noted
I wish to know to whether this project will require general workers or qualified individuals and the method that will be used to appoint people		Certain job opportunities will be available for local people with certain skills. The contractor's will offer opportunities to local people A formal structure will be formed working together with councilors to communicate project related issues. <i>Ms Sibongile Hlomuka, Bohlweki</i>
I would like to see development and job creation. I support this project so that the rate of unemployment will decrease.	Miss Rostah Mathebula, Amersfoort, comment form, 12 March 2008	The comment was <i>n</i> oted.

Issue/Comment	Raised By	Response
People who are taking part in these meetings should be given certificates to show that their attendance is appreciated.	Miss Ntombikayise Kubheka,member, Amersfoort, comment form, 12 March 2008	The purpose of inviting people to the meetings is to inform them about the proposed project. This consultation process is part of public participation which is required as part of the environmental studies to obtain authorization from the Department of Environmental Affairs and Tourism (DEAT). For these kind of meetings there are no certificates of attendance issued. The consultants keep the
		attendance record as prove of the meeting conducted and keep the record of attendees. <i>Ms Sibongile Hlomuka, Bohlweki</i>

Issue/Comment	Raised By	Response
Supervisor positions should be available for young people who have recently completed their courses because we are suffering to get tenders in our area. Opportunities for matriculants who have passed to be assisted with bursaries and training.	Mr.Mabhudi Veles Nkosi, Technical electrician, Comment form, 12 March 2008	Certain job opportunities will be available for local people with certain skills and maybe contractors will offer training to certain local people. Young people should be on the look out for bursaries advertised in newspapers. As the forum will be established for effective communication with the
		communities and information will be disseminated through the forum and be updated regularly. <i>Ms Sibongile Hlomuka, Bohlweki</i>
The project should not only focus on the individuals that are educated only, the less educated should also be considered	Mr Smanga ,Vlakpoort, comment form, 12 March 2008	The project will try to cater for people from all levels of education. It will depend on the positions available for certain levels.
Whether the proposed development will affect my property rights	Drie Susters Boerdery, landowner, Standerton. Comment & Registration Form.March 2008	The land was affected. Eskom did consult with them and have being informed about the project. They also signed the consent form.

Issue/Comment	Raised By	Response
The project will boost the economy and the	Shereena Mahabeer, Volksrust, Comment &	The comment was noted
employment rate	Registration Form. 12 March 2008	
Would like to subcontract for the project and	Mr. Stanley Motha , Vlakpoort, ,12 March	The tender opportunities will be
currently a manager for the public works	2008	advertised on the national newspapers
construction between Amersfoort and Daggakraal.		and all tenderes are welcome to submit
Specialise in concrete work, security, bridges,		their proposals and follow the necessary
building and plumbing		procedures.

Issue/Comment	Raised By	Response
I am in particular interested in the source of gas	Ms.Sharon Clark, Environmental Co-ordinator	Currently Bohlweki SSI is conducting
to be utilised for the plant. My current	BHP Billiton, Comment From 12 march 2007	the EIA studies for the proposed
understanding is this will be sourced via		project. The EMP will be drafted as part
Underground Coal Gasification - from which		of the study.
coal reserve will this take place i.e. who owns		
the mineral rights and has an EIA / EMP been		
undertaken for this?		
I would also like to know how the CCGT impacts		The proposed power station will supply
on the current Majuba Power station in so far as		the Majova Power Station will electricity.
its current coal supply.		
		Majova will continue to utilize the coal
Will it continue to utilise as per its current coal		and UCG will offer support in terms of
contracts or will these now be substituted by		supplying more electricity.
the UCG.		

Issue/Comment	Raised By	Response
How will the water quality of boreholes and streams be affected. Dealings with endangered mammals and corodylus lizard and blackcrane. Farming activities will be affected especially on Palmietspruit.	Mev. Hester van Loggerenberg , Drie Susters Boedery (BK), Comment & Registration Form, March 2008	

Issue/Comment	Raised By	Response
	Councillor OT Shabangu, Zamokuhle, C March 2008	6 The concerns should be directed to the Gert Sibande District. These are issues that are dealt with at the municipal level. The consultants are not in a position to assist in any of the questions.
Mpumalanga Legislature, it was indicated that government and Eskom are setting up a Provincial Energy Risk Management .How will this benefit the communities? As Eskom Management how possible will it be able to assist in electricity backlog and assist with free 50 kilowatts of electricity for the poor who still fail to access it as beneficiaries.		Ms Sibongile Hlomuka, Bohlweki
On a visit to South Africa by France President, he indicated that on agreement signed (Memorandum of Understanding) they will assist South Africa to build new power station, one in Mpumalanga and the other in Limpopo. Where exactly?		

Issue/Comment	Raised By	Response
Support the proposed project and hopes that there would be job opportunities created	Mr. Enoch Vilakazi, Volksrust, February 2008	The comment was noted.
Supervisory positions should be available for young people who have recently completed their studies. We suffer in terms of getting tenders in the area. Matriculants should be assisted with bursaries or trainings	Mr. Mabhudu Nkosi, Technical electrician ,Registration and Comment Form, 07 March 2008	The tender opportunities will be advertised on the national newspapers and all tenderers are welcome to submit their proposals and follow the necessary procedures. Any arising opportunities will be given to local people only if they qualify.
To improve economic utilization to share the land and ensuring that poverty in the society is reduced. People and the area should be developed. Generate energy with our natural resources	Mr. Welcome Mngomezulu, Daggakraal, Comment and Registration Form, March 2008	Comment and concerns noted.
Request for labour and consideration of unskilled skilled and semi skilled people. Job opportunities should be provided for people with matriculation as they cant further their studies because of financial problems.	Liphatsoana Edward Moloi, Traditional leader , Vlakpoort, March 2008	The project will try to cater for people from all levels of education. It will depend on the positions available for certain levels.

Issue/Comment	Raised By	Response
Owner of the farm Koppieskraal and concerned about the environment	Mr. Izak Fourie, Amersfoort, Comment & Registration Form, 01 March 2008	Environmental impact assessment studies are being curried out. Will choose the site with minimum environmental impact assessments. <i>Mr Malcolm Roods, Bohlweki</i>
	Mr. Charles Hodsdon Landowner, Focus Group Meeting,06 March 2008	The specialists will identify and study the total impact of the project and this will feed into the Environmental Impact Report to identify the preferred area. This research is undertaken according to legislation and studies will be taken in detail. <i>Mr. Nico Gewers, Eskom</i>

Issue/Comment	Raised By	Response
	BIOPHYSICAL ISSUES	
OPING PHASE		
	Mr Okkie Nortje, landowner, Focus Group Meeting, 12 March 2008	Answered that the EIA studies being undertaken by Bohlwek Environmental will include specialist studies that will specifically look at the impacts surrounding the proposed project on the environment. <i>Mr Malcolm Roods, Bohlweki</i>
	Mr. Piet Venter, landowner, Focus Group Meeting 12 March 2008	Indicated that the coal seams in the Majuba area are very dee underground and will have little affect above ground. <i>Mr Mike Beeslaar, Eskom</i>

Issue/Comment	Raised By	Response
Ms Ria Beukes; landowner, enquired whether	Ms Ria Beukes, landowner Focus Group	It was answered that the EIA will look
the project will have a positive or negative	Meeting, 12 March 2008	into the environmental impacts to
impact.		ensure minimum impact on the
		environment.
		Mr Malcolm Roods, Bohlweki

ENVIRONMENTAL IMPACT ASSESSMENT

ISSUES TRAIL (VERSION 2) – REVISED SCOPING STUDY

PROPOSED CONSTRUCTION OF A COMBINED CYCLE GAS TURBINE (CCGT) POWER PLANT IN THE AMERSFOORT AREA, MPUMALANGA PROVINCE

AUGUST 2008

INDEX TO ISSUES IN THIS TABLE

1.	TECHNICAL ISSUES AND COMMENTS	3
2.	EIA PROCESS ISSUES AND COMMENTS	4
3.	SOCIAL ISSUES AND COMMENTS	9
4.	BIOPHYSICAL ISSUES AND COMMENTS	11

•

	Issue/Comment	Raised By	Response
	1.	TECHNICAL ISSUES AND COMMENTS	
SCOPIN	IG PHASE		
1.1	The technical team was asked to explain the drilling of underground gases in more detail. What are the by-products after gasification?		Mr.MalcolmRoods(Bohlweki-SSIEnvironmental)explained the drilling process in more detail and also added that ash will be left underground after gasification.Mr.NicoGewers, further provided support in explaining the drilling process.
1.2	Are there any environmental issues that were identified anywhere in the country from using this technology?		<i>Mr. Tobile Bokwe (Eskom)</i> explained that after the burning process, reinforcement will be used to minimize any impacts.

	Issue/Comment	Raised By	Response		
	2. EIA PROCESS ISSUES AND COMMENTS				
SCOPI	NG PHASE				
2.1	Is the Environmental Impact Assessment process used as part of the Environmental Management Systems?	Mr. Thokozani Metiso, MDALA Focus Group Meeting, MDALA Offices, Ermelo, 24 July 2008	The first process is the Environmental Impact Assessment in preparation for the environmental authorisation, the second process will be implementation of the Environmental Management Systems in compliance with the Eskom SHE Policy and the ISO 14001 standards followed by Environmental Auditing. <i>Mr Nico Gewers, Eskom</i>		
2.2	Is the Environmental Impact Assessment really helping to minimize the impacts of the proposed project?	Mr. Thokozani Metiso, MDALA Focus Group Meeting, MDALA Offices, Ermelo, 24 July 2008	 Mr. Nico Gewers (Eskom) explained that the Environmental Impact Assessment process will be used together with the Environmental Management Plan to identify and minimize the impacts to arise from the proposed project. He mentioned that they will also be used during implementation of the Environmental Management Systems. Mr. Malcolm Roods (Bohlweki- SSI Environmental) further added that the Environmental Authorisation conditions, the Environmental Management System vill be used for monitoring from time to time. 		

	Issue/Comment	Raised By	Response
2.3	Eskom together with Bohlweki-SSI Environmental are welcome to approach MDALA for any assistance they might require. MDALA can help in linking the Environmental Management Plan and the Environmental Management Systems.		Comment noted. <i>Mr. Malcolm Roods (Bohlweki-SSI Environmental)</i> , explained that the applicant (Eskom) must ensure that the conditions of the ROD and EMP are complied with.
2.4	If the EMP and the EMS are not complied with, MDALA will issue a notice of non- compliance. Mr Metiso further enquired if both the surface water and groundwater, and wetland delineation studies will be done?	Mr. Thokozani Metiso, MDALA Focus Group Meeting, MDALA Offices, Ermelo, 24 July 2008	Mr. Malcolm Roods (Bohlweki-SSI Environmental), confirmed this by showing Mr Metiso the section of specialist studies from the presentation that both studies will be conducted, and indicated that these studies will be done during the EIA phase.
2.5	A site visit is requested in order to inspect the site.	Mr. Micheal Nyirenda, MDALA Focus Group Meeting, MDALA Offices, Ermelo, 24 July 2008	 Mr. Malcolm Roods, confirmed that Mr Nyirenda will be contacted for arrangements of the site visit. Mr. Malcolm Roods confirmed that the Scoping report is available for review in the Bohlweki website (www.bohlweki.co.za/library.php) or could be sent to anyone who is interested.

	Issue/Comment	Raised By	Response
2.6	Why are the two applications separated, and not treated as one process?	Mr. Thokozani Metiso, MDALA Focus Group Meeting, MDALA Offices, Ermelo, 24 July 2008	<i>Mr. Nico Gewers (Eskom)</i> explained that one process is an application for a mining permit/right and the other process is an EIA application.
2.7	What happens to Eskom's plan if one application is approved and the other application is not approved?		 <i>Mr. Tobile Bokwe (Eskom)</i> responded that since the two processes are still part of the planning process, none of the processes will start without approval of the other. <i>Mr. Nico Gewers (Eskom)</i> further explained that studies are conducted to assess the cumulative impacts such as air quality. He also mentioned that construction will not take place without the fuel source; he explained that the sustainability or the expected life span of the fuel source is taken into consideration.
2.8	The applications for Eskom projects are usually prioritized due to the energy crisis in the country. Which application would Eskom prefer to be prioritized?	Focus Group Meeting, MDALA Offices, Ermelo,	<i>Mr. Nico Gewers (Eskom)</i> explained that NEMA regulations are followed and he mentioned that they prefer to prioritize the two applications since they are linked.

	Issue/Comment	Raised By	Response
2.9	Issue/Comment Was the Scoping report submitted to MDALA? Is the impact study complete?	Raised By Mr. Micheal Nyirenda, MDALA Focus Group Meeting, MDALA Offices, Ermelo, 24 July 2008 Mr Oosthuizen, Landowner Focus Group Meeting, Eskom UCG Site, Amersfoort, 24 July 2008	ResponseMr.MalcolmRoods(Bohlweki-SSIEnvironmental)indicated that if requested, an electronic copy can be submitted. In addition, it was confirmed that Ms Prashika Reddy provided MDALA with a hard copy on 2 July 2008.MrMalcolmRoods(Bohlweki-SSI Environmental)Environmental)indicated that a Screening study was conducted to identify ten sites and this was then narrowed down to six sites that were assessed in the Scoping phase. From those six sites assessed according to social and environmental impacts, three sites were identified but these sites were not feasible from a technical point of view and thus another three sites where identified and used within the
2.11	Everything that needs approval by the landowners need to be translated into Afrikaans.	Mr Johan van Niekerk, Landowner Focus Group Meeting, Eskom UCG Site, Amersfoort, 24 July 2008	second round of the Scoping study and this is where the process currently is. The sites identified in the Scoping study will now undergo detailed studies in the environmental impact assessment phase. Comment and request noted.

	Issue/Comment	Raised By	Response
2.12	The Mpumalanga Department of Agriculture and Land Administration has no objection to the proposed project. However, after considering the draft revised Scoping Report, the following	5	Comments noted.
	must be included in the EIA Report: The result from the following specialist studies – hydrogeology, hydrology, soils and agricultural potential, wetlands and wetland delineation, air quality, noise, social and micro-economic, visual aspects and aesthetics, heritage, risk, traffic and geotechnical study.		
	In addition, Civil Aviation Authority approval is required for the proposed erection of the weather and communication mast and air quality monitoring station. The following permits should also be requested from relevant authorities before activities commence i.e. Water Use Licence from the Department of Water Affairs and Forestry, the APPA permits from DEAT, the mining licence for borrow pits from the DME.		

	Issue/Comment	Raised By	Response
	3. S	OCIO-ECONOMIC ISSUES AND COMMENTS	
SCOPI	NG PHASE		
3.1	What are Eskom's plan on empowerment and institutional processes?	Mr. Thokozani Metiso, MDALA Focus Group Meeting, MDALA Offices, Ermelo, 24 July 2008	Eskom has an 'Eskom Development Foundation (ESDEF)', which is an institution that identifies and addresses (some of) the needs of the communities in which Eskom undertakes projects, in terms of corporate social responsibility Mr Nico Gewers, Eskom
3.2	What is the expected job creation from the project, and does Eskom have a form of training to offer to the local community for the required skills.	Focus Group Meeting, MDALA Offices, Ermelo,	<i>Mr. Nico Gewers (Eskom)</i> mentioned that the expected number of jobs to be created is between 500 to 600. He also mentioned that it is early to elaborate on the training but it has been taken into consideration. <i>Mr. Tobile Bokwe (Eskom)</i> further added that jobs are expected to be created.
3.3	It will be a good thing if training is taken into consideration since local community members always complain about not getting jobs from local projects. Local government also complains about companies not offering the transfer of skills.	Focus Group Meeting, MDALA Offices, Ermelo, 24 July 2008	Comment noted.

	Issue/Comment	Raised By	Response
3.4	The impact on the landowner will only be understood later on in the process, will my property be affected and will there be construction etc?		<i>Mr Malcolm Roods (Bohlweki-SSI</i> <i>Environmental)</i> assured Mr van Niekerk that the project footprint will be smaller than the Majuba Power Station. The project needs 100 ha that will include pipelines, access roads, and other associated infrastructure. The EIA process will determine where this will be. <i>Mr Nico Gewers (Eskom)</i> further indicated that the technology used for this project is more compact and that there is no need for ash dams as gas is used as a fuel source.
3.5	Please elaborate on the compensation for landowners.	Mr Oosthuizen, Landowner Focus Group Meeting, Eskom UCG Site, Amersfoort, 24 July 2008	<i>Mr Kritesh Bedessie (Eskom)</i> responded that a professional evaluator will be evaluating the property, taking into consideration access and current activities and then a negotiation process between the landowner and Eskom will be engaged.
3.6	Is compensation provided per hectare or per volume gas that Eskom will be removing and what will happen to the property of the landowner that is affected?	Mr Oosthuizen, Landowner Focus Group Meeting, Eskom UCG Site, Amersfoort, 24 July 2008	<i>Mr Kritesh Bedessie (Eskom)</i> indicated that compensation is done per hectare but that the sustainability of the property after 100 hectares were extracted is taken into account.

	Issue/Comment	Raised By	Response
	4.	BIOPHYSICAL ISSUES AND COMMENTS	
SCOPI	NG PHASE		
4.1	Has any research been done on acid rain?	Mr Johan van Niekerk, Landowner Focus Group Meeting, Eskom UCG Site, Amersfoort, 24 July 2008	<i>Mr Malcolm Roods (Bohlweki-SSI</i> <i>Environmental)</i> indicated that an air quality specialist was appointed to do the modeling and will be investigating acid rain. Currently the scoping study indicates that it is predicted that the project will have less of an air pollution impact because gas is used as opposed to the use of coal. However during the environmental impact phase more detailed modeling will be conducted that will take into account the emission gases, the prevailing wind and all factors that are indicators of and/or contribute to air quality.

4.2	Concern regarding ammonia.	Ms Ria Beukes, Landowner	Mr Nico Gewers (Eskom) responded that
		Focus Group Meeting, Eskom UCG Site,	the formation of acid rain was more
		Amersfoort, 24 July 2008	prevalent/likely in areas with high rainfall
			as in Europe and that South Africa was
			relatively dry in comparison. In the Cape
			Town area, Eskom is operating an Open
			Cycle Gas Turbine power station (Ankerlig),
			and power plant emissions are monitored
			due to the wet circumstances in the Cape.
4.3	A comment was made that the	Mr Johan van Niekerk, Landowner	Mr Malcolm Roods (Bohlweki-SSI
	Amersfoort area has the highest rainfall	Focus Group Meeting, Eskom UCG Site,	<i>Environmental)</i> indicated that the
	containing acid in the country, and	Amersfoort, 24 July 2008	legislation requires the specialists to take
	added that Sasol in Secunda has an		cumulative circumstances into account and
	effect on the conditions in Amersfoort.		measure the cumulative impact.
			Mr Mike Beeslaar (Eskom) stated that this
			technology produces far less acid rain (SO _x
			and NO _x) emissions.

4.4	There is a lot of rust present and with the	Ms Ria Beukes, Landowner	Mr Mike Beeslaar (Eskom) indicated that
	gas being produced; will there not be the	Focus Group Meeting, Eskom UCG Site,	under the research portion they (Eskom)
	same amount of ammoniac released? And	Amersfoort, 24 July 2008	were using a evaporation pond to collect
	will this have a negative effect on the		by-products. The ammonia is water-
	plants?		soluble and evaporates from the
			evaporation pond. The ammonia will not
			necessarily contribute to or cause some
			amount of rusting as a result of the low
			levels. The future plant will include a
			purifying plant and will reduce emissions.
			Currently there is a small odour from the
			evaporation process that could be smelled
			in the surrounding areas depending on
			wind direction. The levels have been
			measured and are below the recommended
			daily exposure limits.
			Mr Mike Beeslaar indicated that it should
			not have an affect in the small quantities at
			which it is being evaporated.
			which it is being evaporated.

	He further indicated that ammonia is used
	in fertiliser products and sees no real harm
	in the low levels being emitted.