

Comments and Responses 1607 Kelvin Power Station CCGT EIA WULA

Itumeleng Mphake

Date 2024/09/18 Method Email

Comment

Dear Joleen Webber Ref: 1607/JP/jw I trust that you are well. The above refers. May you please register the following email addresses as Interested and Affected Parties (I&APs): ***@cer.org.za ***@cer.org.za ***@cer.org.za ***@cer.org.za ***@cer.org.za ***@cer.org.za ***@cer.org.za ***@cer.org.za ***@cer.org.za Kindly confirm their registration. Thanks and kind regards

Response

Good day, Thank you for your email. We have registered the email addresses as I&APs for the Kelvin Power Station CCGT Plant project as per your request. Please note that the review period for the draft EIA Report has ended, however, as registered I&APs you will be notified of the decision.

Date 2024/09/18 Method Email

Comment

Thank you Jolene, this is noted. Kind regards

Response

EIMS noted the response as acknowledgment of receipt of the previous email.

Mr Hermanus Steyn

Date 2024/02/27 Method Email

Comment

Good Day Jolene May I please be added to the I&AP register?

Response

Good day, Thank you for your email and interest in the project. We have registered you as an Interested and Affected Party (I&AP) on this project for further communications regarding the project. All comments received from I&APs are recorded and addressed in the relevant environmental reports and are considered by the competent authority to ensure that a well-informed decision is made. Please feel free to contact EIMS should you have any comments/queries regarding this project.

Date 2024/03/04 Method Email

Comment

Thank you Jolene

Response

EIMS noted the response as acknowledgement of receipt of the previous email.

Renee Mott

Date 2024/02/15 Method Email

Comment

Good Day I would like to be registered as an interested and affected part to the above matter being considered at Kelvin Estate. I am a community member of Croydon and have been

Response

Good day, Thank you for your email and interest in the proposed Kelvin Power Station Combined Cycle Gas Turbine Plant project. We have registered you as an Interested and Affected Party

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Renee Mott

staying there for 19 years. (*[Address]*) Should you require any additional information, please let me know. Kind Regards

(I&AP) on this project for further communications regarding the project. All comments received from I&APs are recorded and addressed in the relevant environmental reports and are considered by the competent authority to ensure that a well-informed decision is made. Please feel free to contact EIMS should you have any comments/queries regarding this project.

Amukelani Shiburi

Date 2024/03/08 Method Email

Comment

Good day Kindly receive the attached confirmation letter for your attention. Regards

Response

EIMS noted the email as a response to the enquiry sent to DALRRD on 4 March 2024.

Date 2024/03/08 Method Other

Comment

LAND CLAIMS ENQUIRY - PORTION 391 (REMAINING EXTENT) OF THE FARM ZUURFONTEIN 33, REG DIV IR, GAUTENG We refer to your land claim enquiry dated 04 March 2024. We confirm that there is/are an existing land claims against the Property/ies. The claims were lodged as per attached list. The claim was lodged in terms of the Restitution of Land Rights Amendment Act, 2014 (Act No 15 of 2014) ("the Amendment Act") which, amongst others, reopened the lodgement of claims for a period of five years. The validity of the Amendment Act was challenged in the Constitutional Court. The Constitutional Court found the Amendment Act to be invalid because of the failure of Parliament to facilitate public involvement as required by the Constitution. The Amendment Act ceased to be law on 28 July 2016. The Constitutional Court ordered that the claims that were lodged between 1 July 2014 and 27 July 2016 are validly lodged, but it interdicted the Commission from processing those claims until the Commission has finalised the claims lodged by 31 December 1998 or until Parliament passes a new law providing for the re-opening of lodgement of land claims, Parliament was given until 27 July 2018 to pass such a law. Parliament has so far not been able to pass new legislation and has instead approached the Constitutional Court for an extension until 29 March 2019 and the application was rejected. As a result the Commission will, unless directed otherwise by Constitutional Court, not be processing claims lodged between 1 July 2014 until 27 July 2016 until all the claims lodged on or before 31st December 1998 are finalised and or a new Act is passed by Parliament and signed into law by the President. In the meantime, the Commission through the Chief Land Claims Commissioner has been ordered to report the progress of all the outstanding land claims on six months basis for monitoring by the court. The Commission will contact you directly and communicate widely once we have been granted permission to begin dealing with these claims.

Response

EIMS noted the Land Claims Enquiry response letter from DALRRD.

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Ms Natalie Koneight

Date 2024/02/19 Method Email

Comment

Good day Jolene, Can you please provide Rand Water with the shape files (kmz format), Locality Map and Application, in order to determine if Rand Water will be affected. @*** (for information only) Regards

Response

Good day, Thank you for your email. Kindly find the attached KMZ of the site area as well as the Locality Map, as requested. Please note that the Environmental Authorisation (EA) application forms are still being compiled and are not available at this stage. Should you have any further comments/queries regarding this project, please feel free to contact EIMS.

Date 2024/03/05 Method Email

Comment

Good Day Jolene, Please note that Rand Water services are Not Affected by this proposal. See attached "Not Affected" stamp on your letter. @*** (for your info only) Regards

Response

Good day, Thank you for confirming that Rand Water services are not affected by the proposed project.

Date 2024/08/20 Method Email

Comment

Good Day Jolene, "Kindly note that Rand Water is now processing wayleave applications on an online web-based system. From here going forward please send your applications on the online web-based system to allow Rand Water to review and process your applications. To utilize the system and continue sending Rand Water your wayleave applications you will need to register and set up a profile on the following URL address; <https://wayleave.randwater.co.za/> Should you require assistance with registration or encounter any problems on the online system please contact the team to schedule a MS teams meeting with ***(***, ***) or one of the pipeline protection team members to assist." @***(for your info only)

Response

Good day Natalie, Thank you for your email. Kindly note that the intention of our notification is not for a wayleave application, rather to notify all Interested & Affected Parties of the availability of the draft EIA report for public review and comment. I have also attached your previous email stating that Rand Water is not affected by the proposed Kelvin Power Station CCGT Plant project. Please feel free to contact EIMS should you have any further comments regarding this project.

Tebego Kgaphola

Date 2024/03/26 Method Email

Comment

Dear Sir/Madam DFFE Directorate: Biodiversity Conservation hereby acknowledge receipt of the invitation to review and comment on the project mentioned on the subject line. Kindly note that the project has been allocated to Mrs *** and Ms *** (Copied on this email). In addition, kindly share the shapefiles of the development footprints/application site with the Case Officers. Please note: All Public Participation Process documents related to Biodiversity EIA review and any other Biodiversity EIA queries must be submitted to the Directorate: Biodiversity Conservation at Email: *** for attention of Mr ***

Response

Good day, Thank you for your email. We have registered Mrs ***, Ms *** and Mr *** as Interested & Affected Parties (I&APs) for further communication regarding the project. Kindly find the attached Google Earth file (KMZ) of the site. Please feel free to contact EIMS should you have any further requests or comments/queries regarding this project.

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Tebego Kgaphola

Date 2024/08/19 Method Email

Comment

Dear Sir/Madam DFFE Directorate: Biodiversity Conservation hereby acknowledge receipt of the invitation to review and comment on the project mentioned on the subject line. Kindly note that the project has been allocated to Mrs *** and Ms *** (Copied on this email). In addition, kindly share the shapefiles of the development footprints/application site with the Case Officers. Please note: All Public Participation Process documents related to Biodiversity EIA review and any other Biodiversity EIA queries must be submitted to the Directorate: Biodiversity Conservation at Email: *** for attention of Mr ***

Response

Good day, Thank you for your email. Kindly note that this project is in the EIA phase. Ms P Makitla has previously provided comments on the Draft Scoping Report for this project. Ms ***, Ms *** and Mr *** have been registered as Interested & Affected Parties for this project. The Draft EIA Report and associated Public Participation documents are available on the EIMS public participation website: <https://www.eims.co.za/public-participation/> Kindly be reminded that all comments on the Draft EIA Report are to be submitted by 16 September 2024. Please feel free to contact EIMS should you have any comments/queries regarding this project or should you require further information

Mr Mpho Ratshisusu

Date 2024/02/15 Method Email

Comment

Good day, On behalf of the Director-General, Dr Sean Phillips, this email serves to acknowledge receipt of your correspondence below which will receive the necessary attention by the Department of Water and Sanitation (DWS). Kindest regards Central Point

Response

Good day, Thank you for the acknowledgement of receipt of our notification for this project.

Date 2024/03/15 Method Email

Comment

Good day, On behalf of the Director-General, Dr Sean Phillips, this email serves to acknowledge receipt of your correspondence below which will receive the necessary attention by the Department of Water and Sanitation (DWS). Kindest regards Central Point

Response

EIMS noted the response as acknowledgement of receipt of the Draft Scoping Report Availability and Public Open Day notification.

Date 2024/08/16 Method Email

Comment

Good day, On behalf of the Director-General, Dr Sean Phillips, this email serves to acknowledge receipt of your correspondence below which will receive the necessary attention by the Department of Water and Sanitation (DWS). Kindest regards Central Point

Response

EIMS noted the email as acknowledgement of receipt of the Draft EIA Report notification.

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Fundiswa Ndaba

Date 2024/02/15 Method Email

Comment

Good day Kindly be specific is this a notification or a land claim enquiry?

Response

Good day, Thank you for your email. Your assistance in providing information regarding land claims on the property for the proposed project, as per your email received (19/02/2024), is appreciated. This email also serves to inform you that you remain registered as an Interested and Affected Party (I&AP) for this project for further communications regarding this project. You will be notified once the Scoping and EIA reports are available for public comment and review. Please feel free to contact EIMS should you have any comments/queries regarding the proposed Kelvin Power Station CCGT project.

Date 2024/02/19 Method Other

Comment

LAND CLAIMS ENQUIRY - REMAINING EXTENT OF PORTION 391 ZUURFONTEIN 33 REG DIV IR GAUTENG We refer to your land claim enquiry dated 14th February 2024. We confirm that there is/are an existing land claims against the Property/ies. The claims were lodged as per attached list. The claim was lodged in terms of the Restitution of Land Rights Amendment Act, 2014 (Act No 15 of 2014) ("the Amendment Act") which, amongst others, reopened the lodgement of claims for a period of five years. The validity of the Amendment Act was challenged in the Constitutional Court. The Constitutional Court found the Amendment Act to be invalid because of the failure of Parliament to facilitate public involvement as required by the Constitution. The Amendment Act ceased to be law on 28 July 2016. The Constitutional Court ordered that the claims that were lodged between 1 July 2014 and 27 July 2016 are validly lodged, but it interdicted the Commission from processing those claims until the Commission has finalised the claims lodged by 31 December 1998 or until Parliament passes a new law providing for the re-opening of lodgement of land claims. Parliament was given until 27 July 2018 to pass such a law. Parliament has so far not been able to pass new legislation and has instead approached the Constitutional Court for an extension until 29 March 2019 and the application was rejected. As a result the Commission will, unless directed otherwise by Constitutional Court, not be processing claims lodged between 1 July 2014 until 27 July 2016 until all the claims lodged on or before 31st December 1998 are finalised and or a new Act is passed by Parliament and signed into law by the President. In the meantime, the Commission through the Chief Land Claims Commissioner has been ordered to report the progress of all the outstanding land claims on six months basis for monitoring by the court. The Commission will contact you directly and communicate widely once we have been granted permission to begin dealing with these claims.

Response

Good day, I hope this message finds you well. Thank you for providing the correspondence regarding the land claim for Zuurfontein Farm 33-IR. I would like to kindly request clarification on the specific farm portions of the listed land claims, particularly if any of them intersect with the designated site for the Kelvin Power Station - Portion 391 R/E. Additionally, could you please provide a Locality Map illustrating the boundaries of the land claims. Attached is a map outlining the proposed project location for your reference. Thank you.

Comments and Responses 1607 Kelvin Power Station CCGT EIA WULA

Fundiswa Ndaba

Date 2024/02/19 Method Email

Comment

Good day Kindly receive the attached land claim confirmation letter for your attention.

Response

EIMS noted the response and replied to the I&AP in their first correspondence.

Date 2024/03/05 Method Email

Comment

Good day Please note that you need to liaise with the officials mentioned on the letter I have sent to you for further information.

Response

EIMS noted the response as part of internal correspondence after DALRRD received the email from EIMS dated 4 March 2024.

Date 2024/08/19 Method Email

Comment

Morning Kelvin Is this a land claim enquiry or just a notification?

Response

Good day, Kindly note that the intention of our notification is to notify DALRRD of the availability of the Draft EIA Report for public review and comment, and the scheduled Open Day for the proposed Kelvin Power Station CCGT Plant, in the Ekurhuleni Metropolitan Municipality, as part of the Public Participation Process for this project. The notification is not a land claim enquiry.

Mr John Geeringh

Date 2024/02/16 Method Email

Comment

Please keep me informed regarding the progress of this application. Please send me a KMZ file indicating the proposed development areas. Kind regards

Response

Good day, Thank you for your email and interest in the project. We have registered you as an Interested and Affected Party (I&AP) on this project for further communications regarding the project. All comments received from I&APs are recorded and addressed in the relevant environmental reports and are considered by the competent authority to ensure that a well-informed decision is made. You will be notified once the Scoping and EIA reports are available for public comment and review. Kindly find the attached KMZ of the site area. Please feel free to contact EIMS should you have any comments/queries regarding this project.

Onalenna Mokoena

Date 2024/02/16 Method Email

Comment

Good day, I hope this email finds you well. I just want to find out if will the proposed Kelvin

Response

Dear Onalenna, Thank you for your email. At this stage there are no expected impacts on

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Onalenna Mokoena

Power Station Combined Cycle Gas Turbine Plant, in the Ekurhuleni Metropolitan Municipality affect Transnet's railway infrastructure.

Transnet's railway infrastructure as a result of the project. Please find the attached KML file and locality map of the application area – kindly confirm whether the project overlaps with any of Transnet's infrastructure. This email also serves to inform you that you have been registered as an Interested and Affected Party (I&AP) for this project for further communications regarding this project. You will be notified once the Scoping and EIA reports are available for public comment and review. Please feel free to contact EIMS should you have any comments/queries regarding the proposed Kelvin Power Station CCGT project.

Thami Hadebe

Date 2024/02/14 Method Email

Comment

Please furnish BID.

Response

Good day, Thank you for your email. Kindly find the attached Background Information Document for this project.

Date 2024/02/21 Method Email

Comment

Dear Ms Webber Your wayleave application/BID dated 21 February 2024 has reference. Transnet Pipelines, a division of Transnet SOC Limited, is not affected by the proposal. Your awareness of the existence of Transnet's pipeline servitudes and concern for their integrity is highly appreciated. This authorisation shall be valid for 48 months from the date - 21 February 2024. Yours Sincerely

Response

Good day Mr Hadebe, Thank you for your email. Thank you for confirming that Transnet Pipelines is not affected by the proposed Kelvin Power Station CCGT project.

Date 2024/03/15 Method Email

Comment

Dear Ms Webber Your wayleave application with project reference number 1607/JP/jw dated 15 March 2024 has reference. Transnet Pipelines, a division of Transnet SOC Limited, is not affected by the proposal. Your awareness of the existence of Transnet's pipeline servitudes and concern for their integrity is highly appreciated. This authorisation shall be valid for 48 months from the date - 15 March 2024.

Response

EIMS noted the response from Transnet Pipelines confirming that they are not affected.

Date 2024/08/16 Method Email

Comment

Dear Ms Webber Your wayleave application with project reference number 1607/JP/jw dated

Response

EIMS noted the response from Transnet that Transnet Pipelines is not affected by the proposed

Comments and Responses 1607 Kelvin Power Station CCGT EIA WULA

Thami Hadebe

16 August 2024 has reference. Transnet Pipelines, a division of Transnet SOC Limited, is not affected by the proposal. Your awareness of the existence of Transnet's pipeline servitudes and concern for their integrity is highly appreciated. This authorisation shall be valid for 48 months from the date – 16 August 2024. Yours Sincerely Mr MT (Thami) Hadebe Tel: ***

development.

Ms Ntshepiseng Zama Moloi

Date 2024/08/22 Method Email

Comment

Good day, Kindly be advised that I do not deal with the EAI processes. Please forward same to Mr *** at ***@gauteng.gov.za Kind regards

Response

Good day Miss Moloi, Thank you for your email. Kindly note that we have deregistered you (***) from our list of Interested & Affected Parties (I&APs) and you will no longer receive communications regarding this project. ***@gauteng.gov.za has been registered as an I&AP.

Shalden Deno Classen

Date 2024/02/14 Method Telephone

Comment

The I&AP called after having received an SMS notification regarding the project. The I&AP indicated that they are an adjacent landowner and requested more information about the project. The I&AP provided their email address for further information regarding the project.

Response

EIMS followed up on the I&AP's request with the following email: Good afternoon, Thank you for contacting EIMS regarding the proposed Kelvin Power Station Combined Cycle Gas Turbine Plant project notification that you received. As per our phone call, please find the attached initial notification letter and background information document regarding the project. Please note that no additional information is available yet as the relevant environmental reports are currently being drafted. You will be notified once they are made available for public review and comment. This email also serves to confirm that you are registered as an Interested and Affected Party (I&AP) for further communications regarding the project as part of the project's Public Participation Process. All comments received from I&APs are recorded and addressed in the environmental reports and considered by the competent authority to ensure that a well-informed decision is made. Please feel free to contact EIMS should you have any queries/comments regarding the project.

Dr Denver Fredericks

Date 2024/02/14 Method Email

Comment

Dear Jolene I have been made aware the the pending processes and keen to be further

Response

Good day, Thank you for your interest in the project. Please note that we are still in the early

Comments and Responses 1607 Kelvin Power Station CCGT EIA WULA

Dr Denver Fredericks

enlightened on project and stratagem. Notification: Proposed Kelvin Power Station Combined Cycle Gas Turbine Plant, Ekurhuleni Metropolitan Municipality, Gauteng. Kelvin Power (Pty) Ltd has appointed EIMS to undertake the Environmental Authorisation processes. If you are interested/affected, please contact Jolene; Thank you for your indulgence

stages of the Environmental Impact Assessment (EIA) process and detailed studies are still being completed. You will be notified once the Scoping and EIA reports are available for public comment and review. Kindly find the attached Background Information Document. Please feel free to contact EIMS should you have any comments/queries regarding this project.

Simon James Lapping

Date 2024/02/15 Method Telephone

Comment

The I&AP called regarding the Call to Register notification that was received. The I&AP indicated that they are the ward councillor and Chair of the Kelvin Homeowner's Association and asked that a presentation be held for the residents to explain the project.

Response

EIMS did not receive further communication from the I&AP.

Date 2024/08/26 Method Telephone

Comment

EIMS called the I&AP to confirm whether they had received the notification regarding the Draft EIA Report Availability and the Public Open Day. The I&AP confirmed that they received the notification and requested that an infographic be provided so that he may share it with the community. The I&AP clarified that an infographic would be helpful to explain what the project is about for people who might want to attend the Open Day.

Response

Good day Simon, Thank you for taking our call earlier. Please find attached a copy of the notification regarding the availability of the Draft EIA Report and scheduled Open Day for the proposed Kelvin Power Station Combined Cycle Gas Turbine Plant, in the Ekurhuleni Metropolitan Municipality, Gauteng. Kindly note that a copy of the Background Information Document (BID) has also been included in the provided PDF that provides a brief overview of the proposed project as per your request. Please feel free to contact EIMS should you have any queries/comments regarding this project or should you require any additional information.

Lerato Selolo

Date 2024/02/14 Method Email

Comment

Good day Notice received, when the DRAFT BASIC ASSESSMENT is ready kindly send the Hardcopy and soft copy in a USB to ****.

Response

Good day, Thank you for your email. Kindly note that this is an Environmental Impact Assessment process, you will be notified once the Draft Scoping Report is available for public review. We will send the Hardcopy and soft copy (in a USB) of the Draft Scoping Report to you once the report is available, as per your request. Please feel free to contact EIMS should you have any comments/queries regarding this project.

Date 2024/03/19 Method Email

Comments and Responses 1607 Kelvin Power Station CCGT EIA WULA

Lerato Selolo

Comment

Good day Notice received, when the DRAFT BASIC ASSESSMENT is ready kindly send the Hardcopy and soft copy in a USB to ***.

Date 2024/08/19 Method Email

Comment

Good Morning Kelvin Kindly see the attached response to this application and kindly send the hard copy of this application to our offices please. [Attached response]: Good day Notice received, when the DRAFT BASIC ASSESSMENT is ready kindly send the Hardcopy and soft copy in a USB to ***.

Date 2024/08/20 Method Email

Comment

Good day The application has been received.

Response

Good day, Thank you for your email. Kindly note that we have couriered a hard copy of the Draft Scoping Report to your address. Kindly confirm if you have received the hard copy of the report?

Response

Good day Lerato, Kindly note that we have couriered a copy of the Draft EIA Report to your address as to your request. Please confirm when you have received the report.

Response

EIMS noted the confirmation of receipt of the report.

Thompson Nzimande

Date 2024/08/27 Method Other

Comment

In support of the project. There's a shortage in term of supplying the demand of electricity.

Response

The I&APs comments are duly noted.

Celeste Visser

Date 2024/02/14 Method Email

Comment

Good day, Please remove me from your mailing list. I no longer live there. Thank you,

Response

Good day, Thank you for your email. We have deregistered your details from this project's Interested and Affected Parties contact list and you will no longer receive communications regarding this project, as per your request.

Hilda Nienaber

Date 2024/08/16 Method Email

Comment

Response

Comments and Responses 1607 Kelvin Power Station CCGT EIA WULA

Hilda Nienaber

Good day Jolene, I trust you and your team are well. Thank you for the attached notification. How will this impact the residential houses on Kelvin Estate? I'm assuming the ecological impact will be better for the environment too?

Good day Hilda, Thank you for your email and interest in the proposed Kelvin Power Station CCGT Plant project. Kindly refer to the draft EIA report for an assessment of all project related impacts and benefits. A copy of the report is available on the EIMS website at <https://www.eims.co.za/public-participation/>. The Air Quality specialist concluded that the proposed CCGT Power Plant has lower air quality impacts than the existing coal fired power station (Station B) and will provide an improvement on air quality in the area compared to the coal fired power station it is replacing. Regarding your query on the impact on houses at the Kelvin Estate, kindly note that the proposed CCGT plant will be located at the previous A-station location within the Kelvin power station property, which has been decommissioned. Please refer to the EIA report for various maps showing the location of the project. We trust that this answers your query, however, please feel free to contact EIMS should you have any further queries/comments regarding this project.

Louisa Smalberger

Date 2024/02/14 Method Email

Comment

Could you please be so kind and remove my email address from your list? I do not have any interest in this matter. Kind regards / Vriendelike groete

Response

Good day, Thank you for your email. We have deregistered your details from this project's Interested and Affected Parties contact list and you will no longer receive communications regarding this project, as per your request.

Gary Thomas

Date 2024/08/27 Method Other

Comment

1. RESIDENTS CONCERNS ON WATER MANAGEMENT IMPACTING LOCAL RIVERS. 2. AIR POLLUTION AFFECTING LOCAL RESIDENTS. 3. OPEN DAY – VERY PROFESSIONAL & INFORMATIVE

Response

The I&AP had attended the EIA Phase Open Day and had raised the comments/queries during the tour. The EAP had addressed each comment during the tour as follows: 1. "RESIDENTS CONCERNS ON WATER MANAGEMENT IMPACTING LOCAL RIVERS." The EAP explained that a Water Use Licence (WUL) process for release of heated water and effluent was in process. The plant entails a water treatment plant, the water will be released in accordance with the limits set in the WUL licence. Lavhe explained that Kelvin are constantly monitoring their releases in the Modderfontein spruit. Lavhe indicated that it is a closed system and that not all water will be released, only when water is in excess will it be released and that water is often much cleaner. 2. "AIR POLLUTION AFFECTING LOCAL RESIDENTS." The EAP indicated the emissions shown on the maps on the posters under Scenario 1 (normal operations assuming MES where exhaust gas goes through the main stacks) showing the simulated annual average ground level concentrations

Comments and Responses 1607 Kelvin Power Station CCGT EIA WULA

Gary Thomas

of NO2, Particulate Matter and SO2. The Air Quality should improve compared to the current baseline emissions. 3. "OPEN DAY – VERY PROFESSIONAL & INFORMATIVE" The I&APs comment is duly noted.

Dr Gwen Theron

Date 2024/04/17 Method Email

Comment

Dear Jolene, I on behalf of JT Group wish to provide feedback on the draft scoping that has been made available for comment. The proposal is 100% contradicting the commitment of South Africa to move away from fossil fuel towards clean energy/. This fact in itself is a 100% fatal flaw of the project. The regulations in South Africa may allow the development of new fossil fuel plants, but if it is in contravention of the governmental commitment to clean energy – it must be questioned at the highest level. It is submitted that the provisions of the Gauteng Pollution Buffer Zones Guideline, dated March 2017 must be taken into account in the submission and must consider the prescribed distance that any polluting facility must be located from any residential areas. The residential areas have been in the area for many years and have been subject to the polluting impacts of the Kelvin Power station for the same period. Two wrongs do not make a right. The base line, ambient air quality studies must be provided, and the current and potential health-related impacts must be indicated. The Air quality cannot only indicate concentrations and dilution factors, it must look at historic and future health impacts. Detail assessments must be provided of both human, bird and animal impacts. Potential water and soil pollution. Extensive research has been done and it has been proven unconditionally that power plants can't be located inside built-up areas. And that the potential pollution cannot be adequately mitigated. The risks to all live forms are simply too high. The Environmental health specialist MUST be appointed on the specialist team – it is not good enough to only investigate the aspects identified in the BID. Furthermore, construction of the plant cannot overshadow the operational aspects and the storage of large quantities of GAS on the premises or the transportation of the gas via pipelines or tankers. The movement corridors and storage facilities must be investigated and the impact assessment cannot be restricted to the site alone. These must be thoroughly investigated. The source of the Gas must also be provided and potential impacts at the source must be identified and investigated. • Air Quality Assessment ; - must include health impacts • Socio-economic Assessment; What is the brief that will be provided to the specialist - • Climate change Study; this must include carbon emissions and the carbon tax that wil be paid by the installation • Noise Assessment; must include health impacts • Heritage (including palaeontology) Assessment; - will the facility not be located on an existing industrial site – provide DFFE Scening results • Major Hazard

Response

Good day, Thank you for your email. Your comments are duly noted and will form part of the Public Participation Process for the Kelvin Power Station CCGT project. Kindly find the attached response to your comments. Please feel free to contact EIMS should you have any further comments/queries regarding this project.

Dr Gwen Theron

Installation (MHI) Assessment. Accepted The technology that will be used must be provided and facilities that have been successfully operating with the same technology must be provided. The audit reports from those facilities must be made available as proof of claims for the technology proposed for the Kelvin plant. Research from Harvard has shown that for GAS fired power plants. Please provide feedback on each fact and claim in this research report and how the proposed plant will address potentially similar results from the operations. Natural gas (also referred to as "methane gas" or "gas") is a mixture of fossil fuels in gaseous form, and is burned in gas turbines, engines and boilers to produce power. Gas used for power generation consists mainly of methane (generally about 85%), but can also contain propane, butane, nitrogen and other hydrocarbons.[1] Natural gas fuel causes CO₂ and NO_x emissions,[2] methane (CH₄), PM, SO_x, CO, formaldehyde, ammonia (NH₃), and non-methane hydrocarbons (NMHCs).[3][4] Fully combusted methane releases water and CO₂, both of which are strong greenhouse gases, but other molecules in the fuel and air within a combustion chamber can also react to form other pollutants that are released into the air. The major pollutant of gas plants is NO_x. [5] There are two types of gas-fired power plants: combined cycle plants and simple cycle plants otherwise known as peaker plants. Peaker plants are less efficient and more polluting than combined cycle plants. Peaker plants can also generate more NO_x and CO emissions.[6]

- Oxides of Nitrogen (NO_x): Oxides of Nitrogen, more commonly referred to as NO_x is released to the atmosphere during the combustion of methane. Nitrogen in the air and trapped in the fuel reacts with Oxygen molecules during combustion, creating NO and NO₂ molecules during the reaction.[1] These oxides of nitrogen are associated with a number of respiratory illnesses, such as:[7][8]
 - o Inflammation of the airways
 - o Reduced lung function
 - o Asthma symptoms
 - o Chronic bronchitis
 - o Increased susceptibility to respiratory infection.
- Carbon Monoxide (CO) and Volatile Organic Compounds (VOCs): Although typically fairly low in gas plants with higher combustion efficiencies, gas plants also emit carbon monoxide and volatile organic compounds (VOCs) into the air.[1] Both of these pollutants are hydrocarbons in the fuel that are not fully burned during the combustion process, and are more directly harmful to human health than fully combusted hydrocarbons (such as CO₂).
 - o Carbon monoxide can bind with hemoglobin in the blood, causing poor oxygen circulation in the body. This can cause fatigue, headaches, and dizziness, as well as adversely impact the health of unborn babies.[9]
 - o Other VOCs have a host of related health impacts, with some compounds causing cardiovascular diseases and lung cancer.[10]
- Ozone (O₃): Although ozone is not directly emitted during combustion, NO_x and VOCs released from gas plants can react with other compounds in the presence of sunlight can create ground level ozone.[11]
 - o Breathing in ground level ozone, particularly at higher temperatures, has also been correlated with increased vulnerability to many respiratory illnesses.[12]
- Particulate Matter (PM): Particulate matter (PM) refers to combinations of compounds that form particles of a certain size in the air. Although burning gas is not quite as "dirty" as burning coal, fine particulate matter PM_{2.5} (less than 2.5 microns in width) is still released into the atmosphere during the combustion

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process.[13] Additionally, NOx and VOCs that are emitted by gas plants can also combine with other compounds in the air to form PM2.5 and PM10. These “secondary” emissions are considerably more significant than the direct emissions, and have the greatest impact on human health.[14] Breathing in PM2.5 can cause:

- o Lung cancer[15]
- o Ischemic heart disease[15]
- o Increased susceptibility to respiratory illnesses[15]
- o Pre-term births[13]
- o Low birth weight
- o Post neonatal mortality.[13]
- o Children and the elderly are also more susceptible to the asthma and bronchitis.[13]

A Harvard study from 2021 explores the impact of pollutants such as ammonia (NH3), NOx and PM2.5 released from burning gas in various industrial and residential settings on early mortality rates:[16]

- An increase of 1 microgram per cubic meter of PM2.5 leads to a 1.4% increase in the likelihood of early mortality.
- These emissions are responsible for approximately 10,000-15,000 cases of early mortality in the United States – or 21% of all annual deaths caused by air pollution from burning fuels.
- The proportion of emissions related early mortality attributed to gas and biomass combustion is now greater than coal overall, and gas emissions from stationary sources cause more deaths than coal in 19 states in 2017. The Health and Environmental Alliance (HEAL) also estimates that emissions from gas plants are responsible for 2,800 premature deaths in Europe, as well as more than 15,000 cases of respiratory illnesses.[15] They estimate the emissions are responsible for:
- 17% of all lung cancer
- 12% of ischemic heart disease
- 33% of childhood asthma
- 3% of all chronic obstructive pulmonary diseases
- The cost of these health burdens, in addition to lost days of productivity amount to over 8.7 billion euros (\$9.11 million USD). Stationary Emissions Sources

As noted by the Union of Concerned Scientists, gas plants are “stationary” emissions sources—they release pollutants at a fixed location over long periods of time. The pollutants do not disperse evenly into the air immediately; based on factors such as wind and weather conditions, emissions can remain concentrated in certain areas close to gas-fired power plants.[17]

- A study published in the European Journal of Internal Medicine showcases the effect of a 750 MW power plant in San Paolo, Italy, home to around 74000 residents.[18]
- o They find that PM10 particles in the air increased from 36.4 to 41.5 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$), while NOx levels were also reported to have increased from 24 to 25.3 $\mu\text{g}/\text{m}^3$.
- o This increase is correlated with an increase in hospital visits among the elderly, with the impact increasing as the residences grew closer to the power plant.
- A study on the effect of a combined-cycle gas-fired power plant in Qom similarly compares the health outcomes of people living in a 5, 10, and 15km radius from the power plant. [19]
- o Using pollution data from different monitoring stations, as well as including controls for the effect of wind, they find that emissions have the greatest health impact in a town 2.5km north, and 7.5km west of the power station.
- o They find that the power plant causes 2 extra deaths per year.
- o Emissions from the power plant account for 21% of all cases of chronic cough and bronchitis.
- o The total health cost of the emissions from the plant are projected to be \$4.7 million USD.
- A study on the health impacts caused by air pollution from gas plants in South Korea analyzed the health benefits of an accelerated phase out of gas power.[20]
- o South Korean gas power generation is estimated to cause up to

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859 premature deaths per year and 23,200 premature deaths until 2064. o 17,840 premature deaths could be avoided by withdrawing the plans to construct the gas plants in the pipeline, touted as the "bridge" in the energy transition, while also phasing out all gas plants in South Korea by 2035. Socioeconomic Inequalities The health effects of gas-fired power plants vary along the lines of country, race, and income. Globally, emissions standards, laws on air quality, and enforcement mechanisms are generally weaker in less developed countries, increasing the risk of emissions and exposure of the local communities to the emissions.[21] In addition, combined cycle technology, which is less polluting than simple cycle gas plants tends to be more expensive than peaker plants.[22] Locally, marginalized groups face higher health risks, predominantly due to closer proximity to the power plants.[23] The fundamental problem of distributional environmental injustice is that those responsible for relatively smaller emissions face a greater proportion of the consequences. • A study published in the Proceedings of the National Academy of Science (PNAS) highlights the disparity between the levels of emissions and exposure to these emissions based on race in the US.[24] o By tracking the emissions associated with goods consumed by individuals, they find that Blacks are exposed to 21% more PM2.5 pollution than the average individual, and are responsible for 23% less emissions. o Accordingly, they face 63% more exposure than they cause o Non-white Hispanics also experience a disparity of 56%. • PSE Healthy Energy released a 2017 report detailing the difference in exposure to emissions from gas power plants by income categories.[25] o They find that 84% of all "peaker" gas plants operate in areas considered "most disadvantaged" in California. o More than 50% of these are found in communities that feature within the bottom 30% in terms of advantage. Finally, there are chain and multiplier effects of gas-fired power plants through the effects on the environment and wildlife. For instance, Mercury pollution of water bodies may cause ingestion in humans through fish. Contaminated fish is the primary pathway for human exposure to mercury. Ingested mercury can damage the nervous system, especially in children and fetuses.[26] Impacts on Wildlife and the Environment from Gas Plants The impacts of the gas-fired power plant on the environment are categorized into three lifecycle stages: construction, operation & maintenance, and decommissioning. Construction The direct impacts of construction on the environment are landscape change, the use of natural resources, and construction waste. • The landscape change may involve clearing the land area for the plant site and associated infrastructure (e.g., a terminal, a pipeline, or transmission lines), potentially causing deforestation.[27] • Landscape change may also affect wildlife through construction activities, habitat disturbance or destruction, noise, and pollution.[27] • The construction phase may cause temporary or permanent impacts on soil, water, and air quality. Exposed land areas due to construction may cause soil erosion and sedimentation, washing away the soil nutrients and pollutants to nearby water bodies during storm events or spring thaws if left unmanaged. • Construction works may require filling or draining wetlands or affect the wetlands near the plant site. Operation & maintenance The most substantial impact of the operation & maintenance of a gas-fired power plant is emissions, namely sulfur dioxide

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(SO₂), nitrogen oxides (NO_x), particulate matter (PM), carbon dioxide (CO₂), mercury (Hg), and other pollutants.[28] The major pollutants are nitrogen oxides or NO_x. [5] • The effects of emissions on wildlife health are likely similar to the effects on human health described above. • No_x pollution reduces plant biodiversity and affects the growth and survival of plants and other organisms, leading to changes in the ecosystem. Nitrogen pollution leads to the eutrophication of water bodies, altering aquatic ecosystems and causing harmful algae.[29] • SO₂ causes acid rain, damaging vegetation, acidifying lakes, and affecting the reproduction and health of wildlife.[26][30] • Mercury emissions can be converted to methyl mercury by bacteria in waterways and absorbed by fish and other organisms.[26][31] • Ground-level ozone increases risks of disease, insects, fungus, harsh weather, and other risk factors for plants. These risks may affect the ecosystem through biodiversity loss, impaired health and growth.[29] In addition, power plants cause avian deaths through onsite collision and electrocution with plant equipment, poisoning, and death caused by acid rain, mercury pollution, and climate change.[32] Climate change, caused by greenhouse gasses, has indirect, multiplier, and long-term effects on the environment and wildlife.[33] Operations of the power plant affect the water quantity and quality. Power plants use water from lakes, rivers, and municipal water utilities for plant cooling, and groundwater for plant processes.[26] • Power plant processes reduce water at the local stream and groundwater aquifer, negatively affecting the stream morphology, habitat, aquatic plant, and animal species, promoting the growth of algae and invasive plants.[26] • Discharge of polluted process water threatens local ecosystems, especially if safety mechanisms are neglected. Discharge of water with a different temperature, usually warmer after the power plant processes, can also negatively affect the ecosystem.[26] Incidents at Gas Plants with impacts on Health and Environment Incidents at the gas plants that may cause harm to health and the environment appear to be mostly explosions and fires. A historical analysis of accidents in gas and oil-fired equipment analyzed the causes. These were tube rupture, error in the ignition or reignition sequences, loss of flame in the combustion chamber, and the entrance of foreign fuel or other materials.[40] The ENergy-related Severe Accident Database (ENSAD) recorded 19 accidents at natural gas-fired power plants as of 2020: 5 in the USA and territories, 5 in China, 3 in Azerbaijan, 2 in Canada, 1 in the UK, 1 in Russia, and 1 in Australia.[41] The data appears to be not exhaustive. Notably, accident risks at power plants represent a small percentage of hazards across all stages of energy chains.[42] A few accidents at gas-fired power plants include: • Kleen Energy Plant (2010, USA): An explosion occurred during a natural gas purging operation at the Kleen Energy Plant in Middletown, Connecticut, USA. The incident resulted in 6 fatalities and at least 50 injuries.[43] • Enron power station (2001, UK): An explosion occurred in a transformer room, killing three and seriously injuring one person.[44] • Nuon gas-fired power plant (2012, Netherlands): An explosion occurred during repair work at the high-voltage grid, injuring eight employees.[45] • Formosa Ha Tinh Steel Corporation's power plant (2022, Vietnam): An explosion occurred during pipeline maintenance, killing one and injuring two employees.[46] • Sentinel Energy Project (2017, USA):

Comments and Responses 1607 Kelvin Power Station CCGT EIA WULA

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A high-pressure valve explosion killed one employee.[47] • Baniyas Thermal Station (2021, Syria): A fuel leakage from one of the tanks caused an oil spill the size of New York City along the Syrian coast, reaching the Cypriot shore and Turkey's northeast coast. The oil spill also directly impacted the local fisher community and their livelihood, damaging the marine ecosystem and the coastal area.[48] • West Tripoli power plant (2022, Libya): A fuel leakage from the tank caused an oil spill, polluting the soil and sea waters and endangering human health and the marine ecosystem.[49]

Date 2024/05/13 Method Email

Comment

Hi Jolene, I received the negative GDARDE Decision on the Spartan application which you also commented on. The applicant is investigating the possibility of linking to the Kelvin alternative energy initiative and to erect solar panels on the land because they will not be able to continue with housing.. The land is too small for an IPP and want to explore the options with Kelvin to join their initiatives. However, in their communication with the local Kelvin management they could not get any understanding of the possible options. Is there any way that my client can contact the owners to have a meaningful discussion for a mutual benefitting solution? Please let know if you have contact with them and if I can direct my client to you for a discussion. Best Gwen

Response

Good Morning Dr Theron, The people we have been dealing with at Kelvin at*** (environmental manager) and *** (General Manager). You could try contacting them , their contact details are as follows *** **

Date 2024/05/14 Method Email

Comment

Dear John, Your assistance is most appreciated. The land owner of the Spartan land, and representative of JT Group Developments (Pty) Ltd, ***, may contact you if required. Best Regards Gwen

Response

EIMS noted the response from the I&AP as acknowledgement of receipt of the previous email.

Christina Mnisi

Date 2024/08/16 Method Email

Comment

Good Day The team will attend Tx

Response

EIMS noted the email as acknowledgement of receipt of the Draft EIA Report notification.

Zandisile Mseleni

Date 2024/02/16 Method Email

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Zandisile Mseleni

Comment

Good day kelvin May you please send me the maps of the location which the authorization is needed. Preferably in KMZ or Dgn

Response

Good day, Kindly find the attached KMZ of the site area and the locality map. This email also serves to notify you that you have been registered as an Interested & Affected Party (I&AP) for this project for future communications regarding the project. Please feel free to contact EIMS should you have any comments/queries regarding the proposed Kelvin Power Station CCGT project.

Nokusho Ngobeni

Date 2024/03/20 Method Email

Comment

Good day, Please note that all development applications are processed via our online portal, the South African Heritage Resources Information System (SAHRIS) found at the following link: <http://sahra.org.za/sahris/>. We do not accept emailed, posted, hardcopy, faxed, website links or DropBox links as official submissions. Please create an application on SAHRIS for each EA application and upload all documents pertaining to the Environmental Authorisation Application Process. As per section 24(4)b(iii) of NEMA and section 38(8) of the National Heritage Resources Act, Act 25 of 1999 (NHRA), an assessment of heritage resources must form part of the process and the assessment must comply with section 38(3) of the NHRA. If a case already exists on SAHRIS regarding the development, please upload the documents to that case using the "Make an additional submission to an existing case" in the application selector wizard <https://sahris.org.za/form/application-selector>. Please ensure that all documents produced as part of the EA process are submitted as part of the application. ****PLEASE NOTE**** An application fee is now required for all section 38 applications. Please ensure that the SAHRIS application contains a proof of payment as per the notice at the following link: <https://sahris.org.za/help>. A payment of R 2 000.00 for each application is required. Please make separate payments with the specific reference numbers. Applications that do not include a proof of payment will be considered incomplete and will not be processed until proof of payment is provided. Please make use of the SAHRIS Case ID in the payment reference. i.e. 12345/38.8. Please upload the PoP using the "Make an additional submission to an existing case" in the application selector wizard <https://sahris.org.za/form/application-selector>. The case officer assigned to your case will approve the submission and begin to process the case. Kind regards,

Response

Good day, Thank you for your email. Kindly note that an application has been made (Case ID: 22086, Title: 1607 Kelvin Power Station CCGT EIA WULA).

Date 2024/08/16 Method Email

Comment

Response

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Nokusho Ngobeni

Good day, Please note that all development applications are processed via our online portal, the South African Heritage Resources Information System (SAHRIS) found at the following link: <http://sahra.org.za/sahris/>. We do not accept emailed, posted, hardcopy, faxed, website links or DropBox links as official submissions. Please create an application on SAHRIS for each EA application and upload all documents pertaining to the Environmental Authorisation Application Process. As per section 24(4)b(iii) of NEMA and section 38(8) of the National Heritage Resources Act, Act 25 of 1999 (NHRA), an assessment of heritage resources must form part of the process and the assessment must comply with section 38(3) of the NHRA. If a case already exists on SAHRIS regarding the development, please upload the documents to that case using the "Make an additional submission to an existing case" in the application selector wizard <https://sahris.org.za/form/application-selector>. Please ensure that all documents produced as part of the EA process are submitted as part of the application. ****PLEASE NOTE**** An application fee is now required for all section 38 applications. Please ensure that the SAHRIS application contains a proof of payment as per the notice at the following link: <https://sahris.org.za/help>. A payment of R 2 000.00 for each application is required. Please make separate payments with the specific reference numbers. Applications that do not include a proof of payment will be considered incomplete and will not be processed until proof of payment is provided. Please make use of the SAHRIS Case ID in the payment reference. i.e. 12345/38.8. Please upload the PoP using the "Make an additional submission to an existing case" in the application selector wizard <https://sahris.org.za/form/application-selector>. The case officer assigned to your case will approve the submission and begin to process the case.

EIMS responded to Nokusho via an email to the case officer, Ms Khumalo on 2024/08/20.

Ms Nokukhanya Khumalo

Date 2024/04/18 Method Email

Comment

EIMS followed up with the assigned case officer regarding the SAHRIS application.

Response

Good day Ms Khumalo, I refer to my email below regarding the SAHRIS submission (Case ID: 22086, Title: 1607 Kelvin Power Station CCGT EIA WULA) where Ms Khumalo is indicated as the case officer. We noticed that the Status of the submission still reflects as "Proof of Payment Outstanding" and no comments on the draft scoping report from SAHRA have been received to date, however, the POP was uploaded, and you were notified of the submission in the email below. Kindly see the screenshots attached to this email showing the current status of the application and the POP that was submitted. Please be aware that the review period for the draft scoping report for this project has ended (on the 17th of April 2024). Please advise whether you are able to see the submission on the SAHRIS system?

Date 2024/07/10 Method Email

Comments and Responses 1607 Kelvin Power Station CCGT EIA WULA

Ms Nokukhanya Khumalo

Comment

No comment from SAHRA had been received as of 10 July 2024, EIMS followed up on the SAHRIS application with the case officer.

Response

Good day, We would like to request an update regarding the SAHRIS case ID 22086 (1607 Kelvin Power Station CCGT EIA WULA)? Currently the status of the application says "Under Authority Review" and there are no comments provided by SAHRA regarding this project.

Date 2024/07/10 Method Email

Comment

Good afternoon The case is being looked at and I will provide comments as soon as possible.
Kind Regards,

Response

EIMS noted the response from the SAHRIS application Case Officer.

Date 2024/08/16 Method Email

Comment

EIMS responded to Nokusho Ngobeni's email dated 2024/08/16: [Good day, Please note that all development applications are processed via our online portal, the South African Heritage Resources Information System (SAHRIS) found at the following link: <http://sahra.org.za/sahris/>. We do not accept emailed, posted, hardcopy, faxed, website links or DropBox links as official submissions. Please create an application on SAHRIS for each EA application and upload all documents pertaining to the Environmental Authorisation Application Process. As per section 24(4)b(iii) of NEMA and section 38(8) of the National Heritage Resources Act, Act 25 of 1999 (NHRA), an assessment of heritage resources must form part of the process and the assessment must comply with section 38(3) of the NHRA. If a case already exists on SAHRIS regarding the development, please upload the documents to that case using the "Make an additional submission to an existing case" in the application selector wizard <https://sahris.org.za/form/application-selector>. Please ensure that all documents produced as part of the EA process are submitted as part of the application. ****PLEASE NOTE**** An application fee is now required for all section 38 applications. Please ensure that the SAHRIS application contains a proof of payment as per the notice at the following link: <https://sahris.org.za/help>. A payment of R 2 000.00 for each application is required. Please make separate payments with the specific reference numbers. Applications that do not include a proof of payment will be considered incomplete and will not be processed until proof of payment is provided. Please make use of the SAHRIS Case ID in the payment reference. i.e. 12345/38.8. Please upload the PoP using the "Make an additional submission to an existing case" in the application selector wizard <https://sahris.org.za/form/application-selector>. The case officer assigned to your case will approve the submission and begin to process the case.]

Response

Dear Ms Khumalo, Kindly note that the Draft EIA Report has been added to the SAHRIS application (Case ID: 22086, 1607 Kelvin Power Station CCGT EIA WULA). The case status is currently shown as "Under Authority Review" and no comments have been received from SAHRA as of yet. Please also be reminded of the Heritage Impact Study Exemption letter that was submitted on 05/17/2024.

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Ms Nokukhanya Khumalo

Date 2024/09/09 Method Other

Comment

CaseReference: 1607 Kelvin Power Station CCGT EIA WULA Applicable legislation: 38(8) Decision Date: 09/09/2024 Committee: By Delegation of Authority Decision Status: Final Comment Case Decision: Final Comment The SAHRA Development Applications Unit (DAU) notes and accepts the submission of the draft EIA, and HIA reports. SAHRA has no objections to the proposed development on the following conditions: 38(4)a – The SAHRA Development Applications Unit (DAU) has no objections to the proposed development; 38(4)b – The recommendations provided by the heritage specialists are supported and must be adhered to. The following standard conditions apply: 38(4)c(i) – If any evidence of archaeological sites or remains (e.g. remnants of stone-made structures, indigenous ceramics, bones, stone artefacts, ostrich eggshell fragments, charcoal and ash concentrations), fossils or other categories of heritage resources are found during the proposed development, SAHRA DAU (Nokukhanya Khumalo/Natasha 021 202 8660) must be alerted as per section 35(3) of the NHRA. Non-compliance with section of the NHRA is an offence in terms of section 51(1)e of the NHRA and item 5 of the Schedule; 38(4)c(ii) – If unmarked human burials are uncovered, the SAHRA DAU (Nokukhanya Khumalo/Natasha 021 202 8660), must be alerted immediately as per section 36(6) of the NHRA. Non-compliance with section of the NHRA is an offence in terms of section 51(1)e of the NHRA and item 5 of the Schedule; 38(4)d – See section 51(1) of the NHRA; 38(4) e – The following conditions apply with regards to the appointment of specialists: i) If heritage resources are uncovered during the course of the development, a professional archaeologist or palaeontologist, depending on the nature of the finds, must be contracted as soon as possible to inspect the heritage resource. If the newly discovered heritage resources prove to be of archaeological or palaeontological significance, a Phase 2 rescue operation may be required subject to permits issued by SAHRA; This comment must be forwarded to the competent authority; The decision regarding the EA Application must be communicated to SAHRA and uploaded to the SAHRIS Case application.

Response

Dear Ms Khumalo, We would like to confirm receipt of the Final Comment for the SAHRIS Case ID: 22086 issued 9 September 2024.

Federica Scalla

Date 2024/03/06 Method Email

Comment

Good afternoon Kelvin I trust you are well and that you have had a good day so far. I refer to the attached correspondence, as well as, your email below. Please be advised, that as directed in your letter dated, 14 February 2024, we would like to be registered as an interested party. Name: *** Contact Detail: Email - *** Cell: *** Tel: ***

Response

Good day, Thank you for your email and interest in the project. We have registered you as an Interested and Affected Party (I&AP) on this project for further communications regarding the project. All comments received from I&APs are recorded and addressed in the relevant environmental reports and are considered by the competent authority to ensure that a well-

Comments and Responses 1607 Kelvin Power Station CCGT EIA WULA

Federica Scalla

Reason for interest: We border on the power station, we are an affected party and would like to be privy to the risk assessment and mitigating factors. Please confirm receipt of this email.

informed decision is made. Please feel free to contact EIMS should you have any comments/queries regarding this project.

Tracey Lourenco

Date 2024/02/15 Method Email

Comment

Good day Please could you add me as an interested party.

Response

Good day, Thank you for your email and interest in the proposed Kelvin Power Station CCGT project. We have registered you as an Interested and Affected Party (I&AP) on this project for further communications regarding the project. All comments received from I&APs are recorded and addressed in the relevant environmental reports and are considered by the competent authority to ensure that a well-informed decision is made. Please feel free to contact EIMS should you have any comments/queries regarding this project.

Tobias Verwey

Date 2024/02/16 Method Email

Comment

Morning: Got this : ↗ PUBLIC PARTICIPATION | KEMPTON PARK ————— • Kelvin Power (Pty) Ltd has enlisted the services of EIMS to manage the Environmental Authorization procedures. • The applicant intends to develop a Combined Cycle Gas Turbine (CCGT) Power Plant at the Kelvin Power Station, with a net output of approximately 600 megawatts. • If you have any interest or concerns regarding this project, please reach out to Jolene at 0117897170 or email Kelvin@eims.co.za. • For further information, you can visit: <https://www.eims.co.za/public-participation/>. Jolene, just to confirm; this power station belongs to Jhb. Correct? Is there any benefit for the additional development for anyone else? Regards Tobias

Response

Good day, Thank you for your interest in the project. Please note that we are still in the early stages of the Environmental Impact Assessment (EIA) process and detailed studies are still being completed where any potential benefits that arise from this project may be addressed. You will be notified once the Scoping and EIA reports are available for public comment and review. Please feel free to contact EIMS should you have any comments/queries regarding this project.

Bonnie Ndlangamandla

Date 2024/02/15 Method Email

Comment

Good day, Here with please find my attached resume for an open vacancy in the admin department. I'm currently unemployed and available immediately. Kind regards,

Response

Good day, Thank you for your email. Kindly note that EIMS has been appointed as independent Environmental Consultants to undertake the necessary environmental authorisation processes. The aim of our involvement is to acquire input/solicit comment from the public regarding the

Comments and Responses 1607 Kelvin Power Station CCGT EIA WULA

Bonnie Ndlangamandla

environmental application and as such are not involved in Kelvin Power's hiring processes. This email also serves to inform you that you have been registered as an Interested and Affected Party (I&AP) for this project for further communications regarding this project. Please feel free to contact EIMS should you have any comments/queries regarding the proposed Kelvin Power Station CCGT project.

Date 2024/06/05 **Method** Email

Comment

Dear Hiring manager, Herewith please find my attached resume for your perusal, for any available office work position. I have over 10 years experience in financial administration in the banking industry ,however I would like the exposure and be given an opportunity. I'm a very creative person, open minded and open to learning and new challenges. I believe I am a very competent individual and willing to learn new things. I've been looking for employment even doing online vacancies during my free time during the day. Currently trying to complete an online tutoring course once done will be added on my resume. I have my own transport, available immediately. Currently unemployed, have been unemployed for the past 4 Months. Please keep my resume for future reference and other opportunities should this opportunity pass me. Kind regards, Bonnie Email: *** Tell: ***

Response

Good day, Thank you for your email. Kindly note that EIMS has been appointed as independent Environmental Consultants to undertake the necessary environmental authorisation processes. The aim of our involvement is to acquire input/solicit comment from the public regarding the environmental application and as such have no involvement in Kelvin Power's hiring processes. This email also serves to inform you that you have been registered as an Interested and Affected Party (I&AP) for this project for further communications regarding this project. Please feel free to contact EIMS should you have any comments/queries regarding the proposed Kelvin Power Station CCGT project.

Franco McKellar

Date 2024/03/26 **Method** Email

Comment

Dear Jolene Webber, Please register me as an Interested and Affected Party regarding KELVIN POWER STATION COMBINED CYCLE GAS TURBINE PLANT, Ref 1607. *** ** Please acknowledge receipt of this email.

Response

Good day, Thank you for your email and interest in the project. We have registered you as an Interested and Affected Party (I&AP) on this project for further communications regarding the project. All comments received from I&APs are recorded and addressed in the relevant environmental reports and are considered by the competent authority to ensure that a well-informed decision is made. Please feel free to contact EIMS should you have any comments/queries regarding this project.

Date 2024/04/03 **Method** Email

Comment

Dear Jolene Webber, I refer to the email trail below. We will not be attending the public participation meeting on 3 April 2024. However, we request that you please supply us with a copy of the presentation materials that will be discussed at the meeting. Please also provide us

Response

Good day, Thank you for your email. Kindly note that the event is a public open day, as such, there are no presentation slides. However, please find the attached posters that will be used at the open day. We will provide the minutes once they become available. Please feel free to

Comments and Responses 1607 Kelvin Power Station CCGT EIA WULA

Franco McKellar

with minutes of this meeting when they become available. We will need these to provide feedback on the Draft Scoping Report (DSR) that you have submitted and circulated. As comment on the DSR is due before 17 April 2024, we will greatly appreciate some expediency in this regard. Thank you in advance.

contact us should you require any further information or if you have any comments/queries regarding the project.

Date 2024/04/03 Method Email

Comment

Dear Jolene, Thank you, well received.

Response

Good morning, Kindly find the attached comment record of all comments and responses from the Open Day on 3 April 2024, as per your request. Please feel free to contact EIMS should you have any comments/queries or if you require any further information. All comments on the Draft Scoping Report must be submitted by no later than the 17th of April 2024.

Salome Mambane

Date 2024/04/15 Method Email

Comment

Good day. Please find herein the attached letter for the above mentioned. Please do not respond to this mailbox with any queries related to the decision been issued. All queries on the attached decision must be directed to official whose contact details is listed as enquiries. I hope you find all in order.

Response

Please refer to the table of Comments and Responses regarding the attached letter of comments provided by the DFFE, below.

Mr Irwin Juckes

Date 2024/02/27 Method Email

Comment

Good day Jolene, Please register me as an Interested Party. My interest is the health of the stream and catchment, plus I live nearby. Please send me the relevant documents. Phone: *** Email: *** Regards,

Response

Good day, Thank you for your interest in the project. Please note that we are still in the early stages of the Environmental Impact Assessment (EIA) process and detailed studies are still being completed. We have registered you as an Interested and Affected Party (I&AP) on this project for further communications regarding the project. All comments received from I&APs are recorded and addressed in the relevant environmental reports and are considered by the competent authority to ensure that a well-informed decision is made. You will be notified once the Scoping and EIA reports are available for public comment and review. Kindly find the attached Background Information Document. Please feel free to contact EIMS should you have any comments/queries regarding this project.

Comments and Responses 1607 Kelvin Power Station CCGT EIA WULA

Ziyanda Mdoda

Date 2024/08/16 Method Email

Comment

Good day, Please find attached wayleave approval for this application. Warm Regards [Attachment]: RE: NOTIFICATION REGARDING OPPORTUNITY TO PARTICIPATE IN THE ENVIRONMENTAL APPLICATION PROCESSES FOR THE PROPOSED KELVIN POWER STATION COMBINED CYCLE GAS TURBINE PLANT, IN THE EKURHULENI METROPOLITAN MUNICIPALITY I refer to your application letter dated 16 August 2024 in this regard and wish to inform you that National Transmission Company South Africa (NTCSA) Northrand- Sebenza 400kV vacant servitude will be affected by this application NTCSA will raise no objection to the environmental authorisation application provided the following terms are adhered to: 1. NTCSA's rights and services must be acknowledged and respected at all times. 2. NTCSA shall at all times retain unobstructed access to and egress from its servitudes. 3. NTCSA's consent does not relieve the applicant from obtaining the necessary statutory, landowner or municipal approvals. 4. The applicant will adhere to all relevant environmental legislation. Any cost incurred by NTCSA as a result of non-compliance will be charged to the applicant. 5. All work within NTCSA's servitude areas shall comply with the relevant Eskom earthing standards in force at the time. 6. The NTCSA registered servitude for a 400kV power line is 55m wide. 7. No construction or excavation work shall be executed within 20 metres from any NTCSA powerline structure, and/or within 20 metres from any stay wire. 8. If NTCSA has to incur any expenditure in order to comply with statutory clearances or other regulations as a result of the applicant's activities or because of the presence of his equipment or installation within the servitude restriction area, the applicant shall pay such costs to NTCSA on demand. 9. Equipment shall be regarded electrically live and therefore dangerous at all times. 10. Under no circumstances shall rubble, earth or other material be dumped within the servitude restriction area. The applicant shall maintain the area concerned to NTCSA's satisfaction. The applicant shall be liable to NTCSA for the cost of any remedial action which has to be carried out by NTCSA. 11. Changes in ground level may not infringe statutory ground to conductor clearances or statutory visibility clearances. After any changes in ground level, the surface shall be rehabilitated and stabilised so as to prevent erosion. The measures taken shall be to NTCSA's requirements. 12. The use of explosives of any type within 500 metres of NTCSA's services, shall only occur with NTCSA's previous written permission. If such permission is granted the applicant must give at least fourteen working days prior notice of the commencement of blasting. This allows time for arrangements to be made for supervision and/or precautionary instructions to be issued in terms of the blasting process. It is advisable to make application separately in this regard. 13. NTCSA shall not be liable for the death of or injury to any person or for the loss of or damage to any property whether as a result of the encroachment or of the use of the servitude area by the applicant, his/her agent, contractors, employees, successors in title and assignee. The applicant

Response

Good day, Thank you for your email and wayleave approval. Kindly note that the NTCSA Northrand- Sebenza 400kV vacant servitude is unlikely to be affected by the proposed development, however, your comments will be passed on to the applicant for their consideration.

Comments and Responses 1607 Kelvin Power Station CCGT EIA WULA

Ziyanda Mdoda

indemnifies NTCSA against loss, claims or damages including claims pertaining to consequential damages by third parties and whether as a result of damage to or interruption of or interference with NTCSA's services or apparatus or otherwise. NTCSA will not be held responsible for damage to the applicant's equipment. 14. No mechanical equipment, including mechanical excavators or high lifting machinery, shall be used in the vicinity of NTCSA's apparatus and/or services, without prior written permission having been granted by NTCSA. If such permission is granted the applicant must give at least seven working days' notice prior to the commencement of work. This allows time for arrangements to be made for supervision and/or precautionary instructions to be issued by the Lines- and Servitudes Manager. 15. NTCSA's rights and duties in the servitude shall be accepted as having prior right at all times and shall not be obstructed or interfered with. Note: Where and electrical outage is required, at least fourteen work days are required to arrange it. 16. The clearances between NTCSA's live electrical equipment and the proposed construction work shall be observed as stipulated by the Regulation 19 of Electrical Machinery Regulations 2011 (with reference to SANS10280-1) of the Occupational Health and Safety Act, 1993 (Act 85 of 1993). 17. In spite of the restrictions stipulated by Regulation 19 of Electrical Machinery Regulations 2011 (with reference to SANS10280-1) of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), as an additional safety precaution, NTCSA will not approve the erection of houses, or structures occupied or frequented by human beings, under the powerlines or within the servitude restriction area. 18. NTCSA may stipulate any additional requirements to eliminate any possible exposure to Customers or Public to coming into contact or be exposed to any dangers of NTCSA plant. 19. It is required of the applicant to familiarise himself with all safety hazards related to Electrical plant. For any further information please contact the writer at the above-mentioned telephone number.

Ms Dineo Kwili

Date 2024/10/07 Method Email

Comment

Dear Ms Jolene Webber, REF: 1607 - Draft Environmental Impact Assessment Report for the Proposed CCGT Power Plant at Kelvin Power Station I refer to a discussion between yourself and Mr Hubert Luvalo of Bombela Concession Company, regarding our intention to submit comments on the abovementioned project that affects the Gautrain Rapid Rail Link. We hereby submit the Gautrain Management Agency's comments attached herewith for your attention. We understand that the comments have been submitted after the comment period has closed, however we trust our comments will be considered and that we will have further engagement on this project as far as the Gautrain is concerned. We would appreciate your confirmation of

Response

Dear Ms Kwili, Thank you for your email. We acknowledge receipt of the comments provided by the Gauteng Management Agency regarding the proposed Kelvin Power Station CCGT project. The comments have been forwarded to the competent authority, the Department of Forestry, Fisheries & the Environment, as well as to Kelvin Power, for their consideration. A response will be forthcoming.

Comments and Responses 1607 Kelvin Power Station CCGT EIA WULA

Ms Dineo Kwili

receipt of this email as well as our comments. Please do not hesitate to contact us should you require further discussion. Kind Regards

Date 2024/10/07 Method Email

Comment

Dear Ms Jolene Webber, REF: 1607 - Draft Environmental Impact Assessment Report for the Proposed CCGT Power Plant at Kelvin Power Station I refer to a discussion between yourself and Mr Hubert Luvalo of Bombela Concession Company, regarding our intention to submit comments on the abovementioned project that affects the Gautrain Rapid Rail Link. We hereby submit the Gautrain Management Agency's comments attached herewith for your attention. We understand that the comments have been submitted after the comment period has closed, however we trust our comments will be considered and that we will have further engagement on this project as far as the Gautrain is concerned. We would appreciate your confirmation of receipt of this email as well as our comments. Please do not hesitate to contact us should you require further discussion. Kind Regards

Response

Good day, Thank you for your email and letter of comments from the Gauteng Management Agency. Kindly find the attached letter and updated EMPr in response to the GMA's letter dated 04 October 2024.

Mrs Portia Makitla

Date 2024/04/18 Method Email

Comment

Good morning Kindly find the attached comments. [Attachment]: Dear Mr Magaqa COMMENTS ON THE DRAFT SCOPING REPORT FOR THE PROPOSED KELVIN POWER PLANT COMBINED CYCLE GAS TURBINE PROJECT, GAUTENG PROVINCE The Directorate: Biodiversity Conservation has reviewed and evaluated the reports. The Directorate: Biodiversity Conservation has reviewed and evaluated the reports and does not have any objection to the draft Scoping Report and the Plan of Study for EIA. To ensure the continued persistence of ecosystems and that national conservation targets are achieved, it is essential that impacts on sensitive and highly localised habitats are minimized or avoided altogether. The EIA report must comply with the procedures for the assessment and minimum criteria for reporting on identified environmental themes in terms of sections 24(5) (A) and (H) and 44 of the National Environmental Management Act, 1998. In conclusion, the Public Participation Process documents related to Biodiversity EIA for review and queries should be submitted to the Directorate: Biodiversity Conservation at Email; *** for the attention of Mr. Seoka Lekota. Yours faithfully Mr Seoka Lekota

Response

Good day, Thank you for your email. We acknowledge receipt of the attached letter and comments provided by the Directorate: Biodiversity Conservation. The EIA report will comply with the procedures for the assessment and minimum criteria for reporting on identified environmental themes in terms of sections 24(5) (A) and (H) and 44 of the National Environmental Management Act, 1998. Mr. Seoka Lekota (***), Ms. Portia Makitla and Ms. Tebego Kgaphola will be notified of the availability of the environmental reports and associated Public Participation Process documents for public review and comment.

Date 2024/09/11 Method Email

Comments and Responses 1607 Kelvin Power Station CCGT EIA WULA

Mrs Portia Makitla

Comment

Good day Please find the attached comments for your consideration [Attachment]: PER E-MAIL COMMENTS ON THE DRAFT ENVIRONMENTAL IMPACT ASSESSMENT REPORT FOR THE PROPOSED KELVIN POWER PLANT COMBINED CYCLE GAS TURBINE PROJECT, GAUTENG PROVINCE The Directorate: Biodiversity Conservation reviewed and evaluated the report. The proposed development site is located within the Kelvin Power Station. The site consists of buildings and/colling towers surrounded by grass Kikuyu grass with scattered aliens located mainly along the railway alignment, access roads and sections adjacent the coal stockpiles area. Furthermore, the proposed development will be located at the existing A-station footprint, which is no longer operational and is undergoing a demolition process. The Directorate has noted the National Environmental Screening Tool report results that the site is located within very highly sensitive area which was disputed and downgraded to 'Very Low' sensitivity.. From Biodiversity and Conservation impacts perspective the proposed development does not seem to result in very high impacts. However, to ensure the continued persistence of ecosystems and that national conservation targets are achieved, it is essential that impacts on sensitive and highly localised habitats are minimized or avoided altogether. Amongst others, please ensure that the following recommendations are considered and adhered to:

- The 'no-go' areas of the development property must be clearly demarcated and excluded from the final layout plan.
- No construction camps, temporary or permanent laydown areas or any activities associated with the development are to be located within the important conservation areas.
- The development footprint must avoid the highly sensitive areas with their respective buffer zones.
- Prevent the further loss and fragmentation of vegetation communities and the high biodiversity areas in the vicinity of the study area.
- Maintain ecological processes at all scales and avoid or compensate for any effects of land uses on ecological processes.
- Disturbed areas must be rehabilitated as soon as possible after construction with locally indigenous plants to enhance the conservation of existing natural vegetation on site.
- Care must be taken to avoid the re-introduction and spread of alien invasive species.
- Minimize land use types that reduce ecological resilience (ability to adapt to change), particularly at the level of water catchments.
- Implement land use and land management practices that are compatible with the natural potential of the area.

In conclusion, all Public Participation Process documents related to Biodiversity EIA for review and queries should be submitted to the Directorate: Biodiversity Conservation at Email; *** for the attention of Mr. ***.

Response

Good day Ms. Makitla, Thank you for your email and comments provided on the DEIR for the Kelvin Power Plant CCGT project. The comments provided by the Directorate: Biodiversity Conservation are duly noted and will be incorporated into the relevant reports.

Zamokuhle Nkosi

Date 2024/09/04 Method Email

Comment

Response

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Zamokuhle Nkosi

Greetings, can I please kindly ask if you have any internship, in-service training or apprenticeship for the above mentioned subject.

Good day, Thank you for your email. Kindly note that EIMS has been appointed as independent Environmental Consultants to undertake the necessary environmental authorisation processes. The aim of our involvement is to acquire input/solicit comment from the public regarding the environmental application and as such have no involvement in Kelvin Power's hiring processes. This email also serves to inform you that you have been registered as an Interested and Affected Party (I&AP) for this project for further communications regarding this project. Kindly find the attached notification regarding the availability of the draft EIA report for public review and comment. Please note that all comments on the draft EIA report must be submitted no later than the 16th of September 2024. Please feel free to contact EIMS should you have any comments/queries regarding the proposed Kelvin Power Station CCGT project.

Louisa Magabane

Date 2024/08/16 Method Email

Comment

Dear Sir/ Madam May you kindly provide us with data on the emissions from the power plant, for the past two years, 2021 to 2023 data. Kind Regards

Response

Good day, Kindly find the attached data as per your request. Please feel free to contact EIMS should you have any comments regarding this project.

Date 2024/09/18 Method Email

Comment

Dear Kelvin Gas Your mail is received. Apologies for the late response, I was on leave . Thank you for your feedback Kind Regards

Response

EIMS noted the email as acknowledgement of receipt of the emissions data.

Ria Barkhuizen

Date 2024/02/16 Method Email

Comment

Good day Please supply SANRAL with an A4 locality map as well as GPS co-ordinates pertaining to your application. Maps and GPS co-ordinates together with the whole application can be emailed to *** Kind regards

Response

Good day Ria, Thank you for your email. We would like to clarify that EIMS has been appointed to undertake the necessary environmental authorisation process for the proposed project as per the National Environmental Management Act (NEMA) Environmental Impact Assessment (EIA) Regulations, 2014 as amended. We are not making an application to SANRAL, rather notifying SANRAL as a potential Interested and Affected Party (I&AP) regarding the proposed project as part of the Public Participation Process stipulated in NEMA EIA Regulations. The intention of our notification to I&APs (SANRAL in this case) is to allow the I&AP the opportunity to participate in the public participation process required as part of the environmental authorisation process. All

Comments and Responses 1607 Kelvin Power Station CCGT EIA WULA

Ria Barkhuizen

comments received by I&APs are recorded and addressed in the relevant environmental reports which are sent to the competent authority to assist in granting or refusing an environmental authorisation. However, as per your request, kindly find the attached KML file and locality map of the proposed project. The centre point of the site is approximately 26° 6'45.84"S, 28° 11'36.42"E. Kindly note that *** have been included in this email. Should you have any further queries/comments, please do not hesitate to contact EIMS.

Date 2024/03/26 Method Email

Comment

Good day Due to limit working hours, working from home & limited internet access, I won't be able to download the attachments. Please attached them to your email, send it to nrstat@nra.co.za, or send it via post to ***, to SANRAL's offices. Please include whole application as this one will be deleted. Kind regards Ria

Response

Good day Ria, Thank you for your email. Kindly note that SANRAL has been identified as a potential Interested & Affected Party (I&AP) for the project. The intention behind our notification to SANRAL is not to apply for anything at SANRAL, rather to provide SANRAL the opportunity to participate in the public participation process, which forms part of the environmental authorisation process for the project. All comments received from I&APs are included and addressed in the relevant environmental reports which are then considered by the competent authority to assist in the decision-making process regarding the environmental authorisation application. Kindly find the attached Locality map of the project as well as the notification letter regarding the availability of the Draft Scoping Report for public review and comment. Please note that this notification letter has already been sent to nrstat@nra.co.za, and nrstat@nra.co.za have also been copied in this email. This email also serves to confirm that Ria Barkhuizen (***) as well as nrstat@nra.co.za have been registered as I&APs for further communication regarding this project. We trust that this clarifies any confusion created by our notification to SANRAL. Please feel free to contact EIMS should you have any comments/queries regarding the Kelvin Power Station CCGT Plant project.

Date 2024/08/27 Method Email

Comment

Good day Please note that SANRAL don't accept email applications anymore. Applications can be hand delivered or courier to SANRAL, *** (Ria Barkhuizen). Kind regards Ria

Response

Good day Ria, Thank you for your email. Kindly refer to the attached correspondence sent during the Scoping Phase of this project. Please note that the intention of our notification to SANRAL is not to apply for anything at SANRAL, rather to provide SANRAL the opportunity to participate in the public participation process, which forms part of the environmental authorisation process for the project. All comments received from Interested & Affected Parties (I&APs) are included and addressed in the relevant environmental reports which are then considered by the competent authority to assist in the decision-making process regarding the environmental authorisation application. The project is now in the EIA phase. Any comments on the Draft EIA Report (available at: <https://www.eims.co.za/public-participation/>) are to be submitted by no later than

Comments and Responses 1607 Kelvin Power Station CCGT EIA WULA

Ria Barkhuizen

the 16th of September 2024. Attached is a copy of the Draft EIA Report Availability notice and Background Information Document which provides a locality map and the location of the project.

Date 2024/09/09 Method Email

Comment

Good day Please register SANRAL as an Affected in Interest party to above-mentioned. When application is ready it can be emailed to *** Regards Ria

Response

EIMS noted the response. The I&AP had been informed that there will be no application and that the specified email address had been added to the list of I&APs for this project.

Marcellus Oliphant

Date 2024/02/15 Method Email

Comment

Good morning Jolene, I trust you are all well. I understand that you're involve in the environmental element of this gas to energy project. Would you be able to put me into contact with the relevant project managers in order for us to have discussions surrounding Massive Quantum becoming a supplier to this project. Massive Quantum is a service provider to the Energy sector among others, and holds a sole distributorship with Pleuger industries for the supply of various pumps in Southern Africa. Please find attached: - Massive Quantum Company profile - Pleuger Industries catalogue I hope you are able to pass this on to relevant stakeholders, it would be much appreciated.

Response

Dear Marcellus, Thank you for your email. Kindly note that EIMS has been appointed as independent Environmental Consultants to undertake the necessary environmental authorisation processes. The aim of our involvement is to acquire input/solicit comment from the public regarding the environmental application and as such are not involved in Kelvin Power's hiring and/or procurement processes. This email also serves to inform you that you have been registered as an Interested and Affected Party (I&AP) for this project for further communications regarding this project. Please feel free to contact EIMS should you have any comments/queries regarding the proposed Kelvin Power Station CCGT project.

Date 2024/03/01 Method Email

Comment

Good day Jolene, Thank you for the clarification. Much appreciated.

Response

EIMS noted the response as acknowledgement of receipt of the email sent to the I&AP dated 2024/03/01.

Ntwanano Mendes

Date 2024/05/06 Method Email

Comment

Good day Stakeholder Engagement Team Please find attached SANBI's response to the invite to participate in the project with Reference number: 1607/JP/JW. Please feel free to contact either myself or Mr *** (copied here) if you have any questions or require any further information. [Attachment]: Please note that the South African National Biodiversity Institute (SANBI) did

Response

Good day Ntwanano Mendes, Thank you for your email. We have deregistered SANBI from the list of I&APs for this project as per your request in the attached letter.

Ntwanano Mendes

not register as an Interested and Affected Party (I&AP) for the application with Reference number 1607/JP/jw. SANBI kindly requests that you remove it as an I&AP for the above-mentioned applications. Please note that SANBI only participates in applications for Environmental Authorisation as an I&AP if the application is for a development on a SANBI property or a property adjacent to a SANBI property, or if the application would impact on an area that has been highlighted as a priority implementation area within one of SANBI's Bioregional Programmes. SANBI thus kindly declines to participate in this application as an I&AP at this point in time. SANBI is a public entity mandated to act in an advisory or consultative capacity on matters relating to biodiversity to the Department of Environmental Affairs (i.e. the 'competent authority'). The Department and its provincial counterparts are welcome to engage SANBI for advice and/or comment on specific matters related to biodiversity information relevant to this application, if such input is required. Such advice or comment is not equivalent, however, to the comment required as per the NEMA regulations from commenting authorities. SANBI restricts its comment to the accuracy and relevance of the biodiversity information that should inform the Environmental Assessment. SANBI thus also declines to participate as a commenting authority in this application. For comment on the biodiversity impacts of the development, please consult the relevant provincial conservation agency. I also encourage you to visit our web portal <http://biodiversityadvisor.sanbi.org> for free access to spatial biodiversity information relevant for land-use planning and decision-making processes. Referencing the spatial biodiversity resources found on the Biodiversity Advisor in the early stages of project development can support informed planning and decision-making while helping to timeously 'iron out' obstacles that might otherwise result in delays and additional costs to the project proponent. Such a proactive approach can:

- Show the decision-making authority that potential conflict between biodiversity priorities and other landuses has been identified and resolved by well-informed project planning;
- Allow the proponent to take an informed decision about the biodiversity (and administrative and, by implication, financial) risks of proceeding with a particular project; and
- Identify the scope, type and intensity of environmental assessment that is likely to be required if an application were to proceed.

This approach also supports best practice in environmental assessment and planning by:

- Ensuring that a project is consistent with the 'Duty of Care' principle (i.e. that the project proponent has taken reasonable measures to prevent significant degradation of the environment);
- Emphasising the fundamental role of alternatives in selecting the best practicable environmental option;
- Giving effect to the mitigation hierarchy, i.e the sequential avoidance, minimising, mitigating and remedying of impacts that may result in loss of biodiversity or disturbance to ecosystems; and
- Supporting the principle that environmental management must pay specific attention to planning procedures pertaining to sensitive, vulnerable, highly dynamic or stressed ecosystems.

Please feel free to contact me should you require any assistance or have any queries re: using the resources on our <http://biodiversityadvisor.sanbi.org> web portal. Yours sincerely Ntwanano Mendes

Comments and Responses 1607 Kelvin Power Station CCGT EIA WULA

Ntwanano Mendes

Mr Kyle Smith

Date 2024/02/14 Method Email

Comment

Dear Jolene, I trust you are well. We received this notice on our community group regarding the EIMS taking on the Environmental Authorisation Processes and provides your contact details Please can you provide us with more information as residents, what this means, how we are effected etc. Thank you Best regards,

Response

Good day, Thank you for your interest in the project. Please note that we are still in the early stages of the Environmental Impact Assessment (EIA) process and detailed studies are still being completed. You will be notified once the Scoping and EIA reports are available for public comment and review. Kindly find the attached Background Information Document. Please feel free to contact EIMS should you have any comments/queries regarding this project.

Date 2024/02/20 Method Email

Comment

Good day Jolene I would like to register as an Interested and Affected Party, regarding Kelvin Please advise how this can be done. Thank you Best regards,

Response

Dear Mr Smith, Thank you for your interest in the project and the phone call earlier. We have registered you as an Interested and Affected Party (I&AP) on this project for further communications regarding the project. All comments received from I&APs are recorded and addressed in the relevant environmental reports and are considered by the competent authority to ensure that a well-informed decision is made. Please feel free to contact EIMS should you have any comments/queries regarding this project.

Date 2024/02/22 Method Telephone

Comment

EIMS returned a call to the I&AP who requested to be registered for the Kelvin project as they live in the area. The I&AP confirmed that they had seen the notification on a community group and the site notices that had been put up in the area. The I&AP provided their email address.

Response

EIMS recorded the I&AP's contact details and sent a response email to confirm their registration.

Date 2024/02/22 Method Email

Comment

Thank you so much Jolene appreciate. Best regards,

Response

EIMS noted the response as receipt of the email sent to the I&AP dated 2024/02/22

Date 2024/02/27 Method Email

Comment

Response

Comments and Responses 1607 Kelvin Power Station CCGT EIA WULA

Mr Kyle Smith

Thank you Jolene Best regards,

EIMS noted the response as acknowledgement of receipt of the email sent to the I&AP dated 2024/02/27.

Date 2024/03/15 Method Email

Comment

Thank you Best regards

Response

EIMS noted the response as acknowledgement of receipt of the Scoping Report Availability and Public Open Day notification.

Mr Cheleng Khotle

Date 2024/03/26 Method Email

Comment

Good Day AS discussed, last week I talked to a Gentle who promised he will give my details to Ms. Jolene Weber as she was on leave. Nobody has contacted me yet. May you kindly ask her to assist us in registering Ekurhuleni Health District under I&AP so that we can positively participate in this process. Your assistance will be appreciated. Thanks

Response

Good day Mr Khotle, Thank you for your interest in the project. We have registered the Ekurhuleni Health District as an Interested and Affected Party (I&AP) on this project for further communications regarding the project. All comments received from I&APs are recorded and addressed in the relevant environmental reports and are considered by the competent authority to ensure that a well-informed decision is made. Please feel free to contact EIMS should you have any comments/queries regarding this project.

Lumka Notuku

Date 2024/07/26 Method Email

Comment

Sir/Madam, I hope you're well. I'm doing some research for an upcoming EIA and would like to follow up on this project (Kelvin CCGT Power station), EIA reference: 12/12/20/2147. I'd like to know if there were any appeals to the EIA being approved by the competent authority. I'd essentially like to understand if the project received any negative attention. Please get back to me with feedback, your help will be greatly appreciated.

Response

Dear Lumka, Thank you for your email and interest in the Kelvin Power Station CCGT Plant project. Kindly note that the project is still in the EIA phase and therefore, no appeals have been made. The Draft Scoping Report can be found on the EIMS public participation website: <https://www.eims.co.za/public-participation/> This email serves to inform you that you have been registered as an Interested & Affected Party (I&AP) for this project and you will receive further communication regarding this project and opportunities for Public Participation. Please feel free to contact EIMS should you have any comments/queries regarding the Kelvin Power Station CCGT Plant project.

Date 2024/07/26 Method Email

Comment

Response

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Lumka Notuku

Noted, thanks Jolene.

EIMS noted the response as acknowledgement of receipt of the previous response.

Noluthando Maraqana

Date 2024/02/15 Method Email

Comment

Good day Thank you for your enquiry. 1. Will these cylinders be for your own use or for the purpose of resale? 2. How many cylinders will you be needing? 3. Where are you based? 4. What application will the gas be used for? (e.g., Lab use/ Laser use /Workshop/Freshline etc.?) 5. Who's currently supplying you? 6. Name of Company?

Response

Good day, Thank you for your email. Kindly note that this is a notification regarding opportunity to participate in the Environmental Authorisation application process for the proposed project as per the National Environmental Management Act (NEMA) Environmental Impact Assessment (EIA) Regulations, 2014 as amended. As part of the Public Participation Process stipulated in the NEMA EIA Regulations, we identified Air Products as a potential Interested and Affected Party (I&AP). We are not making an enquiry to Air Products, rather the intention of this notification to I&APs (Air Products in this case) is to allow the I&AP the opportunity to participate in the public participation process required as part of the environmental authorisation process. All comments received by I&APs are recorded and addressed in the relevant environmental reports which are sent to the competent authority to assist in granting or refusing an environmental authorisation. We hope that this clarifies any confusion that our notification may have caused. Please feel free to contact EIMS should you have any comments/queries regarding the proposed Kelvin Power Station CCGT project.

Date 2024/03/01 Method Email

Comment

Good day *** Trust you are well, please can you kindly assist with the below enquiry.

Response

EIMS noted the email as part of internal correspondences. No response was necessary.

Mr Cedric du Trevou

Date 2024/02/15 Method Email

Comment

Good day Jolene Webber , Thanks for the correspondence with regards to the proposed authorization application for Kelvin Power combined gas turbine plant . We are bordering the power station *** ** and would like some clarification on the potential impact that it would have on business and the surroundings . If we could be added to the public participation communication list it would be appreciated . Kind regards

Response

Good day, Thank you for your interest in the project. Please note that we are still in the early stages of the Environmental Impact Assessment (EIA) process and detailed studies are still being completed. We have registered you as an Interested and Affected Party (I&AP) on this project for further communications regarding the project. All comments received from I&APs are recorded and addressed in the relevant environmental reports and are considered by the competent authority to ensure that a well-informed decision is made. You will be notified once the Scoping and EIA reports are available for public comment and review. Kindly find the

Comments and Responses 1607 Kelvin Power Station CCGT EIA WULA

Mr Cedric du Trevou

attached Background Information Document. Please feel free to contact EIMS should you have any comments/queries regarding this project.

Date 2024/02/28 Method Email

Comment

Good morning Jolene , Thanks very much for your response and for adding me to the I&AP much appreciated. Will let you know should anything come up . Thanks again . Kind regards

Response

EIMS noted the response as acknowledgement of receipt of the email sent to the I&AP dated 2024/02/27.

Hubert Luvalo

Date 2024/09/20 Method Email

Comment

Morning Jolene I am writing this email to check if we (Gautrain) can still submit our comments in respect of the Kelvin Power Station EIA process. We have reviewed the report published for public comments and we have some concerns as Kelvin Power is very close to the Gautrain line and Gautrain has an Interface Agreement in respect of railway operations. We will consolidate our comments and formally submit our comments within the time frame you give us. Looking forward to your favourable response in this request.

Response

Good morning Hubert, Thank you for your email. Kindly note that the review period for the Draft EIA Report has ended as of the 16th of September 2024. The final EIA report is being submitted today in order to meet the legal deadline for submission, therefore, we are unable to allow an extension. However, please send the comments as soon as possible so that we may pass it on to the Competent Authority (the Department of Forestry, Fisheries & the Environment) as late comments for their consideration in the decision-making process for this project. As a registered Interested & Affected Party (I&AP) you will be notified of the decision.

Date 2024/09/20 Method Email

Comment

Morning Jolene Thank you so much for the below speedy response. I will consolidate the comments and submit before end of the next week 27/09/2024.

Response

EIMS noted the response. As communicated with the I&AP, any comments they provide will be passed on to the Competent Authority.

Francina Mokoma

Date 2024/05/14 Method Email

Comment

Good day applicant Kindly send motivation, sketch plan, locality map and tittle deed and any other supporting documents to the department in order for us to process your application Regards

Response

Good day, Thank you for your email. Kindly note that EIMS have been appointed to undertake the necessary environmental authorisation process for the proposed Kelvin Power Station CCGT project – we are not making an application to DALRRD. As part of the public participation process, DALRRD was identified as a possible commenting authority. Kindly find the attached locality map and Background Information Document. Please note that the commenting period for the Draft

Comments and Responses 1607 Kelvin Power Station CCGT EIA WULA

Francina Mokoma

Scoping Report is over, however, your comments will be included in the relevant environmental reports. This email serves to inform you that you (@Francina Mokoma) have been registered as an Interested & Affected Party (I&AP) for this project. All registered I&APs will continue to receive communication regarding this project. Please feel free to contact EIMS should you have any queries/comments regarding this project

Mr Nicholas Mutomba

Date 2024/02/15 Method Email

Comment

Good Day As a directly affected landowner in the area covered by this project, please include me in your data base of I@APs. Contact details are as per below signature card. Best Regards

Response

Good day, Thank you for your email and interest in the project. We have registered you as an Interested and Affected Party (I&AP) on this project for further communications regarding the project. All comments received from I&APs are recorded and addressed in the relevant environmental reports and are considered by the competent authority to ensure that a well-informed decision is made. Please feel free to contact EIMS should you have any comments/queries regarding this project.

Reuben Holland

Date 2024/05/30 Method Email

Comment

For the attention of the EIMS Public Participation Team, I am emailing you to request that Natural Justice: Lawyers for the Community and the Environment be registered as an Interested and Affected Party for the project at Kelvin Power Station. The EIMS Reference Number is 1607. To ensure no communication is missed, please register the following emails as contacts at Natural Justice: *** and ***. Many thanks in advance, *** Legal Intern, Natural Justice

Response

Good day Reuben, Thank you for your email and interest in the Kelvin Power Station Combined Cycle Gas Turbine Plant project. We confirm that you, *** and *** have been registered as Interested and Affected Parties (I&APs) for further communication regarding this project. Please feel free to contact EIMS should you have any queries/comments regarding this project.

Evelyn Shogole

Date 2024/03/15 Method Email

Comment

Good day, Please find attached comments for your consideration. Regards, [Attachment]: Dear Sir/ Madam RE: COMMENTS ON THE NOTIFICATION REGARDING OPPORTUNITY TO PARTICIPATE IN ENVIRONMENTAL AUTHORISATION APPLICATION PROCESS FOR THE PROPOSED KELVIN POWER STATION COMBINED CYCLE GAS TURBINE PLANT, IN THE EKURHULENI

Response

Good day, Thank you for your email. We acknowledge receipt of the comments provided by SACAA. The applicant (Kelvin Power (Pty) Ltd) will be informed of this requirement and a formal application, if required, will be submitted by the applicant prior to commencement. Kindly note that this email also serves to confirm that you, and obstacles@caa.co.za have been registered as

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Evelyn Shogole

METROPOLITAN MUNICIPALITY, GAUTENG PROVINCE, SOUTH AFRICA. We acknowledge receipt of email dated 16 February 2024. The South African Civil Aviation Authority (CAA) is an agency of the Department of Transport (DoT). The Civil Aviation Act 13 of 2009 provides for the establishment of the CAA as a stand-alone authority mandated with controlling, promoting, regulating, supporting, developing, enforcing and continuously improving levels of safety and security throughout the civil aviation industry. The CAA exercises this mandate through the Civil Aviation Regulations (CARs). Please see our comments below: The proposed establishment of combined cycle gas turbine power plant will require a formal obstacle assessment to determine whether the proposed will pose a threat towards the safety of flights in anyway. The client must follow the application procedure and process must be followed as published on the SACAA website: <https://www.caa.co.za/industry-information/obstacles/>.The application must be forwarded to obstacles@caa.co.za together with the application:

- A kmz/kml (Google Earth) file reflecting the footprint to the proposed development site.
- Provide coordinates, Height, and Elevation as per excel spreadsheet attached herein.
- Transmission (Powerline) layout, include number of Pylons, Maximum height, and coordinates on the excel sheet attached herein (if there is a transmission line associated to the proposed).
- Also indicate the highest structure of the project & the Overhead electric power transmission line.

Yours sincerely, Ms. Evelyn Shogole Aviation Environmental Compliance Department

Interested & Affected Parties (I&APs) for this project to receive further communication regarding the project. Please feel free to contact EIMS should you have any comments/queries regarding the project.

Mr Robert Couperthwaite

Date 2024/02/15 Method Email

Comment

Dear Jolene I wish to be registered as an interested and affected party for the above EIA. Reason:- I am the owner of ***, situated at ***. Our property is within a few hundred metres of the Kelvin Power Station fence as the crow flies. My company employs 12 full time employees on these premises. We have several vehicles that use the roads around Kelvin Power Station. Regards

Response

Good day, Thank you for your email and interest in the project. We have registered you as an Interested and Affected Party (I&AP) on this project for further communications regarding the project. All comments received from I&APs are recorded and addressed in the relevant environmental reports and are considered by the competent authority to ensure that a well-informed decision is made. Please feel free to contact EIMS should you have any comments/queries regarding this project.

Date 2024/03/19 Method Telephone

Comment

EIMS received a call from Robert from Structures 2000. The I&AP acknowledged receipt of the DSR and Open Day notification. The I&AP stated that they have comments regarding the project and asked if they should wait to ask during the Open Day. The I&AP confirmed the correct project email address for their comment to be sent to.

Response

EIMS confirmed that the I&AP was welcome to send through their comments in the meantime for consideration prior to the Open Day or to make EIMS aware of their comment in preparation for the Open Day.

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Mr Robert Couperthwaite

Date 2024/04/17 Method Email

Comment

Dear Jolene Thank you for the invitation to the presentation at Kelvin Power Station recently. It was good to meet the people and I was impressed with what I saw. Please include the following comment/request for consideration in the main EIA: - I am a business and property owner for 25 years in Spartan Extension 1, less than 1 km as the crow flies from Kelvin. I have grown used to the look of the cooling Towers and the large brick buildings which houses the boilers and compressors. Indeed I believe that they are an integral part of the heritage of the area. I therefore make an earnest request for these structures to be preserved, if at all possible. I have seen both in South Africa and worldwide how large industrial buildings can be re-purposed, while still retaining their look. In fact, they often look better than they did before, but still retain their character. Please can the EIA look at ways to achieve this. Kind regards Robert Couperthwaite

Response

Dear Mr Couperthwaite, Thank you for your email and continuous involvement in the Public Participation Process for the Kelvin Power Station CCGT Plant Project. Your comments are duly noted and will be captured in the environmental reports for consideration by the Competent Authority. Kindly see the below response to your comments: "I am a business and property owner for 25 years in Spartan Extension 1, less than 1 km as the crow flies from Kelvin. I have grown used to the look of the cooling Towers and the large brick buildings which houses the boilers and compressors. Indeed I believe that they are an integral part of the heritage of the area. I therefore make an earnest request for these structures to be preserved, if at all possible. I have seen both in South Africa and worldwide how large industrial buildings can be re-purposed, while still retaining their look. In fact, they often look better than they did before, but still retain their character. Please can the EIA look at ways to achieve this." The site proposed for the CCGT plant is the old A-Station site. Kindly note that a separate authorisation process for the decommissioning of the old A-Station site, which included a heritage assessment, has already been undertaken and granted approval. Much of the machinery and technology associated with the A-Station (although outdated and obsolete) forms part of the history of Kelvin Power Station and of the way electrical power generation was generated in the past. The heritage specialist that was involved in the previous decommissioning application gave the following recommendations to mitigate the impacts of the decommissioning and proposed demolition of the A-Station, and to preserve the history of Kelvin Power Station/electrical power generation: • A selection of the old machinery, equipment and tools associated with the A station is to be preserved and displayed at the Kelvin Power Station as part of the preservation of its history; • The provision & use of the non-sensitive and non-confidential original drawings and plans of A-Station as part of a display on the history of Kelvin Power Station at the site; and • The erection of a display panel or panels describing the history of Kelvin Power Station and its function and role in the generation and supply of electricity to the greater Johannesburg region. Due to the current layout of the proposed CCGT plant, the cooling towers for the A-Station will most likely be demolished as there is limited space available, however, the B-Station towers will still remain. Kindly note that analysis of the CCGT layout alternatives considered two main factors, namely, the land available and equipment layout. The assessment for the optimum location of the proposed development considered many aspects such as the decommissioning and demolition of the A-station infrastructure including the three cooling towers and location of existing servitudes, environmental, social, health and safety aspects and requirements both during construction and operational activities, as well as the need for temporary laydown areas, traffic, access and egress and optimisation and utilisation of existing infrastructure. A detailed analysis of each of the proposed layout designs submitted for optimisation of the CCGT plant and associated auxiliary

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Mr Robert Couperthwaite

equipment was undertaken on the identified land available for redevelopment. Following consideration of the various layout designs being proposed i.e., demolition, construction, commissioning, operational, maintenance, environmental, social, health and safety as well as access during these phases. Having identified the optimum configuration for CCGT plant layout, additional cognisance was considered for the placement of cooling towers downstream of prevailing winds, minor adjustments to the substation and evacuation transmission line's location, as well as the proximity of gas turbine and cooling tower to neighbours. Therefore, there is limited opportunity to avoid removal of the A-Station cooling towers. Please feel free to contact EIMS should you have any further comments/queries regarding this project.

Yolande Visagie

Date 2024/09/02 Method Email

Comment

Hi EIMS Please can I be added to update information on this project and other projects in the Energy large scale projects for Full wrap EPC. Best regards

Response

Good day, Thank you for your email. Kindly note that EIMS has been appointed as independent Environmental Consultants to undertake the necessary environmental authorisation processes. The aim of our involvement is to acquire input/solicit comment from the public regarding the environmental application and as such have no involvement in Kelvin Power's hiring/procurement processes. Kindly find the attached notification regarding the availability of the draft EIA report for public review and comment. Please note that all comments on the draft EIA report must be submitted no later than the 16th of September 2024. This email also serves to inform you that you have been registered as an Interested and Affected Party (I&AP) for this project for further communications regarding this project. Please feel free to contact EIMS should you have any comments/queries regarding the proposed Kelvin Power Station CCGT project.

Michele Visagie

Date 2024/08/21 Method Email

Comment

Good Day Jolene, I hope this message finds you well. I am writing to register for the EIMS Reference Number: 1607 scheduled for 27 August 2024. Please find my details below: • Full Name: Michele Visagie • Organization Industrial Gas Users Association Southern Africa (IGUA-SA) • Email Address: *** • Phone Number: *** If there are any additional forms or information needed from me, please let me know. I am looking forward to attending and participating in the event. Thank you for your assistance.

Response

Good day Michele, Thank you for your email and interest in the proposed project. We have registered you as an Interested & Affected Party (I&AP) for further communications regarding this project. All registered I&APs will receive communication regarding the project and opportunities for public participation. Kindly find the attached notification regarding the availability of the Draft EIA Report for public review and comment, and details regarding the Public Open Day to be held on the 27th of August 2024. Please feel free to contact EIMS should you have any queries or comments regarding this project.

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Brenda

Date 2024/08/26 Method Telephone

Comment

EIMS called the I&AP to confirm whether they had received the notification regarding the Draft EIA Report Availability and Public Open Day. The I&AP confirmed their email address and requested that the notification be sent to them.

Response

Dear Brenda, Thank you for taking our call earlier. We wish to remind you of the Public Open Day that will be held tomorrow (27 August 2024) for the proposed Kelvin Power Station Combined Cycle Gas Turbine Plant, in the Ekurhuleni Metropolitan Municipality, Gauteng Province. Kindly find the attached notification regarding the availability of the Draft EIA Report, details of the scheduled Open Day and Background Information Document. This email serves to confirm that you have been registered as an Interested & Affected Party (IA&P) for this project and you will continue to receive communication regarding this project. Please feel free to contact EIMS should you have any comments/queries regarding this project.

Mr Dennis Broski

Date 2024/03/14 Method Telephone

Comment

EIMS received a call from the I&AP. The I&AP requested information on how to register as an Interested & Affected Party for the project. EIMS explained that they could provide their contact details to be registered as an I&AP. The I&AP provided his email address and confirmed his contact number to be used when registering him as an I&AP.

Response

EIMS registered the I&AP as per the request.

Wayne Glossop

Date 2024/03/15 Method Email

Comment

PROJECT REFERENCE NUMBER: 1607 Good day, I have recently come across the EIA for the Kelvin 600MW CCGT gas project and wish to be registered as an I&AP. Unfortunately, the link to the Appendix C (which I presume is the application form for I&AP's) was not working on your website hence my email request here. <https://www.eims.co.za/wp-content/uploads/2024/Public/1607/DSR/AppC.zip> I am an independent consultant in the Gas Power development space and have an interest in understanding the progress of this project. Kind regards,

Response

Good day, Thank you for your email and interest in the project. We have registered you as an Interested and Affected Party (I&AP) on this project for further communications regarding the project. All comments received from I&APs are recorded and addressed in the relevant environmental reports and are considered by the competent authority to ensure that a well-informed decision is made. The link appears to be working on our side, kindly try the following link: <https://www.eims.co.za/public-participation/> Kindly also find the attached Appendix C zip file. Please feel free to contact EIMS should you have any comments/queries regarding this project or if you require any further assistance accessing the information.

Solomon Maruma

Comments and Responses 1607 Kelvin Power Station CCGT EIA WULA

Solomon Maruma

Date 2024/03/05 Method Email

Comment

Good day Please note that the whole farm with its portions is under claim. The claims were submitted by different claimants. The exact portion will only be determined during the investigation of the claim, which the Commission is currently interdicted by the Constitutional Court judgement not to work on the claims that were lodged between 2014 and 2016 as stated in the letter that was given to you. With regard to your request for a map, our office does not keep maps, we only deal with land claims. If our land claim researchers need maps, they contact on of the branches that are dealing with maps within the department Regards

Response

Good day, Thank you for your feedback. Given the limitations in determining the exact farm portion, we would like to kindly request the contact information of the land claimants indicated in the letter to facilitate direct communication regarding the ongoing project. If obtaining this information isn't feasible, would you be willing to receive the project details from us and relay them to all identified land claimants on our behalf?

Date 2024/03/06 Method Email

Comment

Good day Please note that the Commission is not allowed to give claimants' contacts to the 3rd party without their consent, further note that land claims are lodged against the state, and not against the land owners. Please note that since the claims affecting your property are interdicted by the constitutional court judgement, the commission is not allowed to do anything that may be seen as processing of the claims. Regards

Response

Good day, I acknowledge your feedback. Would you be able to circulate or inform the land claimants about the ongoing EIA process on their respective farm portions? It's essential to ensure their awareness of the ongoing development, as they may also hold an interest in the proposed project.

Date 2024/08/19 Method Email

Comment

Good day colleagues Please find land claim enquiry for your attention. Regards

Response

EIMS noted the email as part of internal correspondence at DALRRD.

Fire OP SA

Date 2024/09/09 Method Email

Comment

Good day Sir I hope this message finds you well. I'm contacting you from the Client Relations Manager's office. Attached, you will find a letter of introduction. We're eager to meet with you to discuss a potential business opportunity further. We kindly ask you to accept our invitation for a meeting. We are flexible and can meet at your convenience. We would like to share with you the people of Gauteng what we have accomplished for the greater part of Johannesburg. Thank you, and I look forward to hearing from you soon.

Response

Good day, Thank you for your email. Kindly note that EIMS has been appointed as independent Environmental Consultants to undertake the necessary environmental authorisation processes. The aim of our involvement is to acquire input/solicit comment from the public regarding the environmental application and as such have no involvement in Kelvin Power's hiring/procurement processes. Your email has been passed on to Kelvin Power. This email also serves to inform you that you have been registered as an Interested and Affected Party (I&AP) for this project for further communications regarding this project. Kindly find the attached notification regarding the availability of the draft EIA report for public review and comment. Please note that all comments

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Fire OP SA

on the draft EIA report must be submitted no later than the 16th of September 2024. Please feel free to contact EIMS should you have any comments/queries regarding the proposed Kelvin Power Station CCGT project.

Xolani Innocent Sithole

Date 2024/03/07 Method Email

Comment

Dear Sir/Madam, I am a recent graduate in mechanical engineering from University of Johannesburg, and I am looking for a 3 months vacation work position to help me fully complete my degree. I would greatly appreciate any assistance you can provide in helping me find a position that will utilize my skills and theory part of my studies. I am confident that I have the necessary skills and abilities to be a valuable asset to any organization. Thank you for your time and consideration. Please see the attached CV, & WIL Letter below. Yours Sincerely,

Response

Good day, Thank you for your email. Kindly note that EIMS has been appointed as independent Environmental Consultants to undertake the necessary environmental authorisation processes. The aim of our involvement is to acquire input/solicit comment from the public regarding the environmental application and as such have no involvement in Kelvin Power's hiring processes. This email also serves to inform you that you have been registered as an Interested and Affected Party (I&AP) for this project for further communications regarding this project. Please feel free to contact EIMS should you have any comments/queries regarding the proposed Kelvin Power Station CCGT project.

Sindiso Dabata

Date 2024/02/17 Method Email

Comment

Good morning Jolene Webber We wish to declare our interest to the new Kelvin power station ,for future prospects kindly register our company Thuls and S Construction on your companies database . kind Regards

Response

Good day, Thank you for your email. Kindly note that EIMS has been appointed as independent Environmental Assessment Practitioner (EAP) to undertake the necessary environmental authorisation application processes. The aim of our involvement is to acquire input/solicit comment from the public regarding the environmental application and as such are not involved in Kelvin Power's hiring and/or procurement processes. This email also serves to inform you that you have been registered as an Interested and Affected Party (I&AP) for this project for further communications regarding this project.

Date 2024/03/02 Method Email

Comment

Thank you for the feedback.

Response

EIMS noted the response as acknowledgement of receipt of the previous email.

Desiree Kgole

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Desiree Kgole

Date 2024/03/05 Method Email

Comment

Response

Good day Your enquiry to require supplementary information on the property in question is hereby acknowledged, Ms *** and Mr *** will be able to assist you further. regards

EIMS noted the response as acknowledgement of the enquiry sent to DALRRD on 4 March 2024.

Comments and Response Table regarding the comments provided by the Department of Forestry, Fisheries & the Environment (DFFE) on 2024/04/15

COMMENT	RESPONSE
<p>Dear Mr Von Meyer</p> <p>COMMENTS ON THE DRAFT SCOPING REPORT FOR THE PROPOSED KELVIN POWER COMBINED CYCLE GAS TURBINE PROJECT, CITY OF EKURHULENI METROPOLITAN MUNICIPALITY, GAUTENG PROVINCE</p> <p>The Application for Environmental Authorisation and Draft Scoping Report (SR) dated March 2024 and received by the Department on 12 March 2024, refer.</p> <p><u>This letter serves to inform you that the following information must be included to the Final Scoping Report:</u></p>	
<p><u>(a) Listed Activities</u></p> <ul style="list-style-type: none"> • Please ensure that all relevant listed activities are applied for, are specific and can be linked to the development activity or infrastructure as described in the project description. • It is imperative that the relevant authorities are continuously involved throughout the Scoping and EIA process as the development property possibly falls within geographically designated areas in terms of numerous GN R. 985 Activities. Written comments must be obtained from the relevant authorities and submitted to this Department. In addition, a graphical representation of the proposed development within the respective geographical areas must be provided. 	<ul style="list-style-type: none"> • It is understood that the project description describes the proposed development activities and required infrastructure adequately and can be linked to the activities applied for. • Efforts to identify all possible Interested & Affected Parties including all possibly affected authorities have been made. Various Organs of State at National, Provincial and Local levels were pre-identified and notified of the Scoping and EIA Process through the Call to Register notifications, Emails and Faxes and will continuously be informed of the various opportunities to participate in the authorisation process being undertaken for the Kelvin Power Station CCGT. The Scoping Report includes various maps showing the different geographical designated areas such as the Listing Notice 3 Map included in Appendix B of the Scoping Report and the Gauteng Provincial Environmental Management Framework map (GPEMF) included in Section 5.24 of the Scoping Report.

COMMENT	RESPONSE
<p><u>(b) Project Description</u></p> <ul style="list-style-type: none"> The SR must include the technical details of the proposed facility in a table format as well as their description and/or dimensions. A sample for the minimum information required is listed under Annexure 2 below. 	<p>A Table has been included in the FSR (Table 6) showing the dimensions and descriptions of key infrastructure. Further detail will be provided in the EIA report once detailed designs are available.</p>
<p><u>(c) Public Participation Process</u></p> <ul style="list-style-type: none"> The Public Participation Process must be conducted in terms of Regulation 39, 40 41, 42, 43 & 44 of the EIA Regulations 2014, as amended. Please ensure that all issues raised, and comments received during the circulation of the SR from registered I&APs and organs of state which have jurisdiction (including this Department's Biodiversity Section, Air Quality Section and Climate Change Section) in respect of the proposed activity are adequately addressed in the Final SR. Proof of correspondence with the various stakeholders must be included in the Final SR. Should you be unable to obtain comments, proof should be submitted to the Department of the attempts that were made to obtain comments. A comments and response trail report (C&R) must be submitted with the final SR. The C&R report must incorporate all historical comments for this development. The C&R report must be a separate document from the main report and the format must be in the table format as indicated in Appendix 1 of this comments letter. Please refrain from summarising comments made by I&APs. All comments from I&APs must be copied verbatim and responded to clearly. Please note that a response such as "Noted" is not regarded as an adequate response to I&AP's comments. The final SR must provide evidence that all identified and relevant competent authorities have been given an opportunity to comment on the proposed development. 	<ul style="list-style-type: none"> The Public Participation Process has been undertaken in accordance with Chapter 6 of the EIA regulations. Kindly refer to section 8 of the Scoping Report and Appendix C for details of the PPP that has been undertaken and associated proof. Comment has been noted. All comments received during the Scoping Report Review Period have been responded to and recorded in the Scoping Report and Public Participation Report attached to the Scoping Report as Appendix C. <ul style="list-style-type: none"> Efforts to identify and notify various I&APs and/or organs of state were made as described in Section 8 of the Scoping Report and all associated Public Participation documents and proofs have been attached to the Scoping Report as Appendix C. The Table of Correspondence is attached as an appendix to the Comments & Response Report/Public Participation Report. The Table of Correspondence table format matches that provided as Appendix 1 in the DFFE comment letter. Appendix C of the Scoping report highlights the details of the Public Participation process undertaken including the proofs of all notifications that were sent to the various pre-identified and registered I&APs and all comments received on the Scoping report.

COMMENT	RESPONSE
<p>(d) Specialist Assessments</p> <ul style="list-style-type: none"> • Please kindly ensure that the terms of reference for Specialist studies includes the following requirements: <ul style="list-style-type: none"> ➤ A detailed description of their methodology, as well as indicate the locations and descriptions of all infrastructure positions, and all other associated infrastructures that they have assessed and are recommending for Authorisations. ➤ a detailed description of all limitations to their studies. Please ensure that all specialist studies that are conducted have been commissioned in the right season, and providing that as a limitation will not be accepted. ➤ Please note that the Department considers a ‘no-go’ area, as an area where no development of any infrastructure is allowed; therefore, no development of associated infrastructure including access roads is allowed in the ‘no-go’ areas. ➤ If the appointed specialists specify contradicting recommendations, the EAP must indicate the most reasonable recommendation and substantiate this with defensible reasons and where necessary, include further expertise advice. ➤ All specialist studies must be final and provide detailed/practical mitigation measures for the preferred alternative and recommendations and must not recommend further studies to be completed post Should a specialist recommend specific mitigation measures; these must be clearly indicated. ➤ Regarding cumulative impacts: <ul style="list-style-type: none"> ○ Clearly defined cumulative impacts and where possible the size of the identified impact must be quantified and indicated, i.e. hectares of cumulatively transformed land. ○ A detailed process flow to indicate how the specialist’s recommendations, mitigation measures and conclusions from the various similar developments in the area were taken into consideration in the assessment of cumulative 	<ul style="list-style-type: none"> • The Specialist Terms of Reference, as per their various contracts and/or appointments include the requirements to ensure that the specialist studies are in line with the specialist protocols as per their respective fields of study (Procedures for the assessment and minimum criteria for reporting on identified environmental themes in terms of sections 24(5)(a) and (h) and 44 of the act, when applying for environmental authorisation – GN 320/2020). Furthermore, the EAP and the specialists are aware of the requirements to ensure that the reports comply with the requirements of the EIA Regulations Appendix 6. No Specialist Assessments were commissioned prior to the date in which the protocols came to date. • The EAP has taken note of the departments considerations and/or interpretation of ‘No-Go’ areas and the requirements for the EAP to recommend the best reasonable recommendation where necessary is noted. • It has been noted that all specialist studies must be final and provide detailed/practical mitigation measures for the preferred alternative and recommendations and must not recommend further studies to be completed post EIA study. • The EIMS Impact Rating methodology, as described in Section 10 of the Scoping Report ensures that cumulative impacts of the proposed development are accounted for when quantifying the Environmental Risk and subsequently the final Significance Rating. This Impact Rating methodology will be used by the various specialists in their assessments. • The scoping report has included an identification and preliminary assessment of possible impacts (Section 10.2) that are anticipated as a result of the proposed development. This section states that

COMMENT	RESPONSE
<p>impacts and when the conclusion and mitigation measures were drafted for this project.</p> <ul style="list-style-type: none"> ○ Identified cumulative impacts associated with the proposed development must be rated with the significance rating methodology used in the process. ○ The significance rating must also inform the need and desirability of the proposed development. ○ A cumulative impact environmental statement on whether the proposed development must proceed. <p>➤ It is further brought to your attention that Procedures for the Assessment and Minimum Criteria for Reporting on identified Environmental Themes in terms of Sections 24(5)(a) and (h) and 44 of the National Environmental Management Act, 1998, when applying for Environmental Authorisation, which were promulgated in Government Notice No. 320 of 20 March 2020 (i.e. “the Protocols”), and in Government Notice No. 1150 of 30 October 2020 (i.e. protocols for terrestrial plant and animal species), have come into effect.</p> <p>➤ Please ensure that specialist assessments are conducted in accordance with these protocols, except where the applicant provides proof to the competent authority that the specialist assessment affected by these protocols had been commissioned before the date on which the protocols came into effect, in which case Appendix 6 of the Environmental Impact Assessment Regulations, 2014, as amended, will apply to such applications. Please indicate in the report whether the protocols were applied.</p>	<p><i>the “potential cumulative impacts have been identified, evaluated, and mitigation measures suggested which will be updated during the detailed EIA phase level of investigation”</i></p> <ul style="list-style-type: none"> ● The scoping report discusses the anticipated impacts and the identified cumulative impacts which have been assessed based on the preliminary designs and specifications and will be updated during the EIA phase. ● A statement in the Need and Desirability Statement, section 6.1, was added to the scoping report under the Environmental considerations. It is highlighted that the final significance rating of impacts identified was low – medium, post mitigation and as such, no environmental fatal flaws were identified during the scoping phase. ● A cumulative impact environmental statement on whether the proposed development must proceed has been added to the FSR as sub-section 10.2.7. ● All specialist assessments will be undertaken in line with the NEMA requirements for specialists assessments and associated protocols.
<p>➤ Page 7 and 8 of the screening tool report have identified seventeen (17) specialist studies to be commissioned for the proposed project. However, the site verification report submitted only motivated nine (09) themes, as identified on page 6 of the screening tool. You are, therefore, required to include motivation for the other specialist assessment in the SSVR, indicating whether the study will be</p>	<ul style="list-style-type: none"> ● The SSVR has been updated to reflect the all the DFFE Screening Tool specialist reports identified, and the relevant motivations have been added where studies were not deemed necessary for the proposed project. ● Studies that were identified by the DFFE Screening Tool have been identified added to the SSVR and the relevant motivations for

COMMENT	RESPONSE
<p>commissioned in the EIAr. If the specialist study as identified by screening tool report will not be conducted for the proposed project, the motivation to be provided must provide reasons why the study is deemed not necessary for the project.</p> <ul style="list-style-type: none"> ➤ The plan of study also listed the specialist studies that will be commissioned for the proposed project; however, it does not consider the other specialist studies identified by the screening tool, such as Health Impact Assessment, Traffic Impact Assessment, Visual Impact assessment, and hydrological impact assessment. You are, therefore, required to provide motivation for why these studies are deemed not necessary for the proposed project. ➤ Kindly ensure to include, as part of the final SR, a table summarising the specialist studies required by the Screening Tool and the sensitivity rating of the Screening Tool (very high, high, medium, low), a column indicating the sensitivity of the site after the EAP/Specialist conducted the Site Verification Assessment and a column indicating whether these studies will be conducted or that compliance statement will be submitted during the EIAr phase. ➤ For the themes that have been identified as medium and low which requires compliance statements, please ensure that these specialists must be identified as specialist to be conducted who compliance statements are to be included in the EIAr. <p>Please note that the protocols require certain specialists to be SACNASP registered. As such, the Specialist Declaration of Interest forms must also indicate the scientific organization registration/member number and status of registration/membership for each specialist.</p>	<p>studies that were not deemed necessary by the EAP. A table listing all specialist studies identified by the screening tool has been added in Section 1.3 of the Scoping Report with the relevant motivations for the non-commissioning of the studies that were not deemed necessary by the EAP. A summary table of Specialist Studies to be undertaken is also available in Section 1.3 of the Scoping Report.</p> <ul style="list-style-type: none"> • Where compliance statements were deemed necessary, specialist compliance statements will be undertaken as per the DFFE screening tool. • The requirements for specialists to be SACNASP registered have been noted as described in the protocols is noted and specialist declaration forms, CVs and registrations will be appended to the various specialist reports in the EIA phase.
<p><u>(e) Cumulative Impacts</u></p> <ul style="list-style-type: none"> • Should there be any other similar projects within a 30km radius of the proposed development site, the cumulative impact assessment for all identified and assessed impacts must be refined to indicate the following: 	<ul style="list-style-type: none"> • The DFFE database of projects of projects has been searched for similar project within a 30km radius of the proposed development site. A map is included in the FSR showing the location of these developments (Figure 46), the closest being the approved PV facility undergoing amendment at OR Thambo. Further detail

COMMENT	RESPONSE
<ul style="list-style-type: none"> ○ Identified cumulative impacts must be clearly defined, and where possible the size of the identified impact must be quantified and indicated, i.e. hectares of cumulatively transformed land. ○ Detailed process flow and proof must be provided, to indicate how the specialist's recommendations, mitigation measures and conclusions from the various similar developments in the area were taken into consideration in the assessment of cumulative impacts and when the conclusion and mitigation measures were drafted for this project. ○ The cumulative impacts significance rating must also inform the need and desirability of the proposed development. ○ A cumulative impact environmental statement on whether the proposed development must proceed. 	<p>regarding cumulative impacts and a more detailed cumulative impact assessment will be provided in the EIA report once detailed specialist investigations are concluded. At this stage the cumulative impacts associated with the project are considered acceptable.</p> <ul style="list-style-type: none"> ● The EIMS Impact Rating methodology, as described in Section 10 of the Scoping Report ensures that cumulative impacts of the proposed development are accounted for when quantifying the Environmental Risk and subsequently the final Significance Rating.
<p>(f) Layout & Sensitivity Maps</p> <ul style="list-style-type: none"> ● The SR must include layout map which indicate the following: <ul style="list-style-type: none"> ○ Position of all infrastructure (gas turbine, steam turbine, heat recovery negenerator, mechanical draft cooling tower, Extra High Voltage (EHV) substation, exhaust stack, auxiliary buildings, etc), ○ The location of sensitive environmental features on site e.g., CBAs, heritage sites, wetlands, drainage lines etc. that will be affected. ○ Buffer areas; and ○ All “no-go” areas. ● The above map must be overlain with a sensitivity map and a cumulative map which shows neighbouring renewable energy developments. All available biodiversity information must be used in the finalisation of the map and infrastructure must not encroach on highly sensitive areas as far as possible. ● Ensure that similar colours are not used to differentiate between infrastructures. i.e., items must be easily distinguishable in the Legend. ● Google maps will not be accepted for decision-making purposes. 	<p>An updated map showing the described features has been included in Section 11 of the Scoping Report (Figure 48 & 49) and in Appendix B.</p> <p>At this stage no no-go areas or buffer areas have been identified. Specialist studies will form part of the EIA phase whereafter these areas may be identified.</p> <p>A separate cumulative map is included in the FSR (Figure 46) showing the location of the renewable energy applications and developments in the area in relation to the project site. It is not possible to show it on the same map due to legibility issues.</p> <p>It is not possible to change the colours on the layout – the layout info has been taken from a .dwg file. A zoomed-in layout map is included as Figure 5 in the FSR on which it should be easier to identify the layout features.</p> <p>Further maps will be provided in the EIA report with further detail regarding the specific infrastructure proposed on site once the detailed design information becomes available.</p>
<p>General</p>	<p>Comment noted.</p>

COMMENT

You are further reminded to comply with Regulation 21(1) of the NEMA EIA Regulations 2014, as amended, which states that:

“If S&EIR must be applied to an application, the applicant must, within 44 days of receipt of the application by the competent authority, submit to the competent authority a scoping report which has been subjected to a public participation process of at least 30 days and which reflects the incorporation of comments received, including any comments of the competent authority”

You are further reminded that the final SR to be submitted to this Department must comply with all the requirements in terms of the scope of assessment and content of Scoping reports in accordance with Appendix 2 and Regulation 21(1) of the EIA Regulations 2014, as amended.

Further note that in terms of Regulation 45 of the EIA Regulations 2014, as amended, this application will lapse if the applicant fails to meet any of the timeframes prescribed in terms of these Regulations, unless an extension has been granted in terms of Regulation 3(7).

You are hereby reminded of Section 24F of the National Environmental Management Act, Act No. 107 of 1998, as amended, that no activity may commence prior to an Environmental Authorisation being granted by the Department.

Yours sincerely

RESPONSE

Comments and Response Table sent to Dr Gwen Theron regarding the comments provided on 2024/04/17

Comments	Response
<p>The proposal is 100% contradicting the commitment of South Africa to move away from fossil fuel towards clean energy/. This fact in itself is a 100% fatal flaw of the project. The regulations in South Africa may allow the development of new fossil fuel plants, but if it is in contravention of the governmental commitment to clean energy – it must be questioned at the highest level.</p>	<p>Please note that the current electricity resource planning for the country (Integrated Resource Plan 2019) makes provision for gas from year 2024. With reference to section 5.22 and 5.23 of the scoping report, a Draft IRP (2023) has been published for comment as necessitated by changing circumstances. The IRP continues to highlight South Africa’s pursuit of a diversified energy mix that will provide security of supply while ensuring compliance with its emission reduction plan. The Draft IRP highlights that Gas to power technologies in the form of CCGT, Closed Cycle Gas Engine (CCGE) or Internal Combustion Engine (ICE) provide the flexibility required to complement renewable energy. The IRP is also considered and accounted for in South Africa’s current climate change commitments and Nationally Determined Commitments. Both the current and draft IRP make provision for natural gas in the future electricity infrastructure development planning.</p> <p>In addition, South Africa is developing a Gas Master Plan. The plan is currently before Cabinet for review. Gas fired power in South Africa is intended to supplement, not replace renewable power. Several European countries with much larger renewable penetration than South Africa have recognised the need for flexible efficient (gas fired) thermal power to supplement the rollout of renewable generation by providing flexible, reliable, dispatchable generation capacity to provide energy when the wind does not blow and the sun does not shine. Gas fired CCGT plants such as the one proposed by Kelvin Power can provide this flexible, efficient generation capacity.</p>
<p>It is submitted that the provisions of the Gauteng Pollution Buffer Zones Guideline, dated March 2017 must be taken into account in the submission and must consider the prescribed distance that any polluting facility must be located from any residential areas.</p> <p>The residential areas have been in the area for many years and have been subject to the polluting impacts of the Kelvin Power station for the same period. Two wrongs do not make a right.</p>	<p>The Gauteng Pollution Buffer Zone guidelines are included as a guideline in Section 5.25 of the scoping report. The GDARDs Gauteng Pollution Buffer Zones Guideline was developed to ensure that pollution buffer areas are created between the pollution sources and human settlements. A buffer zone in terms of the guideline refers to an area of land required to filter out the deleterious effects of the pollution source that is buffered (based on current understanding of the pollution type and mode of dispersal). The purpose of the guideline is to ensure that residents are protected from air emissions and noise from pollution generators and thereby establish buffers around them to ensure that only the compatible land uses are allowed in the buffer areas. These generic buffer zones are generally used by Metropolitan Municipalities within</p>

Comments	Response
	<p>Gauteng as guidelines specifically in the approval of new residential areas in close proximity to existing industries, landfill sites and tailings facilities.</p> <p>A review of the scope of the proposed development, the spatial location and GDARD's Gauteng Buffer Zone Guideline found that the proposed Kelvin CCGT powerplant plant in Kempton Park falls within Category 1. Category 1 industries have a best-case scenario buffer: of 1500m and worst-case buffer of 750m. Based on the layout provided the project is expected to be slightly closer than 750m to the closest residential receptors. The Pollution Buffer Zones are there to act as a guideline only. The existing Kelvin Power Station falls within Category 1 of the Buffer Zone Guideline and consequently is an existing constraint which should have and would have been considered by development proposals within proximity to the Kelvin Power Station. The proposed project, due to the fact that it is located within the existing Kelvin site, would not introduce a new restrictive buffer. It is agreed and acknowledged that the Gauteng Pollution Buffer Zone Guidelines are applicable and must be taking into consideration by the both the authorities and the EAP in the EIA process.</p> <p>On the available land identified for redevelopment, a detailed analysis was undertaken of each of the proposed layout design submitted for optimisation of the CCGT plant and associated auxiliary equipment. Having identified the optimum configuration for CCGT plant layout, additional cognisance was taken of the placement of cooling towers downstream of prevailing winds as well as the proximity of gas turbines and cooling towers to neighbours.</p> <p>It should also be noted that the current A-Station coal fired power station is currently being decommissioned and the B-Station remains operational. The new CCGT plant would essentially be replacing the A-Station coal-fired power station on the Kelvin property and replacing it with a cleaner source of energy production than the previous coal-fired station at the site.</p> <p>In the absence of project specific quantitative impact assessment, the guidelines represent a first order application of the precautionary principal to guide land development around a potential pollution source. The EIA will commission project specific specialist impact assessments (including noise and air quality) to define and quantify the potential impacts associated with the proposed new CCGT project and consequently make a risk-based recommendation on whether the project should proceed or not. The project specific EIA should supersede the generic guidance</p>

Comments	Response
	<p>offered by the guideline. GDARD will also be included as a commenting authority on the project and will need to advise in this respect.</p>
<p>The base line, ambient air quality studies must be provided, and the current and potential health-related impacts must be indicated. The Air quality cannot only indicate concentrations and dilution factors, it must look at historic and future health impacts.</p>	<p>Baseline information is included in chapter 9 of the scoping report. An Air Quality Impact Assessment (AQIA) is being conducted that will assess potential air quality impacts associated with the project, with consideration of the current baseline status of the air quality in the area, with respect to the National Ambient Air Quality Standards (NAAQS) which were developed for the protection of human health. The Air Quality Assessment will be undertaken to identify any air pollutants and sensitive receptors and suggest mitigation measures and management objectives where required. Historic impacts from the Kelvin power station fall outside the scope of the impact assessment for the proposed CCGT plant however the AQIA modelling will take into account the current baseline with respect to air quality impacts from the existing facilities at the power station. A human health risk and nuisance impact screening assessment based on NAAQS and dispersion simulation results will form part of the AQIA. NAAQS and inhalation health criteria are fundamental to effective air quality management, providing the link between the source of atmospheric emissions and the user of that air at the downstream receptor site. NAAQS and inhalation health criteria generally indicate safe daily exposure levels for the majority of the population, including the very young and the elderly, throughout an individual's lifetime. Criteria are normally given for specific averaging or exposure periods.</p> <p>As proposed by the AQ specialist, the AQIA will act a first screening in order to confirm if the pollutants from the new CCGT plant combined with the pollutants from existing sources would potentially exceed the NAAQS standards. If they do, then a separate health assessment would be considered in order to address these aspects. If not, the AQ specialist is of the opinion that no health assessment would be considered necessary for the project if the relevant safe exposure levels are shown to be not exceeded.</p>
<p>Detail assessments must be provided of both human, bird and animal impacts. Potential water and soil pollution.</p> <p>Extensive research has been done and it has been proven unconditionally that power plants can't be located inside built-up areas. And that the potential pollution cannot be adequately mitigated. The risks to all live forms are simply too high.</p>	<p>Impacts on biodiversity are discussed in Section 10.2.2.6 of the Scoping Report. Due to the nature of the proposed development being a brownfield development within an industrial area, it is not anticipated to pose any threats to biodiversity. A terrestrial biodiversity compliance as well as a soils compliance statement will be undertaken as</p>

Comments	Response
<p>The Environmental health specialist MUST be appointed on the specialist team – it is not good enough to only investigate the aspects identified in the BID.</p>	<p>part of this EIA process by a suitably qualified ecologist and soil scientist respectively and will be included as part of the EIA report.</p> <p>It is not clear exactly which research is being referred to. EIMS requests for the specific research being referred to be provided in order to be able to consider this as part of the EIA for the project. The main health related impacts are from the potential Air Quality impacts associated with the proposed CCGT plant. Noise impacts could also be considered as potential health impacts. Health associated impacts will form part of the air quality assessment that is being conducted as part of the EIA report for the project. A noise impact assessment will also be conducted to address potential noise impacts on human receptors due to the project activities.</p> <p>As stated above an AQIA is being conducted that will assess potential air quality impacts associated with the project, with consideration of the current baseline status of the air quality in the area, with respect to the NAAQS which were developed for the protection of human health. The Air Quality Assessment will be undertaken to identify any air pollutants and sensitive receptors and suggest mitigation measures and management objectives where required. Historic impacts from the Kelvin power station fall outside the scope of the impact assessment for the proposed CCGT plant however the AQIA modelling will take into account the current baseline with respect to air quality impacts from the existing facilities at the power station. It should also be noted that more stringent standards apply to the new CCGT project than the existing facilities. A human health risk and nuisance impact screening assessment based on NAAQS and dispersion simulation results will form part of the AQIA. NAAQS and inhalation health criteria are fundamental to effective air quality management, providing the link between the source of atmospheric emissions and the user of that air at the downstream receptor site. NAAQS and inhalation health criteria generally indicate safe daily exposure levels for the majority of the population, including the very young and the elderly, throughout an individual's lifetime.</p> <p>As proposed by the AQ specialist, the AQIA will act a first screening in order to confirm if the pollutants from the new CCGT plant combined with other existing pollution sources would potentially exceed the NAAQS standards. If they do then a separate health assessment would be considered in order to address these aspects, specifically the chance of any mortalities as a result of the CCGT project. If not, the AQ</p>

Comments	Response
	specialist is of the opinion that no health assessment would be considered necessary for the project.
<p>Furthermore, construction of the plant cannot overshadow the operational aspects and the storage of large quantities of GAS on the premises or the transportation of the gas via pipelines or tankers. The movement corridors and storage facilities must be investigated and the impact assessment cannot be restricted to the site alone. These must be thoroughly investigated. The source of the Gas must also be provided and potential impacts at the source must be identified and investigated.</p>	<p>The impacts associated with all phases (including construction and operational phase) of the project and associated activities have been identified and assessed (refer to section 10 of the scoping report).</p> <p>There will be no bulk storage of gas on the premises - the only gas on the site will be the small quantities of gas in the connecting pipeline. Kelvin plans to receive Natural Gas to the CCGT plant via Sasol's existing gas pipeline network. A pipeline connection will be required to connect to the existing gas pipeline network. The impacts associated with this connection are included in the impact assessment and will be assessed further in the EIA phase.</p> <p>Various gas suppliers are currently being engaged for the supply of gas to the CCGT plant via the existing Sasol gas pipeline system. The gas will be sourced from outside South Africa. A MHI quantitative risk assessment will however be undertaken during the EIA phase to assess the impact of any quantities of gas or other chemicals that may be stored on or transported to site as well as risks associated with the new gas pipelines leading to the site. Any modifications to the existing Sasol gas transportation network will be permitted by Sasol. It should be noted that a Sasol gas pipeline passes under the adjacent Isando Road.</p> <p>The source of gas will be an existing supplier, for which various permits and environmental approvals for the sourcing of this gas would already be in place. This EIA focuses on the CCGT project and associated facilities. Impacts at the source of the gas fall outside the scope of the EIA process.</p>
<ul style="list-style-type: none"> Air Quality Assessment ; - must include health impacts 	<p>As proposed by the AQ specialist, the AQIA will act a first screening in order to confirm if the pollutants from the new CCGT plant combined with other existing pollution sources would potentially exceed the NAAQS standards. If they do then a separate health assessment would be considered in order to address these aspects, specifically the chance of any mortalities as a result of the CCGT project. If not, the AQ specialist is of the opinion that no health assessment would be considered necessary for the project.</p>
<ul style="list-style-type: none"> Socio-economic Assessment; What is the brief that will be provided to the specialist - 	<p>The Plan of Study for the SIA is included in Section 12 of the Scoping Report. The following methodology is proposed:</p>

Comments**Response**

- The study will commence with a baseline description of the study area that will include a review of available literature. This will include relevant legislation and existing provincial and municipal documents and studies, as well as any additional literature that is deemed to be applicable to the study. This study will focus on the local and regional level.
- Necessary demographic data will be obtained from Stats SA and other available official documents.
- A stakeholder identification and analysis will be conducted to inform the impact assessment and assist with planning the fieldwork. Fieldwork will be used to obtain additional information and communicate with key stakeholders.
- Stakeholders typically include social structures such as ward councillors, municipal representatives, landowners, community representatives, farmer's associations, forums and political leaders, amongst others. Vulnerable stakeholders will be identified and consulted with in an appropriate manner.
- Information will be obtained via focus groups, formal and informal interviews, observation, immersions, in-the-moment discussion groups, the Internet and literature reviews. Notes will be kept of all interviews and focus groups.
- An interview schedule might be used instead of formal questionnaires. An interview schedule consists of a list of topics to be covered, but it is not as structured as an interview. It provides respondents with more freedom to elaborate on their views.
- The final report will focus on current conditions, providing baseline data. Each category will discuss the current state of affairs, but also investigate the possible impacts that might occur in future.
- Recommendations for mitigation will be made at the end of the report.

Comments	Response
	<ul style="list-style-type: none"> • The study will have a participatory focus. This implies that the study will focus strongly on including the local community and key stakeholders. Participatory methods will be used to identify local economic development projects. • Impacts will be rated according to the prescribed impact tables and risks will be calculated using social risk assessment methods. • Information obtained through the stakeholder engagement process will inform the writing of the report and associated documents.
Climate change Study; this must include carbon emissions and the carbon tax that will be paid by the installation	<p>The CCIA will include an assessment of carbon emissions. The carbon tax calculation will not form part of the climate change study, however Kelvin will need to ensure they comply with all requirements of the Carbon Tax Act.</p> <p>The following will be provided as part of the CCIA:</p> <ul style="list-style-type: none"> • Identification of the Transitional and Physical Risks associated with the project (as per the Task Force on Climate-related Financial Disclosures. • The GHG emissions during the construction and operation of the project compared to the global and national emission inventories; and compared to international benchmarks for the project. • The robustness of the project in terms of forecasted climate change impacts to the area over the lifetime of the project. • The vulnerability of communities in the immediate vicinity of the project to climate change. Proposed management and mitigation strategies. • Compile a report that complies with the requirements of o Appendix 6 of the EIA Regulations, 2014 (Government Notice (GN) R 982 of 2014, as amended); and/or The DFFE “Protocols for the assessment and minimum report content requirements of environmental impacts” (GN 320 of 2020 and GN 1150 of 2020); and/or Any other applicable sector-specific guidelines and protocols.
Noise Assessment; must include health impacts	The NIA will include an evaluation of potential noise impacts on human receptors due to project activities.
Heritage (including palaeontology) Assessment; - will the facility not be located on an existing industrial site – provide DFFE Scening results	Potential impacts on heritage resources are discussed in Section 10.2.2.8 of the Scoping Report. The DFFE screening tool identifies the site as falling into a low sensitivity area from a heritage and palaeontology perspective (refer to Appendix E of the Scoping Report). As per Section 12.2 of the Scoping Report, SAHRA will need to be

Comments	Response
	<p>consulted to determine if a new HIA is required Based on the low sensitivity of the area in terms of the DFFE Screening Tool and the fact that a previous HIA has already been conducted as part of the EIA for the decommissioning project, for which authorization has been received, it may be possible to obtain exemption from the requirements of the heritage and palaeontology assessment. This approach will be confirmed with the South African Heritage Resource Agency.</p>
<p>Major Hazard Installation (MHI) Assessment. Accepted</p>	<p>Comment noted. An MHI quantitative risk assessment will form part of the EIA assessment.</p>
<p>The technology that will be used must be provided and facilities that have been successfully operating with the same technology must be provided. The audit reports from those facilities must be made available as proof of claims for the technology proposed for the Kelvin plant.</p>	<p>A pre-feasibility study was undertaken for the development of a gas power plant with a power output of up to 600 MW. Various gas turbine technologies and configurations were considered. The selection of the technology to be adopted for the proposed power generation facility has considered the available technological and equipment alternatives. At this stage CCGT is considered the preferred technology. CCGT are noted to be more efficient than OCGTs as they can produce more power from less fuel, thus contributing to lower GHG emissions. Modern gas fired CCGT plants such as proposed by Kelvin Power are significantly more efficient (ie produce less CO2 per MW generated) than any other thermal power generation. New or prototypical technology will not be used. Any technology or equipment used in the Kelvin Power CCGT will need to have a proven track record.</p> <p>It is not clear exactly which audit reports are being referred to in the comment. This EIA focuses on the proposed CCGT plant at Kelvin Power Station only. Many new power plants across the globe utilize CCGT technology. Specific gas turbine technologies that are being considered for the project include the F, H and J class gas turbines.</p>
<p>Research from Harvard has shown that for GAS fired power plants. Pleas provide feedback on each fact and claim in this research report and how the proposed plant will address potentially similar results from the operations.</p> <p><i>Natural gas (also referred to as "methane gas" or "gas") is a mixture of fossil fuels in gaseous form, and is burned in gas turbines, engines and boilers to produce power. Gas used for power generation consists mainly of methane (generally about 85%), but can also contain propane, butane, nitrogen and other hydrocarbons.^[1] Natural gas fuel causes CO2 and NOx emissions,^[2] methane (CH4), PM, SOx, CO, formaldehyde, ammonia (NH3), and non-methane hydrocarbons (NMHCs).^{[3][4]} Fully combusted methane releases water and CO2, both of which are strong greenhouse gases, but other molecules in the fuel and air within a combustion chamber can also react to form other pollutants that are released into the air. The major pollutant of gas plants is NOx.^[5] There are two types of gas-fired</i></p>	<p>CCGT plants produce lower emissions compared to traditional coal-fired plants, the construction of the Kelvin Power CCGT plant will allow for Kelvin Power to align with global efforts to mitigate climate change and improve air quality whilst continuing to provide electricity.</p> <p>It should be noted that ground level concentrations of NOx can usually be minimised by increasing the stack height at the CCGT. Gas firing emits negligible or no PM (2.5 or 10) and no SOx given that there is no sulphur in the gas.</p> <p>At this stage the detailed AQ impact assessment has not been completed. This is proposed to be undertaken as part of the EIA phase reporting for the project. All potential air quality and emissions impacts from the project will be addressed</p>

Comments	Response
<p><i>power plants: combined cycle plants and simple cycle plants otherwise known as peaker plants. Peaker plants are less efficient and more polluting than combined cycle plants. Peaker plants can also generate more NOx and CO emissions.^[6]</i></p> <ul style="list-style-type: none"> • <i>Oxides of Nitrogen (NOx): Oxides of Nitrogen, more commonly referred to as NOx is released to the atmosphere during the combustion of methane. Nitrogen in the air and trapped in the fuel reacts with Oxygen molecules during combustion, creating NO and NO2 molecules during the reaction.^[1] These oxides of nitrogen are associated with a number of respiratory illnesses, such as:^{[7][8]}</i> <ul style="list-style-type: none"> ○ <i>Inflammation of the airways</i> ○ <i>Reduced lung function</i> ○ <i>Asthma symptoms</i> ○ <i>Chronic bronchitis</i> ○ <i>Increased susceptibility to respiratory infection.</i> • <i>Carbon Monoxide (CO) and Volatile Organic Compounds (VOCs): Although typically fairly low in gas plants with higher combustion efficiencies, gas plants also emit carbon monoxide and volatile organic compounds (VOCs) into the air.^[1] Both of these pollutants are hydrocarbons in the fuel that are not fully burned during the combustion process, and are more directly harmful to human health than fully combusted hydrocarbons (such as CO2).</i> <ul style="list-style-type: none"> ○ <i>Carbon monoxide can bind with hemoglobin in the blood, causing poor oxygen circulation in the body. This can cause fatigue, headaches, and dizziness, as well as adversely impact the health of unborn babies.^[9]</i> ○ <i>Other VOCs have a host of related health impacts, with some compounds causing cardiovascular diseases and lung cancer.^[10]</i> • <i>Ozone (O3): Although ozone is not directly emitted during combustion, NOx and VOCs released from gas plants can react with other compounds in the presence of sunlight can create ground level ozone.^[11]</i> <ul style="list-style-type: none"> ○ <i>Breathing in ground level ozone, particularly at higher temperatures, has also been correlated with increased vulnerability to many respiratory illnesses.^[12]</i> • <i>Particulate Matter (PM): Particulate matter (PM) refers to combinations of compounds that form particles of a certain size in the air. Although burning gas is not quite as “dirty” as burning coal, fine particulate matter PM2.5 (less than 2.5 microns in width) is still released into the atmosphere during the combustion process.^[13] Additionally, NOx and VOCs that are emitted by gas plants can also</i> 	<p>thoroughly as part of this assessment. The sulphur and nitrogen deposition can be quantified. The other pollutants listed will also be considered qualitatively in the AQIA.</p>

Comments	Response
<p>combine with other compounds in the air to form PM2.5 and PM10. These “secondary” emissions are considerably more significant than the direct emissions, and have the greatest impact on human health.^[14] Breathing in PM2.5 can cause:</p> <ul style="list-style-type: none"> ○ Lung cancer^[15] ○ Ischemic heart disease^[15] ○ Increased susceptibility to respiratory illnesses^[15] ○ Pre-term births^[13] ○ Low birth weight ○ Post neonatal mortality.^[13] ○ Children and the elderly are also more susceptible to the asthma and bronchitis.^[13] <p>A Harvard study from 2021 explores the impact of pollutants such as ammonia (NH₃), NO_x and PM2.5 released from burning gas in various industrial and residential settings on early mortality rates:^[16]</p> <ul style="list-style-type: none"> ● An increase of 1 microgram per cubic meter of PM2.5 leads to a 1.4% increase in the likelihood of early mortality. ● These emissions are responsible for approximately 10,000-15,000 cases of early mortality in the United States – or 21% of all annual deaths caused by air pollution from burning fuels. ● The proportion of emissions related early mortality attributed to gas and biomass combustion is now greater than coal overall, and gas emissions from stationary sources cause more deaths than coal in 19 states in 2017. <p>The Health and Environmental Alliance (HEAL) also estimates that emissions from gas plants are responsible for 2,800 premature deaths in Europe, as well as more than 15,000 cases of respiratory illnesses.^[15] They estimate the emissions are responsible for:</p> <ul style="list-style-type: none"> ● 17% of all lung cancer ● 12% of ischemic heart disease ● 33% of childhood asthma ● 3% of all chronic obstructive pulmonary diseases 	

Comments

Response

- *The cost of these health burdens, in addition to lost days of productivity amount to over 8.7 billion euros (\$9.11 million USD).*

Stationary Emissions Sources

As noted by the Union of Concerned Scientists, gas plants are “stationary” emissions sources– they release pollutants at a fixed location over long periods of time. The pollutants do not disperse evenly into the air immediately; based on factors such as wind and weather conditions, emissions can remain concentrated in certain areas close to gas-fired power plants.^[17]

- *A study published in the European Journal of Internal Medicine showcases the effect of a 750 MW power plant in San Paolo, Italy, home to around 74000 residents.^[18]*
 - *They find that PM10 particles in the air increased from 36.4 to 41.5 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$), while NOx levels were also reported to have increased from 24 to 25.3 $\mu\text{g}/\text{m}^3$.*
 - *This increase is correlated with an increase in hospital visits among the elderly, with the impact increasing as the residences grew closer to the power plant.*
- *A study on the effect of a combined-cycle gas-fired power plant in Qom similarly compares the health outcomes of people living in a 5, 10, and 15km radius from the power plant.^[19]*
 - *Using pollution data from different monitoring stations, as well as including controls for the effect of wind, they find that emissions have the greatest health impact in a town 2.5km north, and 7.5km west of the power station.*
 - *They find that the power plant causes 2 extra deaths per year.*
 - *Emissions from the power plant account for 21% of all cases of chronic cough and bronchitis.*
 - *The total health cost of the emissions from the plant are projected to be \$4.7 million USD.*
- *A study on the health impacts caused by air pollution from gas plants in South Korea analyzed the health benefits of an accelerated phase out of gas power.^[20]*
 - *South Korean gas power generation is estimated to cause up to 859 premature deaths per year and 23,200 premature deaths until 2064.*

Comments	Response
<ul style="list-style-type: none"> ○ 17,840 premature deaths could be avoided by withdrawing the plans to construct the gas plants in the pipeline, touted as the "bridge" in the energy transition, while also phasing out all gas plants in South Korea by 2035. 	
<p><i>Socioeconomic Inequalities</i></p> <p><i>The health effects of gas-fired power plants vary along the lines of country, race, and income. Globally, emissions standards, laws on air quality, and enforcement mechanisms are generally weaker in less developed countries, increasing the risk of emissions and exposure of the local communities to the emissions.^[21] In addition, combined cycle technology, which is less polluting than simple cycle gas plants tends to be more expensive than peaker plants.^[22] Locally, marginalized groups face higher health risks, predominantly due to closer proximity to the power plants.^[23]</i></p> <p><i>The fundamental problem of distributional environmental injustice is that those responsible for relatively smaller emissions face a greater proportion of the consequences.</i></p> <ul style="list-style-type: none"> ● <i>A study published in the Proceedings of the National Academy of Science (PNAS) highlights the disparity between the levels of emissions and exposure to these emissions based on race in the US.^[24]</i> <ul style="list-style-type: none"> ○ <i>By tracking the emissions associated with goods consumed by individuals, they find that Blacks are exposed to 21% more PM2.5 pollution than the average individual, and are responsible for 23% less emissions.</i> ○ <i>Accordingly, they face 63% more exposure than they cause</i> ○ <i>Non-white Hispanics also experience a disparity of 56%.</i> ● <i>PSE Healthy Energy released a 2017 report detailing the difference in exposure to emissions from gas power plants by income categories.^[25]</i> <ul style="list-style-type: none"> ○ <i>They find that 84% of all "peaker" gas plants operate in areas considered "most disadvantaged" in California.</i> ○ <i>More than 50% of these are found in communities that feature within the bottom 30% in terms of advantage.</i> <p><i>Finally, there are chain and multiplier effects of gas-fired power plants through the effects on the environment and wildlife. For instance, Mercury pollution of water bodies may</i></p>	<p>A detailed social assessment is being undertaken as part of the EIA phase for the project. Health impacts would be addressed in the Air Quality assessment and Noise Impact Assessment. All assessments will include an assessment of potential chain and multiplier effects for their respective studies. All the main pollutants from the CCGT plant will be assessed as part of the Air Quality Impact Assessment being undertaken for the project. The sulphur and nitrogen deposition can be quantified. The other pollutants listed will also be considered qualitatively in the AQIA.</p>

Comments	Response
<p>cause ingestion in humans through fish. Contaminated fish is the primary pathway for human exposure to mercury. Ingested mercury can damage the nervous system, especially in children and fetuses.^[26]</p>	
<p><i>Impacts on Wildlife and the Environment from Gas Plants</i></p> <p>The impacts of the gas-fired power plant on the environment are categorized into three lifecycle stages: construction, operation & maintenance, and decommissioning.</p>	<p>All significant impacts for each phase of the development will be assessed in detail in the EIA report. Due to the nature of the proposed development being a brownfield development within an industrial area, it is not anticipated to pose any threats to biodiversity. A terrestrial biodiversity compliance statement will be undertaken as part of this process by a suitably qualified ecologist.</p>
<p><i>Construction</i></p> <p>The direct impacts of construction on the environment are landscape change, the use of natural resources, and construction waste.</p> <ul style="list-style-type: none"> The landscape change may involve clearing the land area for the plant site and associated infrastructure (e.g., a terminal, a pipeline, or transmission lines), potentially causing deforestation.^[27] Landscape change may also affect wildlife through construction activities, habitat disturbance or destruction, noise, and pollution.^[27] The construction phase may cause temporary or permanent impacts on soil, water, and air quality. Exposed land areas due to construction may cause soil erosion and sedimentation, washing away the soil nutrients and pollutants to nearby water bodies during storm events or spring thaws if left unmanaged. <p>Construction works may require filling or draining wetlands or affect the wetlands near the plant site</p>	<p>Due to the nature of the proposed development being a brownfield development within an industrial area, it is not anticipated to pose any threats to biodiversity. A terrestrial biodiversity compliance as well as a soils compliance statement will be undertaken as part of this process by a suitably qualified ecologist and soil scientist respectively and will be included as part of the EIA report.</p> <p>Construction phase impacts on Terrestrial Biodiversity are discussed in 10.2.2.6 of the Scoping Report. Soil construction phase impacts are discussed in Section 2.2.5 of the Scoping Report. Air quality impacts during construction are discussed in Section 10.2.2.1. Noise generation during construction is discussed in Section 10.2.2 of the Scoping Report</p> <p>It should be noted that no wetlands occur in the immediate vicinity of the project site.</p>
<p><i>Operation & maintenance</i></p> <p>The most substantial impact of the operation & maintenance of a gas-fired power plant is emissions, namely sulfur dioxide (SO₂), nitrogen oxides (NO_x), particulate matter (PM), carbon dioxide (CO₂), mercury (Hg), and other pollutants.^[28] The major pollutants are nitrogen oxides or NO_x.^[5]</p> <ul style="list-style-type: none"> The effects of emissions on wildlife health are likely similar to the effects on human health described above. 	<p>All pollutants due to the CCGT plant will be assessed as part of the Air Quality Impact Assessment being undertaken for the project.</p> <p>All the main pollutants from the CCGT plant will be assessed as part of the Air Quality Impact Assessment being undertaken for the project. The sulphur and nitrogen deposition can be quantified. The other pollutants listed will also be considered qualitatively in the AQIA.</p>

Comments	Response
<ul style="list-style-type: none"> Nox pollution reduces plant biodiversity and affects the growth and survival of plants and other organisms, leading to changes in the ecosystem. Nitrogen pollution leads to the eutrophication of water bodies, altering aquatic ecosystems and causing harmful algae.^[29] SO2 causes acid rain, damaging vegetation, acidifying lakes, and affecting the reproduction and health of wildlife.^{[26][30]} Mercury emissions can be converted to methyl mercury by bacteria in waterways and absorbed by fish and other organisms.^{[26][31]} Ground-level ozone increases risks of disease, insects, fungus, harsh weather, and other risk factors for plants. These risks may affect the ecosystem through biodiversity loss, impaired health and growth.^[29] 	
<p><i>In addition, power plants cause avian deaths through onsite collision and electrocution with plant equipment, poisoning, and death caused by acid rain, mercury pollution, and climate change.^[32] Climate change, caused by greenhouse gasses, has indirect, multiplier, and long-term effects on the environment and wildlife.^[33]</i></p>	<p>No significant impacts on avifauna are expected as the project is located on a brownfields site within an industrial area. There is limited natural habitat remaining in the area which would potentially support significant populations of avifauna. A climate change assessment is also being conducted as part of the EIA. There is no sulphur in the flue gas and therefore acid rain impacts are unlikely to occur.</p>
<p><i>Operations of the power plant affect the water quantity and quality. Power plants use water from lakes, rivers, and municipal water utilities for plant cooling, and groundwater for plant processes.^[26]</i></p> <ul style="list-style-type: none"> <i>Power plant processes reduce water at the local stream and groundwater aquifer, negatively affecting the stream morphology, habitat, aquatic plant, and animal species, promoting the growth of algae and invasive plants.^[26]</i> <i>Discharge of polluted process water threatens local ecosystems, especially if safety mechanisms are neglected. Discharge of water with a different temperature, usually warmer after the power plant processes, can also negatively affect the ecosystem.^[26]</i> 	<p>The water for use in the CCGT will be sourced from the Diepsloot Waste Water Treatment Works and will be brought in through an existing pipeline network. The raw water will be treated at the Kelvin Power CCGT water treatment plant and will be reticulated for usage through the plant through small reticulation pipelines. Additional water may be sourced from boreholes on site or from Randwater. After use, the treated effluent water will be discharged via the existing Kelvin Power effluent discharge point into the Modderfontein river channel in line with DWS requirements for this discharge.</p> <p>According to Kelvin safety systems will not be neglected and effluent discharges will be monitored to ensure this. Effluent discharge temperature will be regulated and strictly controlled.</p>
<p><i>Incidents at Gas Plants with impacts on Health and Environment</i></p> <p><i>Incidents at the gas plants that may cause harm to health and the environment appear to be mostly explosions and fires. A historical analysis of accidents in gas and oil-fired equipment analyzed the causes. These were tube rupture, error in the ignition or reignition</i></p>	<p>As noted above, bulk storage of gas will not take place on the premises, the only gas on the site will be the small quantities of gas in the connecting pipeline. Kelvin plans to receive Natural Gas to the CCGT plant via Sasol's existing gas pipeline network. A short pipeline connection will be required to connect to the existing gas pipeline network. Various gas suppliers are currently being engaged for the supply of gas to the CCGT plant via the existing Sasol gas pipeline system. An MHI quantitative risk</p>

Comments	Response
<p>sequences, loss of flame in the combustion chamber, and the entrance of foreign fuel or other materials.^[40]</p> <p>The Energy-related Severe Accident Database (ENSAD) recorded 19 accidents at natural gas-fired power plants as of 2020: 5 in the USA and territories, 5 in China, 3 in Azerbaijan, 2 in Canada, 1 in the UK, 1 in Russia, and 1 in Australia.^[41] The data appears to be not exhaustive.</p> <p>Notably, accident risks at power plants represent a small percentage of hazards across all stages of energy chains.^[42]</p> <p>A few accidents at gas-fired power plants include:</p> <ul style="list-style-type: none"> • Kleen Energy Plant (2010, USA): An explosion occurred during a natural gas purging operation at the Kleen Energy Plant in Middletown, Connecticut, USA. The incident resulted in 6 fatalities and at least 50 injuries.^[43] • Enron power station (2001, UK): An explosion occurred in a transformer room, killing three and seriously injuring one person.^[44] • Nuon gas-fired power plant (2012, Netherlands): An explosion occurred during repair work at the high-voltage grid, injuring eight employees.^[45] • Formosa Ha Tinh Steel Corporation's power plant (2022, Vietnam): An explosion occurred during pipeline maintenance, killing one and injuring two employees.^[46] • Sentinel Energy Project (2017, USA): A high-pressure valve explosion killed one employee.^[47] • Baniyas Thermal Station (2021, Syria): A fuel leakage from one of the tanks caused an oil spill the size of New York City along the Syrian coast, reaching the Cypriot shore and Turkey's northeast coast. The oil spill also directly impacted the local fisher community and their livelihood, damaging the marine ecosystem and the coastal area.^[48] • West Tripoli power plant (2022, Libya): A fuel leakage from the tank caused an oil spill, polluting the soil and sea waters and endangering human health and the marine ecosystem.^[49] 	<p>assessment will however be undertaken during the EIA phase to assess the impact of any quantities of gas or other chemicals that may be stored on site as well as risks associated with the new gas pipelines leading to the site.</p> <p>Various plans, procedures and policies are in place and will be implemented by Kelvin during the construction and operation of the CCGT plant in order to reduce the risk of potential accidents. Further information will be supplied in the MHI risk assessment to be completed in the EIA phase.</p> <p>In relation to the first incident at the Kleen energy plant, the US Chemical Safety Board issued a report on the incident on 28/6/2010 recommending that the practises which led to this incident be prohibited. Kelvin Power has committed to ensuring that during construction / operation such practises will be prohibited.</p> <p>In relation to the Enron and Nuon incidents, please note that these accidents relate to high voltage equipment which is present in all power plants, including renewable energy plants. A gas fired power plant has no less or no more likelihood of such accidents occurring.</p> <p>The last two incidents mentioned are from oil fired power plants and not CCGT plants. The spills referenced relate to leakage of fuel oil which would not be applicable to the Kelvin CCGT project.</p> <p>Kelvin works strictly according to the OSHAS 18001 Standards and also the OHS Act 85 of 1993.</p>

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I&AP Name	Comment	Response
Mark Jansen Van Rensburg	Prior to the commencement of the tour, Mr Van Rensburg stated interest in how gas could be better than coal, and expressed excitement over whether gas would reduce the amount of soot from coal that affects their properties.	<p>Comments were noted.</p> <p>EAP: The CCGT plant would produce significantly less particulate matter than Kelvin's current coal fired power station. Detailed modelling of the air pollutants will be made available during the EIA phase when the Air Quality specialist study has been undertaken.</p>
	Question on how much space is needed for solar power plants to generate the same energy output.	EAP: Solar developments typically require quite a lot of land at approximately 2 hectares per megawatt as such it would not be feasible considering the available space at the Kelvin owned property on which the CCGT plant is planned.
	Asked if the project is more 'green' and what the implications would be for Eskom and loadshedding.	<p>EAP: The proposed CCGT plant will be producing up to 600MW of electricity using a gas powered turbine and a steam powered turbine that will be powered by the heat produced by the gas turbine increasing the efficiency of the plant. The proposed CCGT plant has less emissions compared to a traditional coal fired power station.</p> <p>The proposed Kelvin Power Station is an intended IPP project to be submitted in the IPP bid window to supply/sell the power produced to the Eskom grid meaning it will contribute to the electricity available to Eskom as such could assist with loadshedding although it will only be worth up to 600MW capacity.</p>
	Commented on the amount of 'red' in the wind rose diagram.	EAP: Explained that the diagram presents the baseline prevalent wind directions as per the monitoring stations.
	Stated that sometimes a loud 'valve' at the power station goes off and shakes their house. Expressed concern over the noise affecting the schools.	<p>EAP: confirmed that an Air quality and noise study would be undertaken to model the potential noise impacts from the proposed development.</p> <p>Client: stated that the proposed CCGT plant will be fitted with silencers and noise proofing where possible as this is standard industry practice to reduce noise impacts.</p>
	Asked if all the cooling towers will be demolished. Asked if some of the buildings could be preserved as they are historic.	EAP: The old A-station cooling towers would be demolished, however, the decommissioning application for the A-station was undertaken as part of a separate application and has been granted an EA. The HIA undertaken during

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I&AP Name	Comment	Response
		that process stated that some of the old machinery was to be kept at a museum.
	Commented that EIMS is doing a good job with the process and thinks that the project will be good.	EAP: thanked Mr Van Rensburg for his comments and stated that if he had any further comments he could make use of the email provided to submit his comments in writing to EIMS.
	Stated that he has no negative comments to share at this stage and said that he would provide a positive comment.	Comment noted.
Wayne Bruun	Mentioned privately owned land that used to be owned by Kelvin during discussion of the site alternatives.	Comment noted.
	Asked what the monetary value of the project will be.	EAP: The CAPEX value of the project was included in the scoping report and the I&AP was informed on where this information could be accessed.
	Commented on the amount of noise that comes from the plant.	EAP: stated that an Air quality and Noise Impact Study would be undertaken to model the potential noise impacts from the proposed development. Client: stated that the proposed CCGT plant will be fitted with silencers and noise proofing where possible as this is standard industry practice to reduce noise impacts.
	Asked whether the air quality effects of gas could be worse than coal.	EAP: The air quality impacts of the proposed development would most likely be significantly lower than that of coal fired power stations, however, the EAP explained that the Air Quality Impact Assessment would not be done to compare the air emissions of a CCGT plant and that of the coal fired plant but will be compared to the baseline condition and the various applicable standards and regulations.
	Stated that he has been on the EIMS website before.	Comment was noted.
	Asked if EIMS is being paid to conduct the open day and stated that EIMS is doing a good job.	EAP: stated that EIMS are being paid and are hired as independent environmental consultants by Kelvin Power to undertake the environmental authorisation process. The EAP thanked them for their comment regarding the open day.

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I&AP Name	Comment	Response
	Commented that 'they' will hopefully stop stealing the equipment (with the new proposed development).	Comment was noted.
Japie Smith	Asked who EIMS is and what their involvement is.	EAP: stated that EIMS are hired as independent environmental consultants by the client (Kelvin Power (Pty) Ltd) to undertake the environmental authorisation process.
	Asked who will be involved in the construction.	EAP: That will happen later once approvals are in place – it has not been determined yet who will construct the plant.
Robert Couperthwaite	Stated that there was no mention of electricity generation in the literature.	EAP: Provided images of the CCGT, generator to be added to the project description.
	Asked about the usage of diesel.	Client: The diesel will be used for the emergency generators to start the plant when the plant is not connected to external energy supply.
	Asked about the off-takers of the electricity.	Client: The off-takers will be Eskom via the Sebenza substation to the Eskom substation.
	Who will own this? City Power?	Client: Kelvin owns the power station, Kelvin intends to sell the electricity to Eskom through the IPP process. The electricity will be distributed via the Eskom grid.
	Stated that the country needs the additional 600MW of power.	Comment was noted.
	Stated that he has a company north of the proposed site area and is concerned about the pollution. Stated concern about the air quality and particulate matter fallout.	EAP: The proposed CCGT plant will produce significantly less pollution than the current Kelvin Power B-station. However, accurate results and models will be provided by the air quality specialist reports during the EIA phase. Client (Lavhe): The cooling towers and stacks will be short (15m).
	Enquired if Kelvin is South African owned or if it is funded by foreign investments.	Client (Lavhe): Stated that Kelvin is a South African registered private company.
	Supports the idea of the proposed development on the brownfield site.	Comment was noted.
Stated that roads around Kelvin have deteriorated ever since Kelvin switched from receiving coal via trains to transportation by truck. Damage of roads by coal trucks was impacting them.	EAP: The proposed CCGT plant is only anticipated to have impacts on traffic during construction activities when the various parts and construction material is being delivered to site and potentially more traffic as a result of transportation of staff members. However, post construction there is no anticipated traffic impacts as the gas required to power the CCGT will be	

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I&AP Name	Comment	Response
		piped in from the existing Sasol gas pipeline and as such will not cause any traffic related issues
	Asked if there will be relocation of homes.	EAP: No homes will be relocated.
	Summary of comments: Stated that buildings that can be preserved must be done to preserve the heritage of the site. Stated interest in the modelling of the noise and air quality. Stated that it is an industrial area and therefore has no concerns during construction as the area is already very busy. Stated interest in opportunities for work (as he is an engineer).	Comments were noted. EAP: Encouraged Robert to provide comments on the report by 17 April 2024.
Phil Bishop	Asked when the project will happen.	EAP: Expected EA mid-2025, construction period 2025-2028, and operational in 2029.
	Are they demolishing and rebuilding?	EAP: The A-station would be demolished, however, the decommissioning application for the A-station was undertaken as part of a separate application and has been granted an EA.
	Stated that he lives in Kelvin Estate and that all the houses used to be owned by Kelvin.	Comment noted.
	Concerned about the towers being demolished and the new structures being built. Asked whether there will be any explosions as he is concerned about his house and towers falling on his home.	Client: Demolition will likely be explosives. The removal of rubble will take a while but the rubble could possibly be reused.
	Asked about the timelines for construction.	Client: Construction will take approximately 3 years.
	Do they want the other plant to do the same thing?	Client: They are unsure at the moment based on the current energy strategy.
	Asked about what could be stolen.	EAP & Client: There will be good security measures, fences, etc.
	Asked what emissions that will come from the cooling towers.	EAP: The cooling towers will emit steam.
	Asked if steam is 'greener'.	EAP: The emissions will be cleaner than coal. An Air Quality specialist will conduct an Air Quality Impact Assessment, and some of the concerns that will be considered include emissions such as nitrous oxides. A presentation will be done to disseminate the information from the specialist studies and recommendations. The EAP explained the process of the public participation and the aim of soliciting input, comments/concerns from the public.

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I&AP Name	Comment	Response
Michele Visagie	Where will Kelvin get the gas from?	EAP: There is a Sasol agreement to supply gas.
	Michele Visagie wants to be added as a standard I&AP for all gas projects.	The I&AP will be registered for the Kelvin project.
	Michele Visagie indicated that comments will be sent to the Kelvin email.	EIMS supplied a copy of the presentation and indicated where the contact details are found on the presentation. EIMS confirmed that comments can be submitted by no later than the 16th of September 2024.
Gary Thomas	Gary indicated interest on the impacts on water resources and stated that the residents are very mindful of what is going on and they monitor the river, river colour, etc.	Lavhe: Indicated that it is a closed system, not all water will be released, only when water is in excess will it be released and the water is often much cleaner.
	Gary enquired about the water quality and the release point into the Modderfontein spruit.	It was explained that a Water Use Licence process for release of heated water and effluent was in process. The plant entails a water treatment plant, the water will be released in accordance with the limits set in the WUL licence. Lavhe explained they are constantly monitoring their releases in the Modderfontein spruit.
	Emissions - will the emissions be impacting the residents, especially those lower down?	EAP: indicated the emissions shown on the maps under Scenario 1 (normal operations assuming MES where exhaust gas goes through the main stacks) showing the simulated annual average ground level concentrations of NO ₂ , Particulate Matter and SO ₂ . The Air Quality should improve compared to the current baseline emissions.
	Where does the gas pipeline come from?	EAP: it is a Sasol pipeline (indicated on the map).
	The I&AP indicated they live in Illiondale and wanted to know about the noise.	EAP: referred to the section of the poster regarding the Noise specialist study. The findings indicate that there is expected to be no community reaction due to the increased noise level due to construction which is predicted to be within the Gauteng Noise Control Regulations of 60 dBA and recommended day-time Environmental Noise Standards at all the residential noise sensitive receptors identified. During the operational phase, it is expected that there will be little reaction with a few sporadic complaints in the industrial area indicated on the map as a result of the increase in noise levels from the current baseline noise level.

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I&AP Name	Comment	Response
		The EAP further explained that as part of the proposed mitigation measures Kelvin will be expected to monitor noise for the first few months to ascertain the findings of the model or check if additional mitigation is required.
Thompson Nzimande	Where will construction be and when will it start?	EAP: construction is expected to start next year and is expected to commission around 2027/2028.
	Asked about the Air Quality and the stacks releasing emissions.	EAP: referred to the section of the posters showing the results of the air quality study that was done and referred to the maps showing the simulated annual average NO ₂ , Particulate Matter and SO ₂ ground level concentrations under Scenario 1 (normal operations assuming MES where exhaust gas goes through the main stacks) indicated on the maps. The Air Quality specialist concluded that the proposed development will have lower air quality impacts compared to that of the existing coal fired power station and will provide an improvement on the air quality in the area.
	Asked about the Noise.	EAP: referred to the Noise specialist study section of the poster. The EAP explained the findings of the study and that there is expected to be no community reaction due to the increased noise level due to construction which is predicted to be within the Gauteng Noise Control Regulations of 60 dBA and recommended day-time Environmental Noise Standards at all the residential noise sensitive receptors identified. During the operational phase, it is expected that there will be little reaction with a few sporadic complaints in the industrial area indicated on the map as a result of the increase in noise levels from the current baseline noise level. The EAP further explained that as part of the proposed mitigation measures Kelvin will be expected to monitor noise for the first few months to ascertain the findings of the model or check if additional mitigation is required.
	Asked about any jobs.	EAP: indicated that there would be more jobs during the construction phase of the project and that less workers would be required during the operational phases. The number of workers during the operational phase would be similar to the number of workers that are currently there. It was also indicated that the workers during the operational phase would largely be skilled workers with few general workers.

Comments and Responses Table regarding the Comments provided by the Department of Forestry, Fisheries & the Environment (DFFE) provided with reference to the scoping acceptance dated 6 June 2024.

COMMENT	RESPONSE
<p>(a) Listed Activities</p> <p>(i) Please ensure that all relevant listed activities are applied for, are specific and can be linked to the development activity or infrastructure as described in the project description. Also ensure to choose the correct and relevant sub listing. Additionally, note that the onus is thus on the applicant and the environmental assessment practitioner (EAP) to ensure that all the applicable listed activities are included in the application. Failure to do so may result in unnecessary delays in the processing of the application.</p> <p>(ii) The EIAR must provide an assessment of the impacts and mitigation measures for each of the listed activities applied for.</p> <p>(iii) If the activities applied for in the application form differ from those mentioned in the final EIAR, an amended application form must be submitted. Please note that the Department's application form template has been amended and can be downloaded from the following link https://www.environment.gov.za/documents/forms.</p>	<ul style="list-style-type: none"> • It is understood that the project description describes the proposed development activities and required infrastructure adequately and can be linked to the activities applied for. • The EIR provides and assessment of all project impacts. • All listed activities have been applied for – an amended application form has been submitted with the DEIR to DFFE as one of the listed activities has been replaced.
<p>(b) Public Participation</p> <p>(i) Please ensure that comments from all relevant stakeholders are submitted to the Department with the EIAR.</p> <p>(ii) Please ensure that all issues raised, and comments received during the circulation of the draft SR and draft EIAR from registered I&APs and organs of state which have jurisdiction (including this Department's Biodiversity Section, Air Quality Section and Climate Change Section) in respect of the proposed activity are adequately addressed in the final EIAR. Proof of correspondence with the various stakeholders must be included in the final EIAR. Should you be unable to obtain comments, proof should be submitted to the Department of the attempts that were made to obtain comments.</p> <p>(iii) Copies of comments received must be submitted to the Department. Copies of responses provided to all comments received must also be submitted. In addition, The EIAR must also include proof that the responses were sent to Interested and Affected parties.</p> <p>(iv) A Comments and Response trail report (C&R) must be submitted with the final EIAR. The C&R report must incorporate all comments for this development. The C&R report must be a separate document from the main report and the format must be in the table format as indicated in Appendix 1 of this comments letter. Please refrain from summarising comments made by I&APs. All comments from I&APs must be copied verbatim and responded to clearly. Please note that a response such as "noted" is not regarded as an adequate response to I&AP's comments. Please ensure that the comments and trail report is in the format provided by the department. This must include all comments received on this application.</p>	<ul style="list-style-type: none"> • All comments have been included in the PP report (Appendix C) • Efforts to identify all possible Interested & Affected Parties including all possibly affected authorities have been made. Various Organs of State at National, Provincial and Local levels were pre-identified and notified of the Scoping and EIA Process through the Call to Register notifications, Emails and Faxes and were continuously be informed of the various opportunities to participate in the authorization process being undertaken for the Kelvin Power Station CCGT. • All comments received are included in the PP annexure of the report (Appendix C) • Efforts to identify and notify various I&APs and/or organs of state were made as described in Section 8 of the EIR and all associated Public Participation documents and proofs have been attached to the Scoping Report as Appendix C. • The Table of Correspondence is attached as an appendix to the Comments & Response Report/Public Participation Report. The Table of Correspondence table format matches that provided. • The Public Participation Process has been conducted in terms of Regulation 39, 40, 41, 42, 43 & 44 of the EIA Regulations, 2014. • Site visit arrangements will be made in due course, prior to submission of the FEIR

COMMENT	RESPONSE
<p>(v) Comments from I&APs must not be split and arranged into categories. Comments from each submission must be responded to individually.</p> <p>(vi) The Public Participation Process must be conducted in terms of Regulation 39, 40, 41, 42, 43 & 44 of the EIA Regulations, 2014, as amended.</p> <p>(vii) The EAP is requested to contact the Department to make the necessary arrangements to conduct a site inspection prior to the submission of the final EIAR.</p> <p>(viii) All evidence of public participation must be included in the final EIR including site notices and newspaper articles.</p>	
<p>(c) Cumulative Assessment</p> <p>(i) Should there be any other similar projects within a 30km radius of the proposed development site, the cumulative impact assessment for all identified and assessed impacts must be refined to indicate the following:</p> <ul style="list-style-type: none"> • Identified cumulative impacts must be clearly defined, and where possible the size of the identified impact must be quantified and indicated, i.e., hectares of cumulatively transformed land. • Detailed process flow and proof must be provided, to indicate how the specialist's recommendations, mitigation measures and conclusions from the various similar developments in the area were taken into consideration in the assessment of cumulative impacts and when the conclusion and mitigation measures were drafted for this project. • The cumulative impacts significance rating must also inform the need and desirability of the proposed development. • A cumulative impact environmental statement on whether the proposed development must proceed. 	<ul style="list-style-type: none"> • Cumulative impacts have been identified and assessed in the specialist assessments completed. Refer to Section 10 of the EIR for an assessment of cumulative impacts. • A map showing other similar projects within a 30km radius of the project site is included as Figure 59. • A cumulative impact statement is included in Section 10.2.8 of the EIR. • Furthermore, the assessment methodology used in the EIA by its nature already considers past and current activities and impacts. In particular, when rating the sensitivity of the receptors and the status of the receiving environment.
<p>(d) Specialist assessments</p> <p>(i) The EAP must ensure that the specialist studies to be conducted includes the following:</p> <ul style="list-style-type: none"> • A detailed description of the study's methodology; indication of the locations and descriptions of the development footprint, and all other associated infrastructures that they have assessed and are recommending for authorisations. • Provide a detailed description of all limitations to the studies. All specialist studies must be conducted in the right season and providing that as a limitation will not be allowed. • Please note that the Department considers a 'no-go' area, as an area where no development of any infrastructure is allowed; therefore, no development of associated infrastructure including access roads is allowed in the 'no-go' areas. 	<ul style="list-style-type: none"> • Specialist assessments are in line with the mentioned requirements. • Cumulative impacts have been identified and assessed in the specialist assessments completed. Refer to Section XX of the EIR for an assessment of cumulative impacts. • Furthermore, the assessment methodology used in the EIA by its nature already considers past and current activities and impacts. In particular, when rating the sensitivity of the receptors and the status of the receiving environment. • None of the specialist recommendations received contradict one another. • Procedures for the Assessment and Minimum Criteria for Reporting on identified Environmental Themes have been taken into account in the EIR and specialist assessments. • Refer to Appendix F for a copy of the DFFE screening tool and Site Sensitivity Verification Report. All requirements in terms of the specialist protocols have been taken into consideration.

COMMENT	RESPONSE
<ul style="list-style-type: none"> • Should the specialist definition of ‘no-go’ area differ from the Departments definition; this must be clearly indicated. The specialist must also indicate the ‘no-go’ area’s buffer if applicable. • All specialist studies must be final, and provide detailed/practical mitigation measures for the preferred alternative and recommendations, and must not recommend further studies to be completed post EA • Should a specialist recommend specific mitigation measures, these must be clearly indicated. • Regarding cumulative impacts: Clearly defined cumulative impacts and where possible the size of the identified impact must be quantified and indicated, i.e. hectares of cumulatively transformed land. • A detailed process flow to indicate how the specialist’s recommendations, mitigation measures and conclusions from the various similar developments in the area were taken into consideration in the assessment of cumulative impacts and when the conclusion and mitigation measures were drafted for this project. • Identified cumulative impacts associated with the proposed development must be rated with the significance rating methodology used in the process. • The significance rating must also inform the need and desirability of the proposed development. • A cumulative impact environmental statement on whether the proposed development must proceed. <p>(ii) Should the appointed specialists specify contradicting recommendations, the EAP must clearly indicate the most reasonable recommendation and substantiate this with defensible reasons; and where necessary, include further expert advice.</p> <p>(iii) It is further brought to your attention that Procedures for the Assessment and Minimum Criteria for Reporting on identified Environmental Themes in terms of Sections 24(5)(a) and (h) and 44 of the National Environmental Management Act, 1998, when applying for Environmental Authorisation, which were promulgated in Government Notice No. 320 of 20 March 2020 (i.e. “the Protocols”), and in Government Notice No. 1150 of 30 October 2020 (i.e. protocols for terrestrial plant and animal species), have come into effect. Should this study be required, the specialist assessments must be conducted in accordance with these protocols.</p> <p>(iv) Please ensure that specialist assessments are conducted in accordance with these protocols, except where the applicant provides proof to the competent authority that the specialist assessment affected by these protocols had been commissioned before the date on which the protocols came into effect, in which case Appendix 6 of the Environmental Impact Assessment Regulations, 2014, as amended, will apply to such applications. Please indicate in the report whether the protocols were applied</p> <p>(v) The screening tool output:</p>	<ul style="list-style-type: none"> • The following Specialist Assessments form part of the EIAr: <ul style="list-style-type: none"> • Air Quality Assessment (including health risks/aspects associated with proposed development) • Noise Assessment • Socio-economic Assessment • Climate Change Assessment; • Heritage Assessment • Major Hazardous Installation Risk Assessment • Soils Compliance Statement • Terrestrial Ecological Compliance Statement • Civil Aviation compliance statement • Studies that were identified by the DFFE Screening Tool have been identified added to the SSVR and the relevant motivations for studies that were not deemed necessary by the EAP. A table listing all specialist studies identified by the screening tool has been added in Section 1.3 of the EIR with the relevant motivations for the non-commissioning of the studies that were not deemed necessary by the EAP. • Where compliance statements were deemed necessary, specialist compliance statements were undertaken as per the DFFE screening tool. • The requirements for specialists to be SACNASP registered as described in the protocols is noted and specialist declaration forms, CVs and registrations are appended to the various specialist reports as required.

COMMENT	RESPONSE
<ul style="list-style-type: none"> The screening tool and the gazetted protocols (GN R320 of 20 March 2020 and GN R 1150 of 30 October 2020) require a site sensitivity verification to be completed to either confirm or dispute the findings and sensitivity ratings of the screening tool. It is the responsibility of the EAP to confirm the list of specialist assessments and to motivate in the assessment report, the reason for not including any of the identified specialist studies including the provision of photographic evidence of the site situation. The site sensitivity verification for each of the recommended studies, as per the protocols, must be submitted. <p>(vi) Additionally, the protocols specify that an assessment must be prepared by a specialist who is an expert in the field and is SACNASP registered for e.g. an aquatic assessment must be prepared by a specialist registered with SACNASP, with expertise in the field of aquatic sciences.</p> <p>(vii) Please be reminded that section 2(3) of NEMA requires developments to be socially, environmentally and economically sustainable, while section 2(4)(i) of NEMA requires the social, economic and environmental impacts of activities, including disadvantages and benefits, to be considered, assessed and evaluated.</p> <p>(viii) The following Specialist Assessments will form part of the EIAR:</p> <ul style="list-style-type: none"> Specialist Study Air Quality Assessment (including health risks/aspects associated with proposed development) Noise Assessment Socio-economic Assessment Climate Change Assessment; Heritage Assessment Major Hazardous Installation Risk Assessment Soils Compliance Statement Terrestrial Ecological Compliance Statement 	
<p>(e) Locality, Site Layout and Sensitivity Maps</p> <p>The draft EIAR must provide the following:</p> <p>(i) A clear description of all associated infrastructure. This description must include, but is not limited to the following:</p> <ul style="list-style-type: none"> Gas turbine, Boiler and steam turbine, heat recovery steam generator (HRSG), fuel gas compressor building, a High Voltage switchyard, auxiliary buildings, powerline, gas pipeline etc. Internal road infrastructure; and; All supporting onsite infrastructure, etc. 	<ul style="list-style-type: none"> Section 3 of the EIR provides a detailed project description in line with the listed requirements. Sensitivity maps are included in Section 11 of the EIR. Please note that no no-go areas or buffer areas on site have been identified in any of the specialist assessments conducted due to the brownfields nature of the site.

COMMENT	RESPONSE
<p>(ii) All necessary details regarding all possible locations and sizes of the proposed project infrastructure.</p> <p>(iii) A copy of the final preferred layout map. All available biodiversity information must be used in the finalisation of the layout map. Existing infrastructure must be used as far as possible e.g. roads. The layout map must indicate the following:</p> <ul style="list-style-type: none"> • Permanent laydown area footprint; • Internal roads indicating width (construction period width and operation period width) and with numbered sections between the other site elements which they serve (to make commenting on sections possible); • Wetlands, drainage lines, rivers, streams, and water crossings of roads and cables indicating the type of bridging structures that will be used; • The location of sensitive environmental features on-site e.g. CBAs, ESA, heritage sites, wetlands, drainage lines, etc. that will be affected by the facility and its associated infrastructure; • Substation(s) and/or transformer(s) sites, including their entire footprint; • Location of access and service roads; • Connection routes (including pylon positions) to the distribution/transmission network; • All existing infrastructure on the site, especially railway lines and roads; • Buffer areas; • Buildings, including accommodation; • All “no-go” areas; and • A north arrow and legend/key, to enable the Department to interpret the layout map. <p>(iv) An environmental sensitivity map indicating environmentally sensitive areas and features identified during the assessment process.</p> <p>(v) A map combining the final layout map superimposed (overlain) on the environmental sensitivity map.</p>	
<p>(f) Coordinates</p> <p>Please ensure that the EIAR includes coordinates of all the proposed project and all associated infrastructure. Start, middle and end point coordinates for the linear infrastructures must also be provided.</p>	<p>The relevant co-ordinates are provided in Section 2 Table 5.</p>
<p>(g) Environmental Management Programme (EMPr)</p> <p>It is drawn to your attention that for substation and overhead electricity transmission and distribution infrastructure, when such facilities trigger activity 9 of the EIA Regulations Listing</p>	<p>Three EMPrs have been included as part of the submission:</p> <ul style="list-style-type: none"> • EMPr Appendix G1: EMPr for the CCGT plant • EMPr Appendix G2: Generic Powerline EMPr

COMMENT	RESPONSE
<p>Notice 2 of 2014, as amended, and any other listed and specified activities necessary for the realisation of such facilities, the generic Environmental Management Programmes (EMPr), contemplated in Regulations 19(4) must be used over and above the EMPr for the facility. Accordingly, there needs to be a generic EMPr for the overhead powerline, and a separate EMPr for the facility.</p> <ul style="list-style-type: none"> (i) Please ensure that the mitigation measures specified in the EIAr and specialist reports are also incorporated into the EMPr. (ii) In addition, ensure that the EMPr complies with the content of the EMPr in terms of Appendix 4 of the EIA Regulations, 2014, as amended. (iii) Please also include in the EMPr, a recommended frequency for the auditing of compliance with the conditions of the EA and EMPr, and for the submission of such compliance reports to the competent authority. (iv) EMPr must include an environmental sensitivity map indicating environmental sensitive areas and features identified during the assessment process. (v) A map combining the final layout map superimposed (overlain) on the environmental sensitivity map. (vi) EMPr must include measures to protect hydrological features such as streams, rivers, pans, wetlands, dams and their catchments, and other environmental sensitive areas 	<ul style="list-style-type: none"> • EMPr Appendix G3: Generic Gas Pipeline EMPr <p>The main EMPr submitted as Appendix G1 includes all details as requested.</p>
<ul style="list-style-type: none"> (i) General The EIAr must provide the technical details for the proposed facility in a table format as well as their description and/or dimensions. A sample for the minimum information required is listed under Annexure 2 below. (ii) Recommendations of conditions to be included in the EA, must be done per project. (iii) Details of the future plans for the site and infrastructure after decommissioning in 20-30 years and the possibility of upgrading the proposed infrastructure to more advanced technologies must be indicated. (iv) The EAP must provide landowner consent for all farm portions affected by the proposed project, whether the project component is linear or not, i.e. all farm portions where the access road, proposed project and associated infrastructure is to be located. (v) Please also ensure that the EIAr includes the period for which the Environmental Authorisation is required and the date on which the activity will be concluded as per Appendix 3 of the NEMA EIA Regulations, 2014, as amended. 	<ul style="list-style-type: none"> • Technical details are provided in the required format in Table 6 in Section 3 of the EIR. • The applicant owns the property and therefore no landowner consent is required for any component of the development. • The time period for which the EA is required and the date the activity will be concluded are included in Section 3.1.2 of the EIR.

Comments and Responses Table regarding the Comments provided on the DEIR by the Department of Forestry, Fisheries & the Environment (DFFE).

COMMENT	RESPONSE
<p>(a) Specific Comments</p> <p>Recommendations provided by specialist reports must be considered and used to inform the layout.</p> <p>Please ensure that all mitigation recommendations are in line with applicable and most recent guidelines.</p> <p>The final EIAR must provide the technical details for the proposed facility including all associated infrastructures (i.e. powerline, laydown areas and access roads) in a table format as well as their description and/or dimensions.</p> <p>Please ensure that the final EIAR complies with the requirements of Appendix 3 of the NEMA EIA Regulations, 2014, as amended, all conditions of the acceptance of the scoping report, and this letter.</p> <p>Please also ensure that the final EIAR includes the period for which the Environmental Authorisation is required and the date on which the activity will be concluded as per Appendix 3 of the NEMA EIA Regulations, 2014, as amended.</p>	<p>No no-go areas or areas of avoidance were identified by any of the specialist team.</p> <p>All mitigation measures are in line with recent guideline.</p> <p>Refer to Section 3.1 and Table 6 in the FEIR for technical details of all infrastructure.</p> <p>The FEIR complies with all requirements of Appendix 3, as well as the Scoping Report acceptance and other comments received from DFFE.</p> <p>The period for which the EA is required is included in Section 12.3.</p>
<p>(b) Public Participation</p> <p>The final SR must provide evidence that all identified and relevant competent authorities have been given an opportunity to comment on the proposed development and SR, particularly Department of and the Environment: Directorate Biodiversity and Conservation, Directorate Climate Change ; Directorate Air Quality (Derrick Makhubele: DMakhubele@dffe.gov.za) and the relevant Atmospheric Emissions Licence (AEL) Authority.</p> <p>Please ensure that comments from all relevant stakeholders are submitted to the Department with the EIAR. Please ensure to include the Department of Forestry, Fisheries and the Environment: Directorate Biodiversity and Conservation, Directorate Climate Change ; Directorate Air Quality (Derrick Makhubele: DMakhubele@dffe.gov.za) and the relevant Atmospheric Emissions Licence (AEL) Authority.</p> <p>Please ensure that all issues raised, and comments received during the circulation of the draft SR and draft EIAR from registered I&APs and organs of state which have jurisdiction in respect of the proposed activity are adequately addressed in the final EIAR. Proof of correspondence</p>	<p>The various directorates listed were consulted – refer to proof of notification in C2 and C6 and C9. All comments received are included in Appendix C12 and C13.</p> <p>The Comments and Response report is included as Appendix C12 including all comments from stakeholders and I&APs. Included are the comments from DFFE on the various reports.</p> <p>Comments have not been arranged into categories in the correspondence doc.</p> <p>The PP Process has been conducted in line with the required regulations.</p> <p>As per the email from Nyiko Nkosi on 3 September 2024, a site visit will be arranged after submission of the FEIR.</p>

COMMENT	RESPONSE
<p>with the various stakeholders must be included in the final EIAr. Should you be unable to obtain comments, proof should be submitted to the Department of the attempts that were made to obtain comments.</p> <p>Please ensure that the acceptance of scoping report forms part of the comments and response reports and you must indicate how they have been addressed in the EIAr.</p> <p>A Comments and Response trail report (C&R) must be submitted with the final EIAr. The C&R report must incorporate all comments for this development including Department's comments included in the acceptance of scoping report as well as these comments on the draft EIAr. The C&R report must be a separate document from the main report. Please refrain from summarising comments made by I&APs. All comments from I&APs must be copied verbatim and responded to clearly. Please note that a response such as "noted" is not regarded as an adequate response to I&AP's comments. Under comments and response report, please refrain from referring to "attached letter" as you have done under comments from Dr Gwen Theron, which provided response to comments received. The Department requires that responses provided be included in the comment and response report responding to each point raised.</p> <p>Comments from I&APs must not be split and arranged into categories. Comments from each submission must be responded to individually.</p> <p>The Public Participation Process must be conducted in terms of Regulation 39, 40, 41, 42, 43 & 44 of the EIA Regulations, 2014, as amended.</p> <p>The EAP is requested to contact the Department to make the necessary arrangements to conduct a site inspection prior to the submission of the final EIAr.</p>	
<p>(c) Specialist assessments</p> <p>Specialist studies must provide a detailed description of their methodology, as well as all other associated infrastructures that they have assessed and are recommending for the authorisation.</p> <p>The specialist studies must also provide a detailed description of all limitations to their studies. All specialist studies must be conducted in the right season and providing that as a limitation, will not be accepted.</p> <p>Should the appointed specialists specify contradicting recommendations, the EAP must clearly indicate the most reasonable recommendation and substantiate this with defensible reasons; and where necessary, include further expertise advice.</p>	<p>The specialist studies attached as Appendix F are in line with these requirements.</p> <p>Please refer to Table 3 in the FEIR for a summary of the required specialist studies required by the Screening Tool. All relevant compliance statements have been completed in line with the protocols.</p> <p>For the themes that were medium or low, where a compliance statement is still required in terms of the protocols, these compliance statements have been included in Appendix F, inclusive of an Aquatics Compliance statement.</p> <p>SACNASP certificates have been appended to the specialist compliance statements.</p>

COMMENT	RESPONSE
<p>Please include a table in the EIAr summarising the specialist studies required by the Screening Tool including the sensitivity rating of Screening Tool (very high, high, medium, low), a column indicating the sensitivity of the site after the EAP/Specialist has conducted the Site Verification Assessment and a column indicating whether these studies were conducted, or compliance statement attached.</p> <p>It is further brought to your attention that the Procedures for the Assessment and Minimum Criteria for Reporting on identified Environmental Themes in terms of Sections 24(5)(a) and (h) and 44 of the National Environmental Management Act, 1998, when applying for Environmental Authorisation, which were promulgated in Government Notice No. 320 of 20 March 2020 (i.e. “the Protocols”), and in Government Notice No. 1150 of 30 October 2020 (i.e. protocols for terrestrial plant and animal species) these protocols, except where the applicant provides proof to the competent authority that the specialist assessment affected by these protocols had been commissioned before the date on which the protocols came into effect, in which case Appendix 6 of the Environmental impact Assessment Regulations, 2014, as amended, will apply to such applications. Please indicate in the EIAr whether the protocols were applied.</p> <p>Please also ensure that the specialist studies conducted as per requirements of the protocols also include the Site Verification Report that confirms the level of sensitivity from what has been identified by the screening report.</p> <p>The themes that have indicated as medium and low after SSVr such as Aquatic Biodiversity, you must submit a Aquatic Biodiversity Compliance Statement from the specialist.</p> <p>Please note that the Protocols require the specialists to be SACNASP registered. Proof of registration in the form of valid SACNASP certificate must be submitted for each specialist conducted.</p> <p>Specialist Declaration of Interest in the Department’s template must be submitted.</p> <p>For the themes that have been identified as medium which requires compliance statements, please ensure that these compliance statements are attached to the EIAr and that they comply with the requirement of the protocols.</p>	<p>All specialist declarations have been included and attached to the various specialist reports.</p>
<p>d) Coordinates</p>	<p>Table 5 of the FEIR includes co-ordinates of all infrastructure as required.</p>

COMMENT	RESPONSE
<p>The section that provided coordinates of the proposed project in the EIAR must be amended to include coordinate of all associated infrastructures such as access road (start, middle and end point), and laydown area.</p>	
<p>e) Environmental Management Programme (EMPr) Please ensure that the mitigation measures specified in the EIAR and specialist reports are also incorporated into the EMPrs.</p> <p>In addition, ensure that the facility EMPr complies with the content of the EMPr in terms of Appendix 4 of the EIA Regulations, 2014, as amended.</p> <p>Please also include in the facility EMPr, a recommended frequency for the auditing of compliance with the conditions of the EA and EMPr, and for the submission of such compliance reports to the competent authority. EMPrs must include an environmental sensitivity map indicating environmental sensitive areas and features identified during the assessment process.</p> <p>A map combining the final layout map superimposed (overlain) on the environmental sensitivity map. The Facility EMPr must include measures to protect hydrological features such as streams, rivers, pans, wetlands, dams and their catchments, and other environmental sensitive areas from construction impacts including the direct or indirect spillage of pollutants.</p>	<p>All specialist mitigation measures are included in the EMPr (Appendix G). The EMPr complies with Appendix 4 of the EIA regulations.</p> <p>Refer to table 4 in the EMPr for frequency of compliance monitoring / auditing.</p> <p>A layout and sensitivity map is included as Figure 2 of the EMPr. No sensitive on-site features were identified.</p> <p>No wetlands, pan or dams were identified near the site. Discharge of cooling water and effluent into the Modderfontein spruit has been assessed by the aquatics specialist and mitigations measures from the specialist have been included in the FEIR and EMPr to address potential impacts of this discharge on the spruit. In addition the EMPr includes various waste management mitigation measures. No other impacts on water resources were identified as a result of the CCGT project due to the location of the site for the CCGT plant and associated infrastructure which is not located near any water resources.</p>
<p>f) Layout map The submitted layout map does not show the proposed road as applied for under the table of listed activities. You are requested to amend the layout map to show the proposed access road the map must include the following:</p> <p>A clear description of proposed power plant and all associated infrastructure. This description must include, but is not limited to the following:</p> <p>Proposed powerlines and gas pipeline. Internal road infrastructure; and; All supporting onsite infrastructure such as laydown area and auxiliary buildings, dangerous goods facility, etc.</p> <p>All necessary details regarding all possible locations and sizes of the proposed project infrastructure.</p> <p>A copy of the final preferred layout map. All available biodiversity information must be used in the finalisation of the layout map. Existing infrastructure must be used as far as possible e.g. roads.</p>	<p>The roads and all associated infrastructure have been included in the layout and sensitivity maps (Figure 4 and Figure 61 - 62).</p> <p>The final layout map are included as Figure 4, Figure 61 and 62.</p> <p>The required infrastructure details are included on the layout maps. Details regarding roads widths are included in Table 5 of the FEIR. No no-go areas or buffer zones are applicable as there were no highly sensitive areas identified on site.</p>

COMMENT	RESPONSE
<p>The layout map must indicate the following:</p> <ul style="list-style-type: none"> • Permanent laydown area footprint; • Internal roads indicating width (construction period width and operation period width) and with numbered sections between the other site elements which they serve (to make commenting on sections possible); • Wetlands, drainage lines, rivers, streams, and water crossings of roads and cables indicating the type of bridging structures that will be used; • The location of sensitive environmental features on-site e.g. CBAs, ESA, heritage sites, wetlands, drainage lines, etc. that will be affected by the facility and its associated infrastructure; • Substation(s) and/or transformer(s) sites, including their entire footprint; • Location of access and service roads; • Connection routes (including pylon positions) to the distribution/transmission network; • All existing infrastructure on the site, especially railway lines and roads; • Buffer areas; • Buildings, including accommodation; • All “no-go” areas; and • A north arrow and legend/key, to enable the Department to interpret the layout map. • An environmental sensitivity map indicating environmentally sensitive areas and features identified during the assessment process. • A map combining the final layout map superimposed (overlain) on the environmental sensitivity map. 	

Comments and Response Table regarding the comments provided by the Gautrain Management Agency (GMA) on 2024/10/04

COMMENT	RESPONSE
<p>We refer to the Environmental Impact Assessment (EIA) Report for the proposed development of a Combined Cycle Gas Turbine (CCGT) Power Plant at the Kelvin Power Station located in Kempton Park, City of Ekurhuleni Metropolitan Municipality. The Gautrain Management Agency appreciates the opportunity to submit comments on the EIA Report and wish to be formally registered as an Interested and Affected Party (I&AP) as well as a key stakeholder in the project and to receive all future correspondence and for further engagement. As noted the proposed development including the property boundary has a direct impact on the Gautrain Rail Reserve. Our comments on the proposed development are as follows:</p>	<p>Thank you for your comment. As per the various emails sent to the GMA it has been noted that the final EIA report had already been submitted to DFFE on 20 September 2024, therefore these comments were not included as part of the original submission of the Final EIA report to DFFE.</p> <p>The GMA were originally identified as an Interested and Affected Party (I&AP) and were pre-identified as an important stakeholder at the outset of the project and have been registered on the project database since the initial Call to Register for the project took place on 14 February 2024.</p> <p>These comments from GMA were submitted directly to DFFE on 7 October 2024. The record of correspondence has now been updated with all correspondence recently received from the GMA . The correspondence from GMA including these responses will be provided to DFFE for decision-making purposes as part of the public participation information for the proposed Kelvin CCGT project.</p>
<p>1. Environmental Impact</p> <p>The EIA should include a detailed evaluation of potential environmental impacts specifically to the Gautrain alignment, during both the construction and operation phases. Key considerations should include maintaining sufficient distance, noise and vibration controls, vegetation management, water and waste water management and ensuring that safety measures are put in place.</p>	<p>No impacts are expected on the Gautrain alignment as a result of the CCGT project.</p> <p>It should no noted that there is already infrastructure in place at the site proposed for the CCGT plant. The proposed CCGT plant will be located at the previous A-station location, which has been decommissioned. The A-station cooling towers will be demolished to allow space for the proposed CCGT</p>

COMMENT**RESPONSE**

plant construction. Approval for the decommissioning of the A-Station has already been obtained from GDARD for this.

No blasting is required or proposed during construction of the CCGT plant and therefore no vibration impacts are expected to occur as a result of the construction or operation of the CCGT project. Blasting will however likely be required for demolition (of the cooling towers) at the Kelvin A-station site, for which approval has already been received. Kelvin will consult further with the GMA as the demolition proposals are being developed.

A noise assessment study was undertaken (Appendix F5 of the EIR report). As per the noise study conducted in the quantification of noise emissions and simulation of noise levels as a result of the project, it was found that environmental noise evaluation criteria will be met at all off-site Noise Sensitive Receptors. That said various additional "good practice" recommendations to reduce noise further were also included in the EMPr (Appendix G1).

An MHI quantitative risk assessment was also conducted as part of the EIA for the CCGT (Appendix F6). Refer to response provided to item 3 below for further information regarding the results of the MHI assessment as well as safety measures and plans in place at the Kelvin power station. No specific risks to the Gautrain have been identified based on the simulations conducted by the MHI specialist as a result of the construction or operation of the CCGT plant.

COMMENT	RESPONSE
	<p>Potential impacts on vegetation, water resources, and safety are identified and included in the EIAR.</p>
<p>2. Electromagnetic Interference (EMI) and Electromagnetic Induction (EMI) Impact on the Gautrain</p> <p>There is a significant concern regarding the potential Electromagnetic Interference (EMI) and Electromagnetic Induction (EMI) from the CCGT plant and its potential impact on the Gautrain system. These risks have not been adequately explored or assessed in the current report. We request further investigation and clarification on the following aspects:</p> <p>2.1 Electromagnetic Interference (EMI): EMI refers to disturbances in electrical circuits caused by electromagnetic fields. Gas turbines, along with associated components such as generators and transformers, may generate electromagnetic fields that could interfere with nearby electronic systems. In the case of the Gautrain, such interference could lead to signal disruptions, communication failures, or operational malfunctions in vital systems.</p> <p>2.2 Electromagnetic Induction (EMI): This occurs when magnetic fields induce electrical currents in nearby conductive materials, which could potentially impact the Gautrain's signalling and electrical systems. High-current electrical systems and large magnetic fields generated by the CCGT plant could interfere with the conductive components of the Gautrain's rail and infrastructure.</p>	<p>Please indicate what the limits of exposure to EMI are and please provide any EMI/EMC management plans to allow Kelvin Power to use these during project development and possible studies, if required.</p> <p>GMA's concern over the potential electromagnetic interference (EMI) and electromagnetic induction (EMI) from the CCGT plant is noted. The proposed generator will be installed about 100m to 200m away from the railway line. Whilst it is acknowledged that the generator will produce electromagnetic fields, which could cause EMI, the emissions from the generator will be controlled to ensure that they do not exceed the limits specified in SANS 60034-1:2021, Annex B.</p> <p>It is assumed that GMA equipment and systems are not susceptible to EMI effects as the GMA railway line was built and installed adjacent to an existing operational thermal power station (the existing Kelvin power station). The electrical generators that will be installed on this project are similar to the generators that were operational on Kelvin power station when the GMA line was built. Overall given the physical separation, 100m to 200m and compliance of the project with all relevant EMC standards and specifications, there is a low risk of EMI and induction effects on GMA equipment and systems.</p> <p>In line with good engineering practices, the project will implement control measures early in the design stage to eliminate any interferences and ensure electromagnetic compatibility (EMC) of the project. Kelvin will include a</p>

COMMENT	RESPONSE
<p>The EIA must assess how EMI from the CCGT plant might affect the Gautrain's signalling, communication, and operational systems. Mitigation measures, such as electromagnetic shielding, must be outlined where the rail network is in close proximity to the power plant or transmission infrastructure.</p>	<p>section on EMI requirement in the RFP which will inform the EPC bidder of this, and that EMI studies might be required.</p> <p>All relevant stakeholders including GMA will be kept apprised of the EMI/EMC control measures and risks identified during the development of the project. Kelvin will hold EMI/EMC interface meetings between the project and GMA during development if any risk of EMI are identified. The EMPr for the project has been updated to include this requirement and the updated has been resubmitted to DFFE for approval. Refer to Section 5.15 of the attached updated EMPr as proof of the inclusion of this additional requirement.</p>
<p>3. Risk Assessment: Gas Explosion and Proximity to the Gautrain</p> <p>While a Quantitative Risk Assessment (QRA) is included in the draft report, the potential safety risks associated with locating a major hazardous installation near the Gautrain system have not been thoroughly investigated. Proximity to a rapid transit system such as the Gautrain presents unique safety challenges, particularly regarding potential gas explosions or fires that could impact passenger safety and rail infrastructure.</p> <p>We request that the following be addressed:</p> <p>3.1 A detailed risk assessment focused on the possibility of gas explosions, unlikely event of a train derailment and the potential consequences for the Gautrain's infrastructure and passengers.</p> <p>3.2 Comprehensive safety and emergency plans that address risks associated with highvoltage equipment, fuel handling, and potential hazards like fires or explosions.</p>	<p>Please note that a quantitative Risk Assessment has been undertaken for the EIA (Appendix F6 of the EIA report). Kindly note that this study is not intended to replace the detailed Major Hazard Installation risk assessment, which should be completed prior to construction once final designs are available. As per the recommendation from the MHI specialist, a detailed MHI must still be conducted, however this will only be conducted once designs for the CCGT plant have been finalized and all other approvals are in place and the project is awarded preferred bidding status. This is generally considered acceptable standard practice for MHI assessments, as a detailed MHI can only be undertaken once final designs have been completed. The risk assessment was done on the information available at the time and represent the accuracy of the material supplied. This risk assessment is not a detailed MHI risk assessment, which must be completed, prior to construction, based in the final designs of the project. The detailed MHI risk assessment must also be approved by local authority, prior to commencement of construction (as per the MHI Regulations).</p>

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The gas explosion risk has been identified in the MHI risk assessment. It should be noted that no gas will be stored on site – as per section 3.1 of the EIR gas will be piped in through the existing Sasol gas supply line which runs adjacent to the power station property. From the simulations performed as part of the MHI assessment, the areas of highest risk have been identified as the release of natural gas and ammonia, however no risk to the Gautrain is expected based on the simulations conducted by the specialist as health impacts from these releases would require significant exposure time and would be more relevant to neighbouring industrial sites. It is only the scenario of a potential flash fire associated with the above-ground section of the gas connection pipeline that could extend beyond the site boundaries towards the direction of the Gautrain railway alignment, however no specific impacts or risk of fatalities would be expected at the Gautrain alignment as a result of such a potential flash fire. Mitigation will include emergency response arrangements and systems, such as alarms and shutdown systems to allow for personnel to muster in case of emergency, as well as fire-fighting systems and cooperation with emergency responders. Preventive measures would include maintenance procedures to prevent the occurrence of a catastrophic loss of containment from corrosion, fire and gas detection and firewater systems to prevent escalation as well as strict control of ignition sources and other measures, which may be required according to standards such as those prescribed by the South African National Standards system.

The combined site risk is the summation of all the individual risks associated with the CCGT plant and is shown in Figure 5-8 of the MHI risk assessment report. The risks of 1e-6 fatalities per person per year were found to remain within the facility boundary and the 3e-7 fatalities per person per year

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(representing the extent of land planning) extended a short distance beyond the site boundary but would not extend to the Gautrain servitude. As such there is no significant risk of derailing of the train as a result of any of the identified individual risks from the risk assessment conducted as part of the EIA for the CCGT plant.

Kelvin is an existing power station with a number of safety and emergency plans already in place. The MHI study made the following additional recommendations with respect to the CCGT project, which are included in the accompanying Environmental Management Programme (Appendix G1 of the EIR) – refer specifically to the bolded recommendations below:

- Kelvin shall ensure that reasonable measures are taken to ensure the safety of all site staff, including induction training for all employees and visitors.
- All staff and sub-contractors must be informed about any community concerns, especially during the construction phase. Toolbox talks can be used for this. Speed limits on the road to the site must be enforced. People that do not adhere to the speed limits shall receive the appropriate disciplinary action.

COMMENT	RESPONSE
	<ul style="list-style-type: none">• Kelvin shall provide appropriate Personal Protective Equipment (PPE) to employees wherever required and in accordance with the risks associated with their activities.• Kelvin shall undertake safety audits to ensure compliance with the Occupational Health and Safety Act (Act No. 85 of 1993) and associated regulations.• Kelvin shall implement a safety reporting procedure to ensure that all accidents and incidents (safety and environmental) are recorded and reported to the power station manager and EO.• Any containers in which hazardous substances (e.g. fuel, paints, solvents) are stored shall be clearly marked as to the contents therein (in accordance with OHS regulations).• Kelvin must complete a detailed in the MHI study once the detailed design of the plant has been finalized.• An MHI risk assessment that must be completed in accordance with the MHI regulations basing such a risk assessment on the final design and including engineering mitigation.

COMMENT	RESPONSE
	<ul style="list-style-type: none"> • Kelvin should prepare and issue of a safety document detailing safety and design features reducing the impacts from fires, explosions and flammable atmospheres to the MHI assessment body at the time of the MHI assessment • Complete a recognised process hazard analysis (such as a HAZOP study, FMEA, etc.) on the proposed facility prior to construction to ensure design and operational hazards have been identified and adequate mitigation put in place. • Kelvin should ensure full compliance with IEC 61508 and IEC 61511 (Safety Instrument Systems) standards or equivalent to ensure that adequate protective instrumentation is included in the design and would remain valid for the full life cycle of the project.
<p>4. Compliance with the Gauteng Transport Infrastructure Act (GTIA)</p> <p>The Gautrain System traverses over a proclaimed rail reserve as determined by the MEC. It is therefore prudent for the EIA to take note of the requirements of Section 46 (1) of the GTIA, where it is mentioned that, no person may lay, construct, alter or add any pipelines, electricity line or cables, telephone line or cables, any other structure within the Gautrain Rapid Rail Link servitude area, except with the written permission of the MEC, in terms of Section 46 (3) of the GTIA, (or persons authorized in writing by the MEC for such purpose or who has or represents a Company or entity that has entered into a contract with the MEC or the Province for design and/or construction</p>	<p>Refer to layout maps provided in the EIA report. The majority of the CCGT infrastructure is located within the Kelvin property to the east of the Gautrain line, and outside of the Gautrain servitude. The electrical / grid connection is proposed on the eastern side of the property away from the Gautrain infrastructure. Existing A-station infrastructure is also already located in the area, however the A-station cooling towers will be demolished to allow for the construction of the CCGT plant at the proposed site.</p>

COMMENT	RESPONSE
<p>and/or operation of the Gautrain System), or in terms of an existing registered servitude. We recommend consultation with ourselves to ensure the power plant's construction and operation are compatible with rail operations and to protect rail infrastructure.</p>	<p>It should be noted that there are already existing Sasol gas supply pipelines in place that run below the Gautrain bridge to the west of the site. A short pipeline connection will be required to connect the CCGT plant to the existing Sasol gas pipeline network however, and the current proposed route for this pipeline passes under the bridge where the Gautrain railway runs to the immediate east of the Kelvin power station property.</p> <p>EIMS has recommended that the applicant (Kelvin Power) obtain the relevant approvals in terms of Section 46(3) of the GTIA and consult further with the GMA as required, before commencing with the construction of the facility, specifically with respect to the pipeline connection that is proposed to pass under the Gautrain bridge, to ensure the project is compatible with the rail infrastructure. The EMPr for the project has been updated to include this requirement and the updated has been resubmitted to DFFE for approval. Refer to Section 5.15 of the attached updated EMPr as proof of the inclusion of this additional requirement.</p>
<p>Please see below list of Gautrain Management Agency personnel to include in your database for future correspondence.</p> <p>Ms. Dineo Kwili - dineok@gautrain.co.za</p> <p>Mr. Teboho Hlalele - tebohoh@gautrain.co.za</p> <p>Mr. Whiskey Mavoni - whiskeym@gautrain.co.za</p> <p>Ms. Mutondwa Tshisikule - mutondwam@gautrain.co.za</p> <p>Ms. Nyadzeni Radebe – nyadzenir@gautrain.co.za</p>	<p>Noted, thank you . This list of personnel will be utilized for any future projects in the vicinity of any Gautrain Rail Infrastructure. The contacts provided have also been added to the database of registered IA&Ps for the Kelvin EA Application and will therefore be notified of the DFFE's decision and the associated appeal opportunities.</p>