

	SOW	Camden Power Station
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Title: **Camden Power Station
Maintenance of Auxiliary Plant
Systems**

Document Identifier: **240-167180097**

HBS / Functional
Location (Technical
Docs):

Area of Applicability: **Auxiliary Plant**

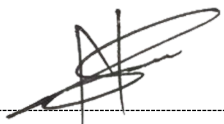
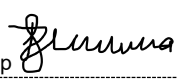
Functional Area: **Maintenance**

Revision: **2**

Total Pages: **21**

Next Review Date: **Once-off doc**

Disclosure
Classification: **Controlled Disclosure**

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1. Introduction

A Power Station's Auxiliary Plant Systems are a critical part of the plant infrastructure and is crucial for production of electricity.

Routine preventative maintenance of plant equipment is key in order to ensure the reliable supply of the following services:

- Compressed Air
- Demineralised and Potable Water
- Fire Protection
- Hydrogen
- Service Water

Maintenance Strategies compiled by System Engineers provide a framework of the tasks (and frequencies of each task) required to ensure optimal performance and reliability of each system. The execution of these tasks is conducted by the Maintenance Contractor under the supervision of the Maintenance Department.

2. Supporting Clauses

2.1 Scope

The Auxiliary Plant Systems, for the purposes of this report, shall include pumps, valves, distribution pipework, supports and storage vessels. It includes the following systems in particular:

- Chiller Plant
- Compressed Air Plant
- Cooling Water (CW) Plant
- Desalination Plant
- Effluent Recovery Plants (Coal Stockyard Pumping System, Effluent Plant, Oil Skimming Plant and the Reclamation Dam Pumping System)
- Fire Protection Plant
- Hydrogen Production Plant
- Raw Water Dams Pumping System
- Service Water
- Sewage Treatment Plant
- Water Treatment Plant

2.1.1 Purpose

The purpose of this document is to define the minimum requirements for the maintenance and repairs of the above mentioned systems in accordance with Eskom and SANS standards.

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2.1.2 Applicability

- Auxiliary Plant Engineering
- Auxiliary Plant Maintenance
- Appointed Contractor

2.1.3 Effective date

See date of authorized signature

2.1.4 Normative References

- [1] Eskom SHEQ policy 32-327
- [2] OHS Act 85 of 1993
- [3] PSR and ORHVS
- [4] PER Pressure Equipment Regulation 2009
- [5] QM-58 Supplier Contract Quality Requirements Specification
- [6] ISO 9001 Quality Management Systems
- [7] <http://mbsa.eskom.co.za/PMTemplates/MainTStrategy> - Maintenance Execution Strategy for Camden Power Station
- [8] 240-106628253: Standard for Welding Requirements on Eskom Plant
- [9] 240-83539994: Standard for Non-Destructive Testing (NDT) on Eskom Plant

2.1.5 Informative References

N/A

2.2 Definitions

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2.3 Abbreviations

Abbreviation	Description
CBM	Condition Based Maintenance
CM	Corrective Maintenance
CW	Cooling Water
EOD	Electrical Operating Desk
HV	High Voltage
ISO	International Organization for Standardization
LDV	Light Duty Vehicle
MERSETA	Manufacturing, Engineering and Related Services Sector Education and Training Authority
NDT	Non Destructive Testing
NRV	Non Return Valves
OEM	Original Equipment Manufacturer
OHS	Occupational Health and Safety
PM	Planned Maintenance
PPE	Personnel Protective Equipment
PSR	Plant Safety Regulations
PTW	Permit to Work
QCP	Quality Control Plan
SANS	South African National Standards
SAP	Systems, Applications and Products
SHEQ	Safety, Health, Environment and Quality
SOW	Scope of Work
WM	Works Management

2.4 Roles and Responsibilities

- **Auxiliary Plant Engineering:**
Compilation of Maintenance Strategies and Maintenance Scope of Works (SOW's) required to ensure optimal performance and reliability of each system
- **Auxiliary Plant Maintenance:**
Expedition of the tasks stipulated in the Maintenance Strategy
- **Maintenance Contractor:**
Execution of the tasks stipulated in the Maintenance Strategy

2.5 Process for Monitoring

N/A

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2.6 Related/Supporting Documents

N/A

3. Scope of Work

The following scope of work shall involve the full spectrum of work required to maintain the Auxiliary Plant Systems (as per the individual Plant Maintenance Strategies) and will include (but not limited to) maintenance inspections, repairs and service/overhaul of the Auxiliary Plant equipment at Camden Power Station on a full time basis.

3.1 Contractor Responsibilities:

- The Contractor will be responsible for the following activities per plant area:

Aux Plant System	Contractor Responsibility
Chiller Plant	- PTW application and acceptance - Mechanical maintenance
Compressed Air Plant	- PTW application and acceptance - Mechanical maintenance on compressor pipelines and valves in both the East and West compressor houses - Mechanical maintenance on compressed air manifolds for all 8 units - Removal and installation of hot air extraction ducts - Removal and loading of dryer desiccant NB. Service of the Compressors will be conducted by the OEM and will NOT be included in this contract
Cooling Water (CW) Plant	- Inspection and Maintenance of Cooling Tower sprinklers, end caps, pipes, drift eliminators, the fill, walk ways, slide gates, screens and float valves. NB. The Contractor must be able to conduct inspection and repairs with the Cooling Towers in service - Off-load high pressure cleaning of distribution pipes, fill and drift eliminators

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Aux Plant System	Contractor Responsibility
Desalination Plant	• Inspection and repairs on the pipeline supplying the Desalination Plant with feed water and the pipeline recycling treated water back to the CW system • PTW application and acceptance
Diesel Engines	• Inspection • PTW application and acceptance • Conducting performance testing of the diesel engine water pumps • Connecting and monitoring mobile diesel engines on the dams and around the station during rainy season • Installation of suction and discharge pipes for the above mobile engines • Inspections of workshop machines
Diesel Generators	• PTW application and acceptance for the engine only
Effluent Plant	Complete Maintenance
Fire Protection Plant	Complete Maintenance
Gratings and Handrails	• Inspection • Repairs
Hydrogen Production Plant	• Inspection • PTW application and acceptance • Connection of Hydrogen gas cylinders
Overhead cranes	PTW application and acceptance
Raw Water Dams Pumping System	Complete Maintenance
Service Water	Complete Maintenance
Sewage Treatment Plant	Complete Maintenance
Water Treatment Plant	Complete Maintenance

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3.2 Maintenance Requirements

- The Contractor will be required to conduct routine inspections, mechanical repairs and inspections in accordance with the details and inspection frequencies on the various maintenance strategies
- The Contractor is expected to take permits as per the Plant Safety Regulations (PSR) and High Voltage (HV) regulations. The Contractor must have responsible persons for each activity during normal working hours and on standby (and for multiple activities when required by the Employer if it is deemed to be safe)
- The Contractor is further expected to liaise on a daily basis with the Operating Department to plan work and to optimise the availability of the plant
- The Contractor will also be required to load defects on the Systems, Applications and Products (SAP) system
- The Contractor shall issue new Personal Protective Equipment (PPE) to employees when it is no longer effective. All PPE and masks must be SABS approved
- The Contractor shall provide suitable facilities (e.g. lockers) for employees
- The Contractor must have representation in the Auxiliary Plant Maintenance meetings as well as in the Production Meeting
- The Contractor may be requested by the Employer to conduct plant modifications as per Engineering instructions or SOW's
- All work must be executed by qualified and trained personnel using the correct tools and equipment to ensure a reliable plant. Quality inspections to be done on all critical tasks with Eskom personal signing it off
- Some plant areas that the Contractor will be required to work in contains hazardous waste and chemicals for e.g. raw sewage, sulphuric acid, Chlorine gas, oil, etc. The Contractor's employees are expected to be qualified and trained to work in hazardous areas and must be equipped with the appropriate PPE
- All personnel working on the CW system must be trained and qualified to work in areas that contain asbestos and must be equipped with appropriate respirators
- All personnel working on the Fire Protection System will be required to have attended basic deluge system training and must be deemed to be competent in fire system maintenance
- All welding work must comply with 240-106628253 - Standard for Welding Requirements on Eskom Plant. Welding procedures and welding QCP's must be supplied to Eskom for approval prior to welding work commencing. All weld repairs must be 100% Non-Destructive Tested (NDT) and inspected by an Eskom Welding Inspector
- All final welds must be NDT as per 240-83539994 Standard for Non-Destructive Testing on Eskom Plant
- It should be noted that there are some plant areas that will require plastic welding. Welders executing plastic welding must have welder qualifications as per EN 13067, Plastics welding personnel — Qualification testing of welders — Thermoplastic welded assemblies **OR** Manufacturing, Engineering and Related Services Sector Education and Training Authority (MERSETA) accredited training

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- The minimum wage must be paid to all employees and will be audited from time to time. Only allowable deductions are allowed e.g. deductions for the provision of PPE will **not** be allowed

3.2.1 Maintenance Scope and Philosophy

The maintenance contract requires that the Auxiliary Plant Systems are maintained according to a defined maintenance programme developed by the Employer. With each and every system the planned maintenance activities are listed with periods at which stage the activity is to be carried out. The SOW will focus on a specific plant area and equipment. This programme is dynamic and the Contractor will be responsible for it being updated according to the Maintenance Strategy.

The Contractor will perform the following Mechanical maintenance according to Employer approved schedules.

3.2.1.1 Running Maintenance/ Inspections

Running maintenance/ inspections is seen as the weekly/daily walk downs that will be done by the Contractor. During these walk downs qualified and experienced artisans will do inspections while the plant is in operation. All defects or potential failures will be recorded in SAP as a base for recording. The Contractor will be responsible for documenting the inspections, completing the necessary paperwork and loading defects on the SAP system.

The defects will be listed and corrective actions will be planned according to the priority of the defects. The detailed planning of critical/major activities, together with QCPs and risk assessments will be done by the Contractor and approved by the Contract Supervisor. Where Permits to Work are required, the work will be planned with the Production Manager of Camden Power Station via the Auxiliary Plant Maintenance personnel.

3.2.1.2 Planned Maintenance

Planned maintenance schedules initiated by the Employer will be followed to prevent any potential breakdowns or failures of equipment. These Maintenance Schedules will be generated from the SAP PM system and consists of inspections at the following frequencies:

- Daily
- Weekly
- Monthly
- Quarterly
- Yearly
- As Required

3.2.1.3 Corrective Maintenance

Corrective Maintenance refers to all unpreventable and unforeseen plant failure occurrences and the replacement of damaged equipment.

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3.2.1.4 Condition Based Maintenance (CBM)

The purpose of the maintenance strategies and CBM is to enable the monitoring of the physical condition and potential failure modes of equipment. Plant Performance Department performs most of the Condition Based Monitoring.

The list of CBM work orders will be included in the above-mentioned list of planned maintenance schedules.

3.2.2 Quality Control Plans (QCP's), Safe Work Procedures and Job Observations

The Contractor will be required to develop and submit QCP's for the Employer's approval

QCP's with action plans, safe work procedures and job observations shall be produced at the request of the Employer.

QCP's must be signed and approved by the Quality Controller, respective System Engineer and Auxiliary Plant Maintenance Supervisor.

3.2.3 Works Management Process

Planning of Maintenance activities will be done on a daily basis between the Employer and the Contractor. The daily plan will include corrective and planned maintenance schedules.

When a particular task requires pre-planning, the Employer may request a program from the Contractor. The program to be submitted with all the activities specified in the scope of work, indicating at least the following:

- Timeline of each activity
- Working calendar (number of work hours per day, days per week)
- All known interfaces with other activities of the Employer or Others, including scaffolding, lagging, electrical and instrumentation work

Updating of the plan for the works will be done daily; more regular updating may be required. The Employer will be entitled to change the plan at any time as and when other tasks take precedence.

An activity for which a Corrective or Planned maintenance schedule has been issued, will only be recorded as complete when the SAP work order issued for this activity is submitted with all relevant details, signatures and returned to Works Management (WM) for SAP loading

The Employer has a planning system called SAP PM, which records all corrective maintenance identified and all planned maintenance schedules. All the Employer's documentation will be used in each and every activity performed on the respective plant with accurate information of the required actions undertaken to restore the system back to working condition. All PM's completed to be verified and approved by Auxiliary Plant Maintenance Supervisor. All man-hours, staff used, material used, corrective or planned actions taken must be recorded on the corrective maintenance (CM) or planned maintenance (PM) documentation which is forwarded to WM for recording.

Camden Power Station reserves the right to do quality checks at any time. It will be the philosophy of this contract that if a problem is identified while carrying out an inspection, a defect is raised to rectify the problem as corrective maintenance.

The Employer's planners will undertake all scheduling activities, corrective maintenance is catered for in the same way.

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This contract is for both planned (PM) and unplanned corrective maintenance (breakdowns) and stand-by personnel should be provided for such.

Response time for call-outs after hours (Monday until Friday), over weekends and all public holidays will be one (1) hour from the time the call has been received by the Contractor. Standby lists are to be given and updated at Electrical Operating Desk (EOD) via the Contracts Supervisor. Stand-by and call-out costs are included in the monthly contract amount.

This contract includes Permit to Work (PTW) requirements for outside Contractors e.g. new project work.

The Contractor will be required to create access for other partners for the Auxiliary Plant Systems e.g. removal and installation of motors.

The Contractor is required to submit a task plan to the Auxiliary Plant Maintenance Supervisor for each planned or breakdown activity, subject to approval by Production, planners or managers.

3.2.4 Spares Management

The Contractor will contribute to spares management by timeously providing detail of the spares required to the Contract Supervisor, conducting stores walk-down to identify zero stock levels/obsolete spares and cataloguing critical spares.

3.2.5 Experience

The following experienced and qualified skills will be required:

- Site-Manager
- Supervisors
- Quality inspectors
- Semi-skilled assistants
- Safety officer
- Site Admin
- Boiler makers
- Riggers
- Fork lift operator
- Mechanical artisans
- Alignment Technicians
- Fitter and Turners
- Welders
- Equipment operators (yellow plant)

Support Structure:

- Drivers (bus/taxi/bakkie)
- General workers

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NB: The Contractor will be responsible for compiling the scope, programme and resource allocation in the entire task given to them and to ensure that all equipment and tools needed to execute that task are available e.g. rigging equipment which includes slings, crawls, chain blocks and electric hoists (up to 5 tons). Machine tools like centre lathe tools for machining, milling machine, grinding machine and portable equipment like grinders drill bits sockets etc.

Contractor to ensure availability of mobile equipment and drivers on a full-time basis, example, telescopic handler, excavator, fork lift and mobile crane for execution of pipe work and working at heights.

Contractor to ensure that their employees are trained to operate above mentioned machines and mobile equipment. Basic rigging will be attended by all artisans since their plant requires rigging in most of the activities.

3.2.6 Plant Safety Regulations (PSR)

The Contractor shall do permit application and verify isolations in the plant from all sources of danger as described in the PSR and HV Regulations.

The Employer shall, on request from the Contractor isolate required plant from all sources of danger as described in the PSR and HV Regulations.

The Employer shall, on request make available a copy of the latest revision of the PSR and HV Regulations to the Contractor.

The Contractor shall conform to all rules and regulations applicable to PSR and HV Regulations and requirements and shall complete the Worker's Register prior to working on the plant.

The Contractor shall provide persons at all times who are authorised as a responsible person according to the PSR and HV Regulations respectively for accepting of Plant Permits. It is required that a minimum 50% of the qualified workforce to be authorised. These persons will be required to attend and pass a theoretical course as well as satisfy the examining committee that he is competent before being authorised. Similar authorisations of other Business Units will not be applicable. The RP's shall be authorised for all the Auxiliary Plant Systems listed in Section 2.1.

3.2.7 Drawings

All drawings detailing the Auxiliary Plant Systems applicable for this scope are available from the Camden Power Station Documentation Centre.

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3.2.8 Rigging Equipment

The Contractor will be responsible for the following:

- Provide rigging equipment and tools
- Ensure availability of lifting equipment at all times
- Provide module lifting equipment
- Ensure that all rigging equipment is operational and functional at all times
- Do monthly inspection on own lifting equipment
- Load test his own lifting and rigging equipment. (**NB.** Yearly load test on all Eskom lifting equipment will be done by a separate Contractor approved by the Employer)
- Repair or replace own defective lifting equipment

3.2.9 Alignment

The Contractor will be required to conduct pre-alignment and alignment of Auxiliary Plant System equipment

- Contractor to provide alignment equipment and tools (shims)
- Contractor to ensure alignment equipment is calibrated and available at all times
- Contractor to supply the Employer with alignment report/results after completion of work

3.3 Auxiliary Plant Systems Maintenance

The Contractor will perform maintenance according to Employer approved schedules.

The Contractor will be responsible for maintaining the Auxiliary Plant Systems to the standards specified by Eskom.

Maintaining will include:

- All pumps
- All pipes
- All valves including non-return valves (NRV's) and air release valves
- All gearboxes
- All tanks and vessels

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3.3.1 Pumps

All pumps in Auxiliary Plant Systems (as per section 3.1) will be maintained by the Contractor as per the Original Equipment Manufacturer's (OEM's) manual and the Maintenance Strategy of the respective plant.

The Contractor will be required to:

- Inspect and service pumps
- Conduct fault finding on all pumps to determine cause of recurring failures
- Remove and replace pumps for maintenance requirements
- Rebuild pumps when required by the Employer
- Do alignment or repairs as per condition monitoring findings

3.3.2 Auxiliary Plant Valves and Gearboxes

The Contractor will be required to maintain all the valves and gearboxes in the Auxiliary Plant Systems as per the OEM's manual and the Maintenance Strategy of the respective plant.

Furthermore, the Contractor will be required to:

- Inspect and rebuild valves
- Remove and replace valves
- Repair valves and gearboxes

3.3.3 Auxiliary Plant Pipework

The Contractor will be required to

- Inspect all Auxiliary Plant System pipework as per the Maintenance Strategy requirements
- Ensure all pipework in the Auxiliary Plant Systems will be inspected for wear and planned accordingly to avoid further deterioration of the pipes
- Repair or replace damaged pipework as required by isolating the line using valves and where applicable using Hot tapping and line stoppage techniques. See clause 3.3.3.1

3.3.3.1 Hot tapping and line stoppage techniques

- Hot tapping and line stoppage techniques (e.g. pipe clamping), shall be utilized on an as-needed basis to facilitate maintenance, and repairs on pressurized auxiliary pipelines without service interruption. These methods ensure minimal downtime while maintaining system integrity and operational continuity.

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3.3.4 Auxiliary Plant Tanks and Vessels:

The Contractor will be required to:

- Maintain all tanks and vessels in the Auxiliary Plant Systems as per the OEM's manual and the Maintenance Strategy of the respective plant.

4. Security Management

The Contractor applies for access permits (Contractor's permit) at the Security gate on the start date of the contract. The Contractor's personnel shall be required to be in possession of an access permit at all times.

In order to assist Protection Services with the issuing of permits and the identification of personnel on site, the successful Contractor is to supply a list of all personnel that the Contractor intends using on site, at least 72 hours prior to entry of the Security Area. This list must be delivered to Protection Services. The list identified with the Contractor's name is to contain the following information:

- Employee name
- Employee ID
- The Employer's Safety Coordinator's signature
- Auxiliary Plant Maintenance Manager's signature
- Copy of the first page of the ID book of every employee of the Contractor, photocopied to reduce the size to 65%

Access permits must be returned to Protection Services when the worker/s leave the site, either after completion of the services, or upon earlier termination of service of a worker during the contract period.

To speed up the process of gaining access to the site, the Contractor must compile detailed lists of all tools and equipment (including serial numbers where applicable) to be taken on site before arriving at the Power Station Security gate. An authorised copy of this list must be retained by the Contractor - to be used again when the tools and equipment are removed from site after the completion of the services.

Any additional tools or equipment brought to site, or any tools or equipment removed during the contract period must be reported to Protection Services and all lists amended likewise. Gate release permits will not be issued for the removal of any tools or equipment not specified on the tool list.

The Contractor's visitors and all personnel shall conform at all times to the security arrangements in force at the site. Application forms for visitors must be filled in by the Contractor's Site Manager and approved by the Auxiliary Plant Maintenance Manager, one day before the visit and submitted to the Employer's Protection Services office. Visitors will not be allowed on site if the necessary forms are not in the possession of the security staff.

The Chief of Protection Services may, with valid cause, remove any, of the Contractor's personnel from the site, either temporarily, or permanently. He may deny access to the site to any person whom, in the opinion of the said Chief of Protection Services, constitutes a security risk.

No unauthorised vehicles will be allowed on site. Only Contractor's vehicles with displayed Contract Vehicle Permits disks will be allowed on site. Contract vehicle applications should be directed to the Auxiliary Plant Maintenance Manager.

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The Contractor will be restricted to the working areas associated with his place of work. The Contractor is forbidden to enter any other areas, and must ensure that his employees abide by these regulations.

No recruiting of casual labour may be done on the Employer's premises, including the area outside the Power Station Security Gate.

5. Transport

The Contractor will be responsible for own transport on site as well as for standby purposes. No passengers will be allowed on the back of a Light Duty Vehicle (LDV or bakkie) even if fitted with a canopy.

6. Health, Safety and Environmental Requirements

6.1 General

Compliance with all current legislation and Eskom policies and directives is mandatory. The following requirements will be adhered to among others:

- OHS Act
- Environmental regulations

The Contractor will abide by the SHE requirements of Camden Power Station.

The Contractor shall ensure cleaning of work areas and disposal of any waste materials generated in execution of the scope.

The Contractor must ensure that all his personnel attend a Health and Safety Induction Course prior to starting with their work. The Induction Course can, on request be provided by the Employer and will be valid for the duration of the services.

Safety Risk Management has the right and authority to visit and inspect the Contractor's workplace or site establishment to ensure that tools, machinery and equipment comply with the minimum safety requirements.

The Auxiliary Plant Maintenance Manager shall be entitled to instruct the Contractor to stop work, without penalty to the Employer, where the Contractor's personnel fail to conform to safety standards or contravene health and safety regulations. The Auxiliary Plant Maintenance Manager is entitled to call the Contractor to discipline his employees and to enforce disciplinary action. The Contractor will be required to submit a report to the Auxiliary Plant Maintenance Manager. The Contractor shall implement additional health and safety precautions where necessary.

The Contractor will provide all his personnel with the required PPE for the duration of the contract.

Risk Assessments, Pre-Job Briefs, Post-Job Briefs and Job Observations will be conducted for all jobs.

All Construction Regulation safety requirements should also be adhered to including Safety and Fall Protection Plan

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6.2 Pandemic Control Management

The Contractor will be required to:

- Ensure there are resources provided / allocated in case of a pandemic outbreak
- Adhere to Eskom processes and guidelines with regards to pandemic management

6.3 Fire Precautions

- Any tampering with the Employer's first aid equipment is strictly forbidden
- All exit doors, fire escape routes, walkways, stairways, stair landings and access to electrical distribution boards must be kept free of obstruction, and not be used for work or storage at any time. Firefighting equipment must remain accessible at all times
- In case of a fire, report the location and extent of the fire to the EOD at extension 3471
- Take the necessary action to safe guard the area to prevent injury and spreading of the fire

6.4 Reporting of Accidents

The Employer follows an accident prevention policy that includes the investigation of all accidents involving personnel and property. This is done with the intention of introducing control measures to prevent a recurrence of the same incidents. The Contractor is expected to fully co-operate to achieve this objective. The Auxiliary Plant Maintenance Manager must be informed immediately of any incidents and any damage to property or equipment must be reported within 12 hours.

NB. This report does not relieve the Contractor of his legal obligation to report certain incidents to the Department of Labour, or to keep records in terms of the Occupational Health and Safety Act and the Compensation for Occupational Injuries and Diseases Act.

6.5 Barricading and Screens

The Contractor will provide and install barricades and warning devices to ensure that equipment and persons are not exposed to danger or to prevent access to dangerous areas.

All welding, flame cutting and grinding work shall be properly screened to protect persons from any injury.

All gratings shall be covered with adequate protective screening when-welding or flame cutting in the vicinity.

7. Quality Requirements

The Contractor will comply with the Employer's Quality Requirements.

Quality Requirements include visual inspection by the Employer, who will be entitled to witness progress of work at any time. The Employer shall also have the right to stop work and re-instruct the Contractor, who will comply with the requests.

The Employer may by arrangement, inspect completed work. If in the opinion of the Employer, the work does not comply with the quality requirements expected from the Contractor, the Employer shall instruct the Contractor to rectify the faults. The Contractor will comply with the instructions.

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8. Personnel Qualifications

The Contractor's Site Manager shall ensure that only qualified and experienced artisans be allowed to work on plant which may cause production losses or safety risks. The Auxiliary Plant Maintenance Manager shall be entitled to verify the qualifications of any artisan.

9. Services and Other Requirements Provided by the Employer

This section describes what the Employer is to supply specifically for the purpose of the works. The Contractor is to supply everything else required to execute the works.

9.1 Spares, Tools and Consumables

Unless where otherwise indicated all spares will be supplied free by the Employer.

The Contractor will be responsible for all free issue material control functions, including but not limited to receipt, checking, offloading, taking temporary possession and proper storage of all materials, as well as returning any unused or refurbishable items to the Supervisor.

The Contractor must supply all tools and equipment used to maintain the plant. The Employer will supply tools in exceptional cases with the authorisation of the Workshop Supervisor or Auxiliary Plant Maintenance Manager.

The Contractor to provide own stationery, rags, printing equipment and computers

The Contractor to provide own PPE (as per employer requirements) to all employees as required. All PPE and masks must be SABS approved.

The Contractor to provide own consumables (including rags).

The Contractor shall provide suitable facilities (e.g. lockers) for employees.

9.2 Use of the Employer's Equipment

If the Contractor requires use of any of the Employer's Equipment, including compressed air, electricity, water supply and cranes, it must be requested via the Supervisor.

The Contractor will be responsible for the repair, replacement or correction as necessary of any and all items of plant and /or materials supplied by the Employer which are damaged and /or lost whilst in the Contractor's custody and control.

The Contractor Site Manager must ensure that any one of his employees or Subcontractors, operating hoist equipment belonging to the Employer, is authorised by the Employer.

9.3 Accommodation and Catering

The Contractor will be responsibility for the provision of accommodation to his personnel - the Employer does not provide accommodation.

The Contractor or any of his employees or subcontractors will be allowed to use the Employer's dining facilities.

The Contractor or any of his employees or subcontractors may also buy take away meals from the fast foods outlet on Site.

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9.4 Office and Toilet Facilities

The Employer will provide the Contractor access to office and toilet facilities.

9.5 Medical Facilities

The Contractor provides a First Aid service to his employees and subcontractors. In the case where these prove to be inadequate, as in the event of a serious injury, the Employer's Medical Centre and facilities will be available.

Outside the Employer's office hours, the Employer's First Aid Services will only be available for serious injuries and life threatening situations.

The Employer shall be entitled, however, to recover the costs incurred, in the use of the above Employer's facilities, from the Contractor.

9.6 Refuse Disposal

The Employer will provide and empty special colour coded bins for refuse disposal. The Contractor will be responsible for refuse bins for his own site.

The Contractor ensures that all workers under his control strictly adhere to the correct use of refuse bins.

For the full duration of the services, the Contractor is responsible to keep the work area clean of any rubble and to place all refuse into the bins provided.

10. Acceptance

This document has been seen and accepted by:

Name	Function
Jeffrey Nkuna	Snr Technician Maintenance
Patrick Shange	Snr Supervisor Tech Maintenance

11. Revisions

Date	Rev.	Compiler	Remarks
December 2021	1	N. Naidu	Original Issue
March 2025	2	N. Naidu	Scope Revision

12. Development Team

- Bongani Mashaba
- Sabelo Mthethwa
- Sizwe Mabele

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13. Acknowledgements

N/A

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