	Scope of Work	Generation Tutuka Power Station Risk and Assurance
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Title: The provision of Quality Assurance Activities on Outages (Planned and Unplanned), Maintenance and Projects activities at Tutuka Power Station for a period of 5 years.

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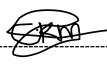


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CONTROLLED DISCLOSURE

1. Introduction

This contract establishes the framework for the provision of Quality Assurance (QA) activities in support of planned and unplanned outages, maintenance, and project-related activities at Tutuka Power Station. The duration of this contract is set for a period of Five (5) years.

The scope includes, but is not limited to, the execution of Quality Assurance oversight, verification of compliance with technical specifications and regulatory requirements, documentation reviews, and the provision of quality-related reports and recommendations. These services will be carried out in collaboration with station personnel and other contractors to support Tutuka Power Station's commitment to operational excellence and continuous improvement.

A contractor is required to provide this service to strengthen its quality management systems, mitigate operational risks, increase production, and ensure the long-term reliability and safety of Tutuka Power Station.

2. Supporting Clauses

2.1 Scope

2.1.1 Purpose

To propose and approve a contracting strategy contract for Coordinating Quality Assurance in support of outages, maintenance, and project-related activities.

2.1.2 Applicability

This scope is applicable to only Tutuka Power Station.

2.1.3 Effective date

The effective date will be from the authorisation date.

2.2 Normative/Informative References

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

2.2.1 Normative

ISO 9001 Quality Management Systems

240-168966153: Generation Tender Technical Evaluation Procedure

240-106628253: Standard for Welding Requirements on Eskom Plant

ISO 3834 Quality of welding

32-1034: Eskom Procurement and Supply Chain Management Procedure

32-1033: Eskom's Procurement and Supply Chain Management Policy

240-53114186: Document and Records Management

OHSA: Occupational Health and Safety Act 85 of 1983

Occupational Health and Safety Act, 1993 (No 85 of 1993): OHS Act, Regulation and code

QM58: Eskom's Quality Requirements

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2.2.2 Informative

N/A

2.3 Definitions

None

2.4 Abbreviations

Abbreviation	Explanation
ISO	International Standards Organization
NCR	Non-Conformance Report
OHS Act	Occupational Health and Safety Act
PPE	Personal Protective Equipment
QC	Quality Control
QCP	Quality Control Plan
QIP	Quality Inspection Plan
SANS	South African National Standards
SHEQ	Safety Health Environment and Quality
QA	Quality Assurance

2.5 Roles and Responsibilities

The relevant stakeholders' roles and responsibilities will be as stated below:

2.5.1 Quality Department

- Assist in compiling the scope of work for the Quality Contract
- Conducts technical evaluation, as per the issued technical evaluation strategy
- Responsible to coordinate the works, all contract management requirements and liaising with the *Contractor where necessary*
- Responsible for supervising the works being executed
- Ensures that quality legislation and standards are adhered to, and quality practices are implemented at all times during execution of the works.

2.5.2 Principal Contractor

- As per OHS Act (85/1993), executes scope of work as issued by the Employer without causing harm to the personnel, environment, and plant equipment/machinery.

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- b. Ensure good plant safekeeping after the execution of their duties and store all waste/dirt in designated areas as stipulated by Eskom personnel.
- c. Issue a report on a weekly basis of what has been done and found with the necessary solutions.

2.5.3 Tutuka Environmental

Ensures that environmental legislation and standards are adhered to, and environmental practices are implemented at all times during execution of the works.

2.5.4 Tutuka Safety

Ensures safety legislation and standards are adhered to, and that safety practices are implemented at all times during execution of the works.

2.6 Process for Monitoring

This document is controlled disclosure for Tutuka Power Station.

The procurement department will adjudicate the tender evaluation and contract appointment. The *Contractor* will daily/weekly/monthly compile a report which will ensure the works are executed within the relevant technical aspects and SHEQ requirements

2.7 Related/Supporting Documents

[1] Technical Evaluation Strategy

[2] NEC

3. Constraints

3.1 General Constraints

- a. Optional site tender briefing session/scope clarification meeting can be conducted on requested by the Tenderers.
- b. All technical queries to be directed to Quality Department.
- c. Contractor to provide returnable schedules in accordance with the technical evaluation strategy issued by the *Employer*.

4. Scope of Work

4.1 Executive Summary

Works information

- Co-ordinate, oversee and control quality assurance activities
- Conduct toolbox talks on a daily basis.
- Provide Leadership on Quality Assurance from end to end process
- Transfer of skills to the Tutuka Power Station's employees

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- Provide quality Assurance on focus/priority plant as directed by the client
- Provide quality related failure trends and analysis
- To give assurance of high-quality works on plant activities
- Raise an NCR against the contractor.
- Conduct effectiveness reviews on corrective actions
- Monitor compliance to Eskom procedures, standards, processes, and QCP requirements and report quality related issues
- Submit weekly quality reports for quality assurance
- Contractor to understand Eskom's Quality Requirements and to be provided with Quality related Procedures.
- All quality inspectors to have SAP PM training and access in order to check and do QC sampling on PM's
- All Eskom required training will be provided by Eskom.
- All personnel who enter the station must abide to Eskom rules and regulations and will comply with Eskom Life Saving rules.
- All communications must be printed and filed in *Service Manager's* file.
- Timesheets to be logged and signed by *Services Manager* and *Contractor*.
- All PPE to be provided by *Contractor* and must be SABS approved.
- All work to be done under permit to work and signing of LAR
- Yearly induction and medical surveillance to be done for all personnel

Co-ordinate and control quality assurance activities

- Review and provide quality assurance on quality control plans considering high priority defects, production, targets, plant availability, planned and unplanned maintenance, staff, contractors, and spares availability etc
- Approve "stop work" orders if quality and safety standards are compromised
- Control the close-out of quality deficiencies (NCRs) by reviewing and approving initiatives, proposals or corrective actions for improvements
- Review and provide quality assurance on QC processes by reviewing all documentation and system information and validate information to maintain accurate data.
- Identify potential project quality risks - assurance.
- Conduct quality audits
- Conduct effectiveness reviews on corrective actions

Perform physical inspections on Maintenance, Projects and Outage activities to ensure Quality Assurance

- Perform inspections and determine if standards are met.
- Identify and report non-compliances.
- Recommend possible changes to maintenance standards or practices.
- Assess, monitor and report good and sub-standard work practices.
- Verify that documentation conform to requirements and standards by reviewing work packages, maintenance plans, procedures and modification packages according to the relevant administrative controls, identify and report non-conformances.
- Inspection reports are used to document the condition of the plant, assets and communicate findings.
- Address identified issues promptly and ensure that necessary repair/steps or adjustments are completed.
- Follow up on any plant related issues/problems/repairs with the proper documentation.

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Provide Professional advice and leadership on QA issues

- Advise and provide leadership on all Quality Assurance related issues.

4.2 Employer's requirements for the Service

Employer's requirements for the service

The *Contractor* will provide the following service:

- Influence quality control methods and documentation to meet any changes to assurance requirements
- Assist Eskom personnel to review QCPs and ITPs
- Assuring adherence to Eskom Quality standards and procedures
- Verify that documentation CONFORMS to requirements and standards.
- The Contractor to adhere to the following:-
 - Collaborate with other departments during plant inspection activities
 - The Contractor will attend meetings to discuss any items arising in connection with this Quality Assurance with the Service Manager and to complete the assessment
 - The Contractor, QC Department to inform/discuss with stakeholders for possible Quality Assurance inspections
- Identify and report non-conformances – To be completed with close out forms - comprehensively
- Prioritize activities for quality assurance verifications.
- Assess, monitor and report good and sub-standard work practices
- Conduct external inspections of suppliers and products for conformance to specifications
- Verify processes, planning, work packages, procedures
- Verify conformance to standards and assist in the prevention of recurring deviations
- Review work packages, planned maintenance, procedures and modification packages according to the relevant administrative controls.
- Assist and advise on technical history reviews.
- Investigate and initiate / recommend / assist with proposals for corrective actions and the improvement of poor-quality assurance
- Control corrective actions arising from quality deficiencies and expedite the closure thereof.
- Advice and assist to Eskom maintenance with regard to procedure and work package compilation
- Liaise with Engineers, Management, Contractors and Maintenance on any plant related issues with relevant solutions documented
- Drawings, memo's, out of normal, scopes, cutting instruction to be issued by the Engineer
- Provide advice with regard to rules, regulations and code requirements (welding) – AIA to assist
- Liaise with maintenance line sections with regard to queries.
- Conduct presentations and / or training on quality assurance practices.

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- The *Contractor* to carry out Quality Assurance activities by performing inspections during normal maintenance and during Outages as per the *Employer's* specifications.
- All inspections done by the *Contractor* should be in accordance with *Employer's* requirements.
- All new areas and plant to be inspected as not listed in this contract for each discipline on the *Employer's* site only

4.3 Employer's Objectives

High Quality service to be delivered to Tutuka Power Station on Quality assurance activities in all plant areas

Electrical Quality Assurance verifications (all plant areas)

- Generator inspections and tests
- HV and LV transformers inspections and tests
- HV and LV motors inspections and tests
- HV and LV electric cables inspections and tests
- Generator Circuit Breakers inspections and tests
- Protection Tests
- Switchgear inspections and tests
- Boards Maintenance
- Isolated Phase Bus bars and Bus Ducts inspections
- Lighting and small power Installations inspections and tests
- Hydrogen plant systems inspections and tests
- Electrostatic Precipitator plant inspections and tests
- DC Plant inspections and tests
- Conduct root cause failure analysis and subsequent postmortem
- Conduct inspection on the refurbishment of all electrical plant equipment
- Conduct Audits

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Turbine Quality Assurance verifications (all plant areas)

- Valves
- Condensate drains cooler
- LP and HP safety valves pressure testing
- LP and HP heater valves
- Feed water valves
- Auxiliary steam range valves (steam valves, safety valves, steam air injectors, including the main range isolating valves)
- Audits
- Scope reviews
- Incident investigations
- Challenge schedules
- QCP review and approval

Outside Plant/ Inside Plant Mechanical Quality Assurance verifications / Boiler Plant (all plant areas)

- ASH and Dust plant
- Slurry Plant
- Air Heaters
- FD, PA and ID fans
- S03 plant (bag filter plant)
- Mills, feeders and dampers
- Pumps
- HP bypass valves (spray water and main valves) and hydraulic control systems
- Valves - LP and HP
- Precipitators
- Audits
- Stores receiving inspections
- Conveyors (Ash, CSY, ash disposal and Coal)
- Submersible Scraper Conveyor
- Soot Blower System – lances, poppet valves, sootblower valve station, drain lines, supply lines
- Turbine leg drains NRV's, hand isolating and hand regulating valves
- Boiler vents and drains (0m level, 3m level, 16m level and 57 m level)
- 50% Drains – Isolating and Regulating (including bypass valves)
- Boiler main steam stop valves (including bypass valves)

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- Auxiliary steam range
- Circ system pump, cooler and valves
- Spray water system (Superheaters and Re-heaters)
- Air heater washing tanks and control valve systems
- Brine Concentration Pant
- Pressure Parts
- HP Pipework
- PF Burners
- Fuel Oil/Oil Burners
- SSC
- Blow Down Vessel & connecting pipework
- Sump & Trenches
- Dirty and Clean Water Dams.
- All Civil related work (Road works, structures, dams, dredging, buildings, sewerage, drainage system)
- Demin storage tank and Deaerator, steam valves and safety valves

Welding Quality Assurance verifications (all plant areas)

All welding – pressure parts:•

- Fuel oil Burners
- Precipitators (Welding)
- Mills
- Dampers
- Valves (as per Employer's scope of work)
- Audits
- Stores Inspection
- Internal and External Evaluations on Contractors (Due Diligence).
- Safety file review
- Material identifications (Positive Material Identification)

Auxiliary Quality Assurance verifications (all plant areas)

- Valves on CPPs and air ejectors
- LP and HP safety valves pressure testing
- LP and HP heaters valves
- Feed water valves
- LP demin tanks

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- Air receiver and safety valves pressure testing
- Compressors
- De-aerator Tank pressure test and valves
- Feed water tank valves.
- Station pressure vessel valves
- Statutory inspections on all safety valves
- Coal Plant
- Conveyor belt
- Coal Stockyard all systems
- Re-heaters spray water valves
- Chemical services all mechanical equipment, pumps valves and pipes)
- Lime plant all systems
- CW system { cw on mills, lube oils, fans, motor coolers, SSC make ups, circ pump cooler)
- Tutuka Aerodrome
- All Water Reservoirs
- Cooling towers
- Cranes
- Ash Plant and ash disposal all systems

Control and Instrumentation (C&I) Quality Assurance verifications (all plant areas)

- Calibrations and calibration standards
- Instrumentations
- Boiler, Turbine and Outside plant protections
- Boiler, Turbine and Outside plant controllers
- Plant actuators and control valves stroking
- Control and Instrumentation plant projects and refurbishments
- Cold and hot commissioning
- Inspection of spares and materials before entry to spares
- Review of QCP / ITPs
- Review of procedures and maintenance plans
- Incident investigations and root cause analysis
- Evaluation of tender quality returnable
- Fire Detection system
- Actuators – stroke check
- Audits

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Quality Assurance – Responsibilities

- Give advice on all quality issues at technical and policy level
- Ensure compliance to recent/ updated Edition ISO 9001
- Provide technical expertise and support to the business
- Give assurance that the work performed meets the minimum standards established by the specifications
- Give feedback and report any quality issues to the Service Manager
- Manage and assist in implementation of the quality management system audit programme during contract duration
- Perform assignments in accordance with professional standard and legislation as requested by the Service Manager
- Provide regular quality assurance oversight reports to the Service Manager
- Understanding of international and national agreements and trends in the quality field
- Incident investigations and root cause analysis
- Audits

The Qualification and Experience Requirements

#	Quality	Qualification
1.	Electrical Quality Inspector (All plant areas)	<ul style="list-style-type: none"> • National Diploma in Electrical Engineering (Heavy Current) • 5 years Heavy Industrial Experience of which a minimum of 3 years should be at a Power Station. • 3 Years Electrical QC Inspector • Must be able to review scopes , generate or review PQPs • Must be able to read engineering Drawings • Knowledge of NCR processes • Knowledge of ISO 9001:2015 standard • Conduct Quality Audits • Data book inspection and reviews
2.	Turbine and Valve Quality Inspector	<ul style="list-style-type: none"> • National Diploma in Mechanical Engineering • Trade test in fitting and machining

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		<ul style="list-style-type: none"> • 5 years post apprenticeship Experience Of which 3 years should be power station experience. Must have 3 years Turbine and Generator inspection experience • 3 Years Quality Control experience in the overhauling of the turbine/generator • Have experience in the overhauling of the following pumps, valves(H.P & I.P control valves, emergency stop valves),lube oil systems, oil pumps • Should have experience in pressure testing of equipment • Should be able to read micrometers (inside &outside micrometers) • Should be able to work to very close tolerances of about(0.02mm) • Should be able to use a clock gauge/ dial test indicator • Should be able to check run outs on • Shafts • Must be able to review scopes , generate or review PQPs • Must be able to read engineering Drawings • Must be competent in conditioning monitoring i.e. vibration analysis, tribology, • Must have knowledge of turbine maintenance philosophy • Knowledge of pneumatics and hydraulics • Knowledge of NCR processes • Knowledge of ISO 9001:2015 standard • Data book inspection and reviews
3.	Outside Plant and inside plant Mechanical Quality Inspector	<ul style="list-style-type: none"> • National Diploma in Mechanical Engineering • Trade test certificate in fitting and turning • 5 years post apprentice experience • 3 years specializing on rotating equipment e.g. pumps

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		<ul style="list-style-type: none"> • Must have 3 years mechanical • Quality inspection experience • Should be able to read micrometers • (inside & outside micrometers) • Should be able to work to very close tolerances of about (0.02mm) • Should be able to use a clock gauge/ dial test indicator • Should be able to check run outs • Must be able to verify laser alignment • Should be able to read engineering drawings • Knowledge of pneumatics and hydraulics • Knowledge of NCR processes • Knowledge of ISO 9001:2015 standard • Data book inspection and reviews.
4.	Welding Quality Inspector	<ul style="list-style-type: none"> • SAIW Welding and Fabrication inspector Level I and Level II • IIW International Welding Inspector • Comprehensive (IWI-C) • IIW International Welding Inspector Standard (IWI-S) • 5 years Heavy Industrial Experience of which 3 years at a Power Station • 3 Years Quality Control experience in welding • Knowledge of receiving and Inspections on all plates, pipes and tools components. • Experience and good knowledge of scope of work reviews. • Review of QCP's, Verification of Drawings and Materials. • Verification marking out of cut lines as per Engineering Instructions. • Verification of NOT reports and procedures.

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		<ul style="list-style-type: none"> • Verification of consumables. • Witnessing of fit-ups, root runs and weld contour. • Verify welding procedures and welding qualifications. • Control of deviation through NCR procedures. • Final inspection data book reviews and release. • In depth knowledge of all welding standard, design, inspections and testing Codes • Specifications relevant to the Power Generation industry. • Witnessing of pressure and leak tests. • Red seal welding certificate is an added • Data book inspection and reviews • Knowledge of ISO 9001:2015 standard.
5.	Auxiliary Quality Inspector	<ul style="list-style-type: none"> • National Diploma in Mechanical Engineering • 5 years Heavy Industrial Experience of which 3 years at a Power Station • Engineering drawings interpretation • 3 years chemical and water plant experience • 3 years' experience in quality control • Knowledge of ISO 9001:2015 standard • Cooling Water systems for Power plants • 3 years Condition monitoring experience • Plant and equipment alignment (clock gauge/laser) • Practical Machinery Vibration analysis & Predictive Maintenance • 3 Years RBO experience • ASME -Setting of Standards • Pump maintenance • Gear box maintenance

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		<ul style="list-style-type: none"> • 5 years knowledge in compressor maintenance • 5 years machine-shop experience with limits and fits • Knowledge of Boiler Plant Operation • Deming Water plant Operation • Fluid Catalytic Cracking Unit Operation • Data book inspection and reviews
6.	C&I Quality Inspector: All Plant Areas	<ul style="list-style-type: none"> • National Diploma in Instrumentation Engineering (Light Current/C&I) • 5 years Heavy Industrial Experience of which 3 years at a Power Station • 3 Years Quality Control experience • DCS/SCADA/PLC experience. • Commissioning and Decommissioning Experience • Knowledge of ISO 9001:2015 standard • Knowledge of pneumatics and hydraulics • Data book inspection and reviews
7.	Quality Supervisor	<ul style="list-style-type: none"> • National Diploma in Engineering/Quality • 5 years Heavy Industrial Experience of which 3 years at a Power Station, 2 years Supervisory Experience • 3 Years Quality Control/Assurance experience • Certificate of any Quality related courses • Knowledge of ISO 9001: 2015 quality management system • 2 Years Quality Auditing Experience • Sound knowledge of Eskom Business processes • Knowledge of safety and risk assessment • Root Cause Analysis • Failure mode effective analysis • Knowledge of supplier audits

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		<ul style="list-style-type: none">• Knowledge of deviation control through NCR procedures.• Data book inspection and reviews
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Contractor to adhere to the following:

The *Contractor* will also provide: -

- Documentation that verifies that the work performed meets the minimum standards established by the specifications.
- Weekly and Monthly activity reports to indicate their involvements in the daily running of the Power station and interface with the relevant department.
- Monthly presentation of quality risks, issues, actions, solutions, and improvement actions.
- Report reworks and cost saving methods.
- Conduct and Provide report on *Supplier/Contractor* quality internal Audits.
- Offer on the job and awareness training.
- Submit monthly reports for plant failure mode effective analysis

Special Requirements

- Risk assessments must be completed before each task.
- The contractor shall comply to Eskom Lifesaving rules.
- Eskom safety, quality and outage meetings to be adhered to – teams or in person
- The *Contractor* will comply within Eskom Quality Standard's.
- Site conditions will be according to the Eskom and Safety regulations standards.
- Tools, site, cabins and equipment shall be inspected by Contractor and check sheet must be filled and ensure to maintain good housekeeping.
- Audits on Contractor will be done on a frequent basis.
- 4 x BSO evaluations to be done each month
- All Eskom Safety Regulations must be adhered to.
- Review Quality Control Plans and Contract Quality Plans as per requirement of QM58
- Eskom Transport procedures to be always adhered to
- The *Contractor* to have and comply to the following documents: -
 - Quality Management System Requirements ISO 9001: 2015 version
 - Valid Certification of Quality Management System by an ISO accredited body
 - The *Contractor* to be ISO 9001: 2015 certified

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General

- Perform Quality Assurance activities on Outages, Projects and Maintenance activities as-and-when requested.
- Working hours is Eskom working time and overtime might be required depending on the workload.
- A request for absence from the workplace must be negotiated with Eskom. In periods of absence a negotiated substitute will replace the absentee.
- If the *Contractor* were like to bring in extra people under its control, it must be negotiated with the *Employer*.
- In case of a *Contractor's* employee (Quality Inspector) leaving work or terminating His/her contract for any reason, The *Contractor* shall ensure replace the absent employee within 2 weeks
- All records will be seen as Eskom property and may not be used for other companies.
- Any deviations to the program / plan to be communicated within eight hours.
- The *Contractor* will be working along with other *Contractors*
- *Contractor* to supply own consumables
- Private calls and internet connection will be on the account of the *Contractor*
- The *Contractor* to provide proof of experience and qualifications for approval by *Service Manager*.
- The *Contractor* will report directly to the *Service Manager*.
- Audit on *Contractor* will be done on a frequent basis as per Employer's Audit Plan.
- *Contractor* to make use of own facilities and provide own tea, coffee, sugar, etc.
- Quality control plan and contract Quality plan approval process standards as per QM 58 to be adhered to.
- The *Contractor* will make use of the LAR system.
- Workers register and Risk Assessment Form must be completed before each task.
- Eskom required and relevant training for the services will be provided by *Employer*.
- All communications must be done electronically or printed and filed in *Service Manager's* file.
- *Contractor* personnel to attend meetings as requested by the *Service Manager*
- Timesheets to be logged and signed by *Service Manager* and *Contractor*.
- All PPE to be provided by *Contractor* at own cost and must be SABS approved.
- Yearly induction for all personnel.
- All work to be issued via the SAP Plant Maintenance system (Work Order & Purchase Order).
- All defected equipment / material to be reported to the *Employer* via SAP System.

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5. Manpower and Site Establishment Requirements

Manpower plan

The contractor will provide the following resources:

- 1x Quality Supervisor
- 4x Welding Quality Inspectors (2x Level 1 Inspectors & 2x Level 2 Inspectors)
- 2x Electrical Quality Inspectors
- 2x C&I Quality Inspector
- 5x Mechanical Inspectors (extensive experience)
- 1x Civil Quality Inspector as and when required

Resources are required to conduct onsite and offsite inspections when required.

Site Establishment

- The contractor is to establish their own site (Park home) at the start of the contract and to de-establish it at the end of the contract. Site conditions will be according to the Eskom and Safety regulations standards.
- Tools, site, cabins and equipment shall be inspected by Contractor and check sheet must be filled and ensure to maintain good housekeeping.

6. Acceptance

This document has been seen and accepted by:

Name	Designation
Armando Mathebula	Maintenance Manager, Boiler and Turbine Valves
Elvis Maremene	Manager, Maintenance
Mxolisi Ntanzu	Manager, Projects
Terry Maseko	Manager, Outages (<i>Acting</i>)
Mikateko Matlole	Maintenance Manager, Mechanical
Nathi Mabaso	Auxiliary Engineering Manager
Sello Kgantsi	Maintenance Manager, Mechanical
Ryan Hector	Manager, Electrical Plant
Rhulani Lowani	Maintenance Manager, Mechanical
Takalani Mabirimisa	Maintenance Manager, Turbine
Geoff Ledwaba	Manager, C&I Plant
Nomkhosi Ramonotsi	Maintenance Manager, C&I
Bennie Naude	Senior Advisor, C&I
Sanelisiwe Radebe	Maintenance Manager, Works Management
Jerry Dlamini	Maintenance Manager, Mechanical
Lele Masote	Manager, Engineering
Phathamandla Sithole	Civil Engineering Manager
Aneske Jurie	Design and Specification Manager
Pikela Chauke	Boiler Engineering Manager, (<i>Acting</i>)
Lebogang Ramphago	Turbine Engineering Manager

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Name	Designation
Ditsoanelo Nkosi	Outage Manager
Lucas Nyembe	Contracts Manager

7. Revisions

Date	Rev.	Compiler	Remarks
July 2025	1	Marius Prinsloo	Document development

8. Development Team

The following people were involved in the development of this document:

- Marius Prinsloo
- Boitumelo Kotu
- Mosiuoa Mona
- Keamogetse Merementsi

9. Acknowledgements

N/A

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