EIMS | ENVIRONMENTAL IMPACT MANAGEMENT SERVICES

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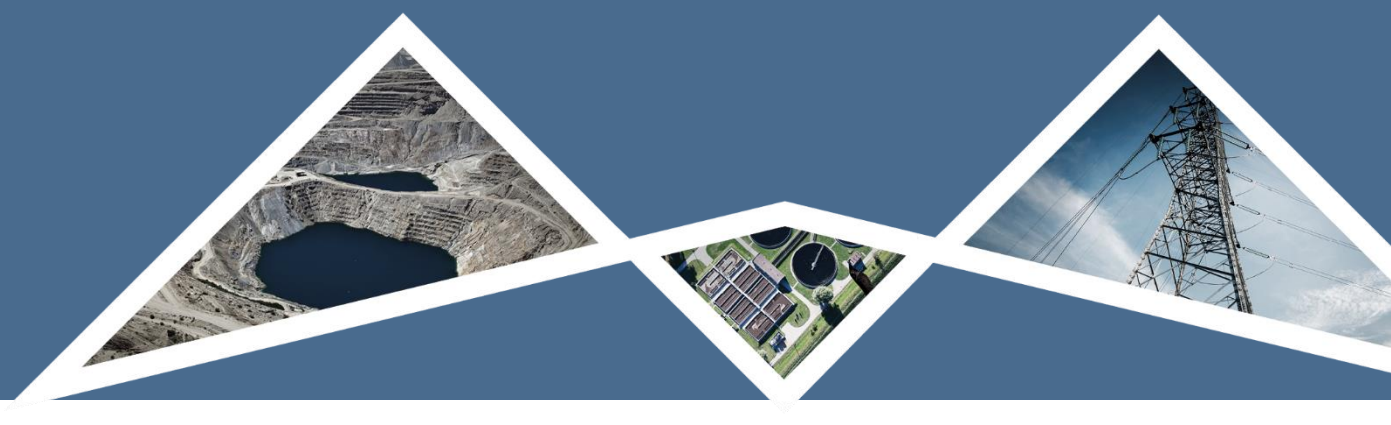
CIVIL AVIATION COMPLIANCE STATEMENT

KELVIN POWER CCGT PROJECT



DOCUMENT DETAILS

EIMS REFERENCE:	1607
DOCUMENT TITLE:	Kelvin Power CCGT Project: Civil Aviation Compliance Statement

DOCUMENT CONTROL

	NAME	SIGNATURE	DATE
COMPILED:	John von Mayer	*Sent Electronically*	2024/07/29
CHECKED:	Liam Whitlow	*Sent Electronically*	2024/07/29
AUTHORIZED:	Liam Whitlow	*Sent Electronically*	2024/07/29

REVISION AND AMENDMENTS

REVISION DATE:	REV #	DESCRIPTION
2024/03/12	ORIGINAL DOCUMENT	Civil Aviation Compliance Statement

Table of Contents

List of Figures

List of Tables

Annexures

1 INTRODUCTION

Kelvin Power (Pty) Ltd (hereafter referred to as Kelvin) has appointed Environmental Impact Management Services (Pty) Ltd (EIMS) as the Environmental Assessment Practitioners (EAPs) to assist with undertaking the necessary application processes (including the statutory public participation) and to compile and submit the required documentation in support of their 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.

Kelvin, the Applicant, proposes to develop a CCGT Power Plant with generation capacity of up to 600 megawatts (MW) to be supplied to the Eskom grid through the IPP system. The proposed CCGT Power Plant will comprise of one gas turbine, heat recovery boiler and a steam turbine. The main structures comprising the plant include a control room, gas turbine unit, mechanical draft cooling tower, steam turbine building, heat recovery steam generator (HRSG) and HRSG stack, water treatment plant for cooling tower water, raw water and demineralised water tanks, fuel gas compressor building, a High Voltage switchyard, auxiliary buildings and administration buildings. Other possible infrastructure includes additional water and treated sewage wastewater reticulation pipelines, as well as electricity transmission lines to the City Power Sebenza substation adjacent to the power station. The proposed CCGT plant will be located at the previous A-station location, which has been decommissioned.

The project is location within 8 km of a major civil aviation aerodrome (OR Tambo Airport), therefore having a very high sensitivity as per the DFFE screening tool. A Civil aviation Compliance Statement is therefore required to be completed.

The details of the EIMS EAP and consultant who compiled this compliance statement are as follows:

Table 1: EAP Details.

Name of Practitioner	John von Mayer (Project Manager/EAP)
Tel No:	+27 11 789 7170
Fax No:	+27 86 571 9047
E-mail:	kelvin@eims.co.za
Professional Registrations:	Professional Natural Scientist with the South African Council for Natural Scientific Professions - SACNASP (400336/11). Registered EAP with the Environmental Assessment Practitioners Association of South Africa - EAPASA (2019/1247).

Mr John von Mayer is a senior consultant at EIMS and has been involved in numerous significant projects the past 15 years. He has experience in Project Management, small to large scale Environmental Impact Assessments, Environmental Auditing, Water Use Licensing, and Public Participation. He is a Registered Professional Natural Scientist (400336/11) with the South African Council Natural and Scientific Professions (SACNASP) as well as a registered Environmental Assessment Practitioners Association of South Africa (EAPASA) Environmental Practitioner (2019/1247).

2 PROJECT LOCATION

A description of the application area and location as well as the properties are included in Table 2 below.

Table 2: Locality details

EA Application Area (ha)	The EA application area (proposed Kelvin Power CCGT plant) covers ~15 ha.	
Magisterial District	The proposed project falls within the Ekurhuleni North Magisterial District, Gauteng Province.	
Distance and direction from nearest towns	The EA Application area is situated ~4km to the west of Kempton Park CBD, 11 km east of Sandton, and ~14km south east of Midrand.	
Farm Name, Number and Portion as well as 21-digit Surveyor General Code	**Farm Name, Number and Portion**	**21 Digit Surveyor General Code**
	Zuurfontein Farm 33-IR portion 391 RE Zuurfontein Farm 33-IR portion 82 RE	T0IR00000000003300391 T0IR00000000003300082

Refer to Figure 1 below for a map showing the proposed development location and boundary of the site. Refer to Figure 2 below for a map showing the proposed development footprint (including supporting infrastructure) overlaid on the civil aviation sensitivity map generated by the screening tool.

The project is located within 8 km of a major civil aviation aerodrome (OR Tambo Airport), therefore having a very high sensitivity as per the DFFE screening tool.

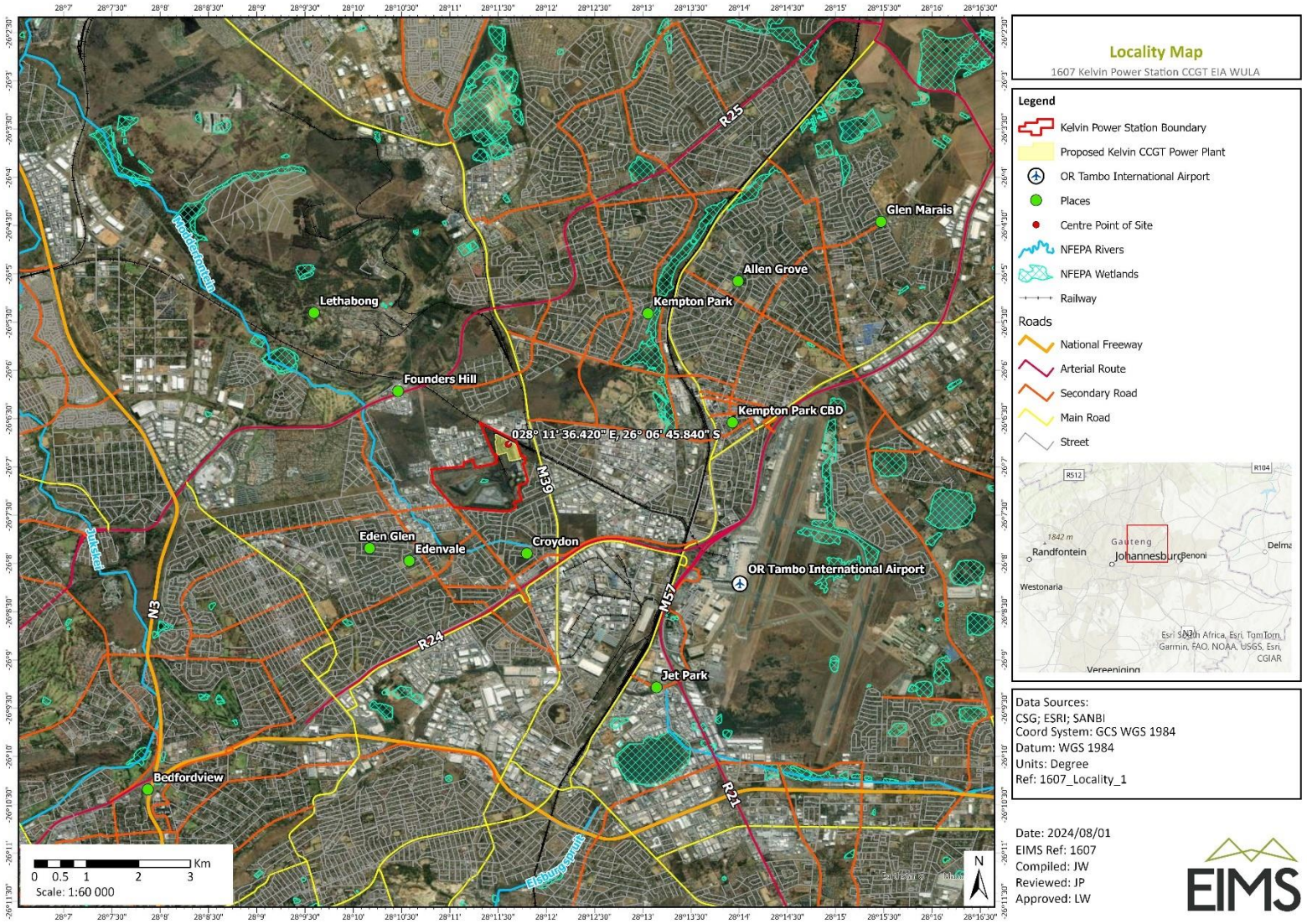


Figure 1: Map Showing Proposed Development Area in relation to OR Tambo airport

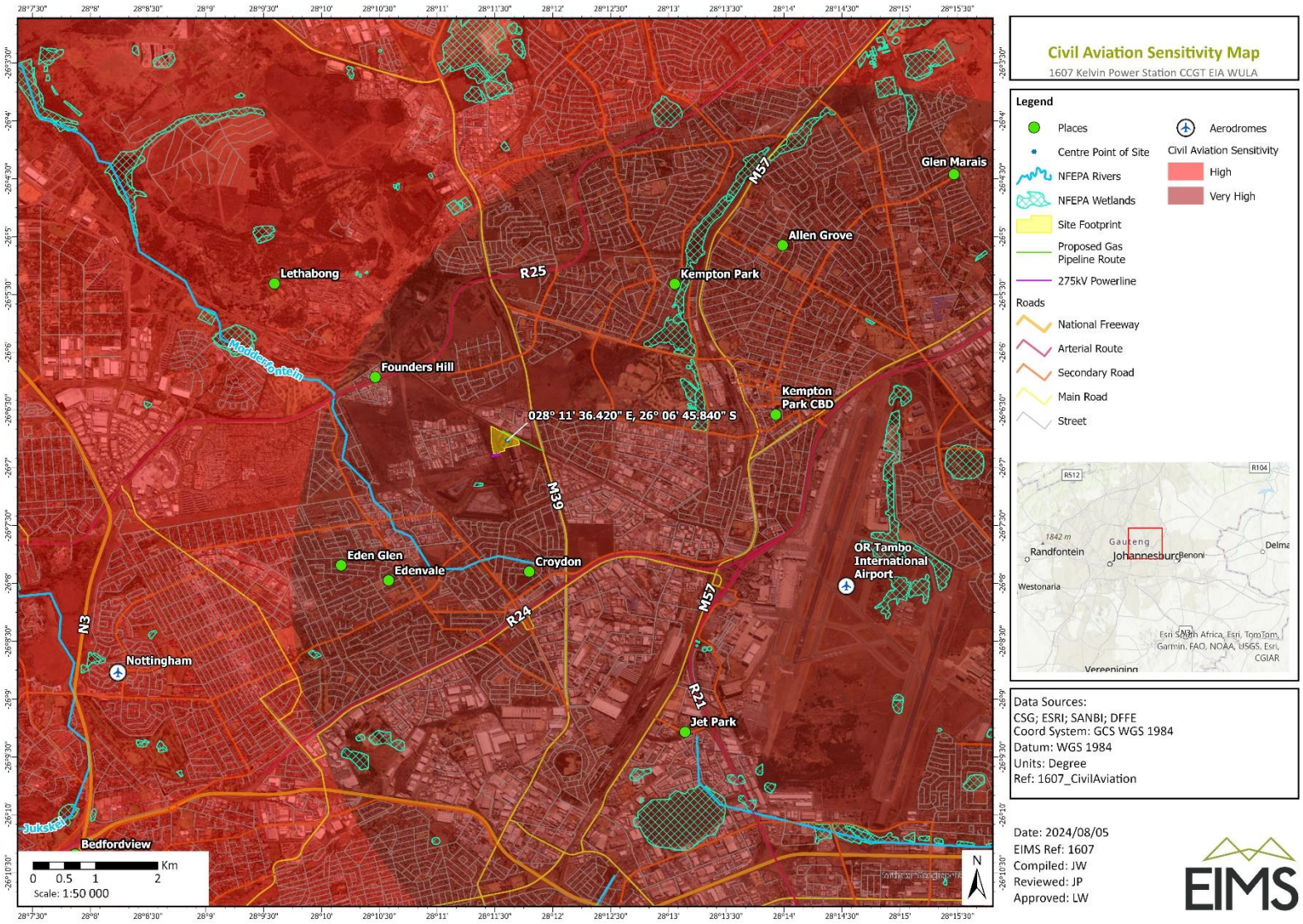


Figure 2: Map showing the proposed development footprint overlaid on the civil aviation sensitivity map generated by the screening tool.

3 RECOMMENDATIONS FROM ATNS

The proposed Kelvin Gas to Power project is in close proximity to OR Tambo International Airport (5km east of project site), Rand Airport (15km southwest of project site), and Grand Central airport (15km north of project site).

A meeting was held with Winne Lekaba from Air Traffic Navigation Services (ATNS) on 24 June 2024 to discuss the application requirements. The following key aspects were discussed:

- The proposed CCGT facility is located just under 5km from OR Tambo airport
- The proposed CCGT infrastructure is significantly shorter than the current infrastructure on the site.
- The project is already in the advanced stages of the EIA process.
- If an obstacle assessment is required, this would need to be completed prior to construction commencing as the preliminary layout is still subject to slight changes and iterations. If the project is approved the applicant would be required to complete the obstacle assessment once the detailed engineering layout has been finalized.

Subsequently a letter was received on 9 July from ATNS confirming that an obstacle assessment application be conducted through ATNS. As stated in the letter (refer to Annexure 1) ATNS does not oppose the establishment of the proposed Kelvin Gas to Power project however an obstacle evaluation application for the new CCGT project must be undertaken prior to construction.

As agreed at the meeting with ATNS on 24 June 2024, this assessment would need to be completed **prior to construction** commencing, once all detailed designs are completed and once it is clear exactly where the infrastructure will be located. It is not possible to commence with the obstacle evaluation assessment until final engineering designs for the CCGT project are complete. Mitigation measures are to be incorporated in the project EMPr in this regard to ensure Kelvin Power complete the relevant obstacle assessment for the CCGT project prior to construction commencing.

Written comment was also requested from the SA Civil Aviation Authority for this application. The SACAA confirmed in line with the above, that an obstacle assessment would be required to be conducted through ATNS. Refer to Appendices for copies of comments received from SACAA and ATNS.

4 UNDERTAKING REGARDING CORRECTNESS OF INFORMATION

I **John von Mayer** herewith undertake that the information provided in the foregoing report is correct, and that the comments and inputs from stakeholders have been correctly recorded in the report.

Signature of the EAP

Date: 29 July 2024

Appendix 1 – ATNS Comments

ATT : John Von Mayer
Client : John Von Mayer
Email : john@eims.co.za
TEL : (011) 789 7170 / 084 404 3673

Good day, John Von Mayer,

RE: PROPOSED KELVIN GAS TO POWER PROJECT

The proposed Kelvin Gas to Power project is in close proximity to OR Tambo International, Rand, and Grand Central airports.

ATNS does not oppose the establishment of the proposed Kelvin Gas to Power project, however this does not serve as **an approval/no objection letter**, the applicant still needs to apply for a detailed obstacle assessment in order to obtain a letter of objection /no objection from ATNS and a conditional Approval from the South African Civil Aviation Authority.

Please contact obtacles@atns.co.za for a detailed Obstacle Assessment application.

Kind Regards

Winnie Lekabe
Manager: Business Development | Customer Solutions
ATNS Head Office, Bruma, Johannesburg, South Africa

T: +2711 607 1164 • F: +27 011 607 1570 • C: +2782 419 1912
E: WinnieL@atns.co.za • W: www.atns.com

Appendix 2 – CAA Comments

SOUTH AFRICAN CIVIL AVIATION AUTHORITY

Physical Address:
Ikhaya Lokundiza
Treur Close
Waterfall Park
Bekker Street
Midrand

Postal Address:
Private Bag X 73
Halfway House
1685

Telephone Number:
+27 0860 267 435

Fax Number:
+27 11 545 1465

E-mail Address:
mail@caa.co.za

Website Address:
www.caa.co.za

Southern Region Office:
PO Box 174
Cape Town
International Airpo
Tel. Number:
+27 21 934 4744
Fax Number:
+27 21 934 1326

Aviation Environmental Compliance
Tel No: +27 11 545 1199
Email: environment@caa.co.za
Enquiries: Ms. Evelyn Shogole

15 March 2024

Environmental Impact Management Services (Pty) Ltd
P.O. Box 2083
Pinegowrie
2123
Attention: Jolene Webber

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 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

SACNASP

South African Council for Natural Scientific Professions

herewith certifies that

John Paul von Mayer

Registration Number: 400336/11

is a registered scientist

in terms of section 20(3) of the Natural Scientific Professions Act, 2003
(Act 27 of 2003)
in the following field(s) of practice (Schedule 1 of the Act)

Environmental Science (Professional Natural Scientist)

Effective **31 August 2011** Expires **31 March 2025**

Chairperson

Chief Executive Officer

To verify this certificate scan this code