

	Specification	Kusile Power Station
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Title: **Kusile Power Station Boiler
Hydraulic Systems C&I
Maintenance and Refurbishment
Service Scope of Work**

Document Identifier: **KUS-20260137**

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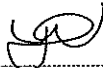
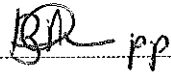
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1. Introduction

Kusile Power Station management intends to establish a partnership with a suitably qualified; experienced and well-established service provider for Hydraulics Skid Maintenance Service Including the calibration of Monostats and provision of calibration certificates and system reports on all operating units on **"As and when required "for the period of 5 years.**

This document describes the details of the requirements, standards, scope of work and the terms and conditions of the maintenance partnership.

2. Supporting Clauses

2.1 Scope

2.1.1 Purpose

The purpose of this document is to define the scope of work for the C&I maintenance and refurbishment services of the Boiler Hydraulic Systems, including the calibration of Monostats at Kusile Power Station Unit 1-6. The scope covers both outage and operational unit maintenance activities for the following boiler systems:

Boiler Safety Devices & Panel:

- a) HP Bypass Monostats Devices (LBA12/13CP301–303)
- b) HP Bypass Monostats Panel (LBA12/13GH001)
- c) Hot Reheat Monostats Devices (LBB12/13CP301–303)
- d) Hot Reheat Monostats Panel (LBB12/13GH001)
- e) Auxiliary Monostats Devices (LBG12/13CP301–303)
- f) Auxiliary Steam Monostats Panel (LBG12/13GH001)

HP Bypass and Hot Reheat Hydraulic Skids & Panels:

- a) Left Hand Side Hydraulic Unit and Panel (LBY31GH001)
- b) Right Hand Side Hydraulic Unit and Panel (LBY32GH001)

Auxiliary Steam Hydraulic Skids & Panels:

- a) Hydraulic Unit and Panel (LBY40GH001)
- b) Hydraulic Unit and Panel (LBG11/12GH001)

Steam Reducing Hydraulic Skid & Panels:

- a) Hydraulic Unit and Panel (HAY61GH001)

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- b) Hydraulic Unit and Panel (HAY62GH001)

Walland and Tuxhorn Hydraulic Valves:

- a) LBF31-34 AA 601
- b) LBB31-34 AA 601
- c) LAE21-24 AA 001
- d) LAE21-24 AA 201
- e) LAF51/52 AA 001
- f) LAF51/52 AA 201
- g) LBG61/62 AA 001
- h) LAF71/72 AA 001
- i) LAF71/72 AA 201
- j) LBC41/42 AA 001
- k) LCE21/22 AA 001
- l) LCE21/22 AA 201
- m) LBA41/42 AA 001
- n) HAG61/62 AA 001
- o) HAG61/62 AA 201

Milling Plant Hydraulic System:

- a) HFC12 GH001
- b) HFC22 GH001
- c) HFC32 GH001
- d) HFC42 GH001
- e) HFC52 GH001
- f) HFC12 GH002
- g) HFC22 GH002
- h) HFC32 GH002
- i) HFC42 GH002
- j) HFC52 GH002

This contract shall exclude the mechanical SOW on the systems mentioned above, however, the C&I contractor shall work hand in hand with the mechanical contractor to solve defects when necessary to ensure the short turnaround time of repairs on the systems ensuring optimal performance of the plant.

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The specified C&I maintenance and refurbishment activities are critical to supporting the station's ability to operate at maximum performance and reliability. It is therefore essential that the appointed and suitably qualified service provider fully aligns its organisation with the scope requirements, maintenance activities, and processes outlined in this document.

2.1.2 Applicability

This document is applicable to Kusile Power Station Generation.

2.1.3 Effective date

This document is effective from the date of authorisation (last signature) until its succeeding document has been authorised.

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

- [1] GGR 0992: Plant Safety Regulations
- [2] 240-56227443: Requirements for Control and Power cable for Power Stations Standard
- [3] 240-56355754: Field Equipment Installation Standard
- [4] 240-56355815: Control & Instrumentation Field Enclosures and Cable Termination Standard
- [5] 240-132042241: Power Plant Controls & Instrumentation; Control Systems; Distributed Control Systems (DCS); Part 1: General Standard
- [6] KUS-20250341 - Kusile Power Station Boiler Steam Hydraulic Systems Maintenance Strategy
- [7] B114115_01_06_ID38_00001_AA System Description HP Bypass Hydraulic System
- [8] B114115_01_99_IB13_00017_AC Process Description HP-Bypass and RH Safety Valves
- [9] B114103-01-06-GM03-00007-AE - Operational Technical Documentation Hydraulic Station for RH Safety Valve
- [10] B114116-01-06-IB01-00001-AK – HP Bypass System/ RH Safety Valves
- [11] B114116-01-06-IB01-00002-AF – Hydraulic Schema HP Steam Bypass System
- [12] B114103-01-06-YI01-00008 – LBY Layout of HP Steam Bypass System
- [13] B114103-01-06-ID38-00001 – System Description Electrical, Control & Instrumentation for Hydraulic Unit
- [14] B114114-01-06-YI01-00007 – Steam Pressure Check Devices
- [15] B114114-01-06-YI01-00009 – Steam Pressure Check Devices
- [16] B114114-01-06-GM03-00005 - Operational Technical Documentation Steam Pressure Check Device for RH Safety Valve

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- [17] B114109-76-51-GM03-00024 – HAY - Water Vessel Discharge Valves Hydraulic Unit Control System 1 0HAY62 GH0011
- [18] 240-167722527 Kusile Power Station HP Bypass Hot Re-Heat Safety Valve System Commissioning
- [19] B114103-35-99-GM03-00030-00 – Pulverizer Plant Hydraulic Unit – General
- [20] B114116-35-99-ID32-00001-00 – Operating Manual Documentation Coal Mill System
- [21] B114109-76-51-GM03-00014-00 – Control Cabinet Hydraulic Unit Coal Mill
- [22] B114109-76-51-GM03-00015-00 – Control Cabinet Hydraulic Unit Coal Mill

2.2.2 Informative

- [1] ISO 9001: Quality Management Systems
- [2] ISO 14001: Environmental management System
- [3] Act No 102 of 1980: National Key Points Act, 1980
- [4] Act No 85 of 1993: Occupational Health and Safety Act & Regulations, 1993.
- [5] KUS-20230331- Kusile Power Station Quality Control- Work Instruction

2.3 Definitions

2.3.1 Availability: Period when a system is operating satisfactory when used under specified conditions.

2.3.2 Contractor: Service provider contracted to provide a specific service to Eskom, Kusile Power Station.

2.3.3 Employer: Eskom, or Eskom Kusile Power Station or representative

2.4 Abbreviations

Abbreviation	Explanation
Abbreviation	Explanation
AP:	Appointed Person
C&I:	Control & Instrumentation
CM:	Corrective Maintenance
FFFR:	Fossil Fuel Firing Regulations
LAR	Limited Access Register
NEC:	New Engineering Contract

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Abbreviation	Explanation
OEM:	Original Equipment Manufacturer
OHS Act:	Occupational Health and Safety Act
PCLF:	Planned Capability Loss Factor
PPE:	Personal Protective Equipment
PM:	Plant Maintenance
PSR:	Plant Safety Regulations
PTW:	Permit to Work
QC:	Quality Control
QCP:	Quality Control Plan
QMP:	Quality Management Programme
RP:	Responsible Person
SP:	Skilled Person
SAP:	Systems, Applications, Products (Plant Maintenance, Procurement, Finance and Materials Management) integrated maintenance management system.
SHE:	Safety, Health, Environment
SOW:	Scope of Work
UCF:	Unit Capability Factor
UCLF:	Unplanned Capability Loss Factor
URS:	User Requirement Specification
RTS	Return to Service

2.5 Roles and Responsibilities

All parties concerned in this SOW "shall act as stated in this contract and in a spirit of mutual trust and cooperation"

2.5.1 Employer

- The *Employer* shall provide induction and ensure compliance before commencement of work.
- The *Employer* shall provide a conducive workplace for the *Contractor* during the period of work.

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- c) The *Employer* shall provide required spares needed by the *Contractor* which are not listed on the spares list (Bill of material).
- d) The *Employer* shall provide sectional Managing Supervisors for all *Contractor* employees to supervise and monitor adherence to SOW.
- e) The *Employer* shall provide training for PSR and FFFR.

2.5.2 Contractor

- a) All *Contractor* employees shall comply with Eskom's policies and site regulations, adherence to Eskom's Life Saving Rules.
- b) The successful *Contractor* shall utilise/provide skilled and suitably qualified staff (in line with Eskom Job specifications) with current experience in the Eskom power plants.
- c) All staff brought onto site in connection with this SOW should be able to fluently speak, understand and write in English.
- d) Proof of qualification is to be supplied on request by the Employer.
- e) The *Contractor* shall ensure that all staff being brought to Kusile Power Station site has a valid fitness certificate based on the specified plant man-job specification.
- f) Provide daily supervision of all related plant through trained and competent personnel to ensure that inspections & work activities are conducted daily.
- g) The *Contractor* must also provide knowledge on other plant falling within his field of expertise.
- h) The *Contractor* must ensure daily housekeeping, adherence to safety requirements and that any deviation is reported to the Employer on a required basis.
- i) Ensure logging and marking of all *Contractor* assets used during the contract period
- j) The *Contractor* shall be held responsible or held liable for any defects arising from poor workmanship performed by their staff.

2.6 Process for Monitoring

This specification shall be reviewed annually from date of initial authorisation or when necessary to conduct assessment on the following:

KPI's details as follows:

- a) Floor, not acceptable performance
- b) Kick, meeting some expectations
- c) Target, meeting expectations
- d) Stretch, exceeding expectation
- e) Ceiling, exceptional performance

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Service provider shall maintain a quarterly target of 3, failure to which Employer to issue early warning to the service provider for the service provider to mitigate. Subsequent to the early warning being issued and the target is still at level 2 or less the Employer shall send the contract for review and termination process to resume.

Key Performance Indicators will be evaluated on a quarterly basis.

	Performance as per SOW	Response to Emergency call out	Calibration of Monostats and provision of calibration certificates and system reports	Conduct C&I Maintenance investigation and recommend possible improvements	PSR & FFR Awareness training and Authorisation
Floor, Not Acceptable Performance	1				
Kick, Meeting Some Expectations		2			
Target, Meeting Expectations			3		
Stretch, Exceeding Expectation				4	
Ceiling, Exceptional Performance					5

Related/Supporting Documents

- A daily attendance registers for all *Contractor* employees to be signed by all employees and maintained in a file.
- All drawings or documents developed during the contract period remain the property of Eskom
- Contractor* to provide a daily site service sheet to log daily activities.

3. Contract Scope of Work

System components shall be indicated on the drawing provided by Employer to the Contractor.
The drawings provided shall not be altered without the approval of the Employer.

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The drawings remain the assets of the Employer and shall not be copied or shared without the consent of the Employer.

3.1 Boiler Safety Devices & Panel

The maintenance of the boiler safety devices and panel entail maintenance on operational units as well as outages. Kusile Power Station is in a process of transition from the obsolete Hydac pressure switches to Pinter mechanical pressure switches; the appointed contractor shall be required to support the modification project.

3.1.1 Pressure Switches Modification Project

- a) The contractor shall support the station with the assembly of the new pressure switches, including fitting the appropriate fittings and pressure switches for units where the project has not yet been implemented.
- b) The contractor shall calibrate the pressure switches to the required setpoints, switch-back pressure, and voltage limits in accordance with the Employer's procedures.
- c) The contractor shall install the assembled pressure switches and perform calibration to comply with statutory and Eskom commissioning requirements, including certification of the pressure switches.
- d) The contractor shall complete the C&I wiring of the panel and any additional wiring required for the safety device panels.
- e) The contractor shall ensure that each installed monostat can be isolated when necessary and that the proximity switches are fully functional.
- f) Eskom reserves the right to procure the spare parts that will be used by the contractor for the project.

3.1.2 Outage and Maintenance Scope

- a) The contractor shall execute the scope of work on the pressure switches and panels in accordance with the Engineering SOW.
- b) The contractor shall repair any defects identified and recorded through SAP notifications.
- c) The contractor shall be responsible for overhaul of the panels during outages.
- d) The contractor shall replace pressure switches and associated fittings where necessary.
- e) The contractor shall perform calibration and functional testing in line with Eskom and statutory requirements.
- f) Check the limit switches tightness and alignment to the target(s)
- g) The contractor shall carry out commissioning of the pressure switches and panels.
- h) The contractor shall ensure that the pressure switches and panels are in good working condition prior to the unit being RTS.
- i) The contractor shall commission the pressure switches and panels during outages or opportunity maintenance.

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3.1.3 The appointed contractor shall carry out the following PMs

- a) The contractor shall perform bi-weekly visual inspections of the pressure switch panels to identify any steam leaks at fittings and in the surrounding area. Any abnormalities must be reported to the relevant stakeholders.
- b) The contractor shall protect instruments from steam and/or water leaks by covering the affected pressure switch with cloth, lagging, cladding or plastic where necessary.
- c) The contractor shall ensure the pressure switch panels are covered with plastic to prevent steam leaks from spraying onto the switches.
- d) The contractor shall check the integrity of field panel locks and seals on a weekly basis.
- e) The contractor shall verify the tightness of cable glands weekly.
- f) The contractor shall report on the availability status of the HP Bypass, Hot Reheat, and Auxiliary pressure switches on a weekly basis.
- g) The contractor shall conduct visual inspections on the panels for dust ingress and clean if there is dust accumulation. Check the condition of the dust guard trim and cable gland if any dust noted.

Equipment Calibration Certificates:

- a) Contractor to provide system maintenance pumps calibrated by a SANS accredited service provider
- b) Contractor to provide calibrated gauges calibrated by a SANS accredited service provider
- c) The gauges calibration certificate shall be required for verification as and when required.
- d) C&I Maintenance shall organise with Boiler Engineering to issue the system test certificate
- e) System test Calibration certificate issued shall be valid for a period of 12months.

3.2 HP Bypass and Hot Reheat Hydraulic Skids and Panels

This scope includes the C&I maintenance of instrumentation associated with the hydraulic skids and skid cabinets. The appointed contractor shall work in close coordination with the hydraulic mechanical contractor to ensure the proper functioning and overall health of the skid control systems.

3.2.1 Outages and Maintenance Scope

- a) The contractor shall replace relays and other critical instruments in the panels as per the engineering scope of work.
- b) The contractor shall assist with fault finding using specialised equipment on the panels when the unit is offload for diagnosis purposes.
- c) The contractor shall assist engineering in the compilation of SOW for outages to replace instruments close to failure and spares required.

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- d) The contractor shall loop test the signals from each component and ensure they indicate on DCS.
- e) Function test relays and ensure each relay is functioning prior effectively.
- f) Function test panel fuse and control cards and replace if damaged.
- g) Check for loose connections and tighten them to prevent wire break signals.
- h) Clean the cabinets of all dust ingress and inspect the dust guard trim and cable glands of damages.
- i) The contractor shall commissioning the skids and panels during outages or opportunity maintenance.

3.2.2 The appointed contractor shall carry out the following PMs

- a) Clean the cabinets of all dust ingress and inspect the dust guard trim and cable glands of damages on a weekly basis.
- b) Check for loose connections and tighten them to prevent wire break signals on weekly basis.
- c) Check the cabinets for dust ingress and inspect dust guard trim and cable glands for damages or looseness on a weekly basis.
- d) Check the signal cables physical condition for heat damage on a weekly basis.
- e) Check the integrity of field panel locks and seals on a weekly basis.

3.3 Auxiliary Steam Hydraulic Skids & Panels

This scope includes the C&I maintenance of instrumentation associated with the hydraulic skids and skid cabinets. The appointed contractor shall work in close coordination with the hydraulic mechanical contractor to ensure the proper functioning and overall health of the skid control systems.

3.3.1 Outages and Maintenance Scope

- a) The contractor shall replace relays and other critical instruments in the panels as per the engineering scope of work.
- b) The contractor shall assist with fault finding using specialised equipment on the panels when the unit is offload for diagnosis purposes.
- c) The contractor shall assist engineering in the compilation of SOW for outages to replace instruments close to failure and spares required.
- d) The contractor shall loop test the signals from each component and ensure they indicate on DCS.
- e) Function test relays and ensure each relay is functioning prior effectively.
- f) Function test panel fuse and control cards and replace if damaged.
- g) Check for loose connections and tighten them to prevent wire break signals.

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- h) Clean the cabinets of all dust ingress and inspect the dust guard trim and cable glands of damages.
- i) The contractor shall commission the skids and panels during outages or opportunity maintenance.

3.3.2 The appointed contractor shall carry out the following PMs

- a) Clean the cabinets of all dust ingress and inspect the dust guard trim and cable glands of damages on a weekly basis.
- b) Check for loose connections and tighten them to prevent wire break signals on weekly basis.
- c) Check the cabinets for dust ingress and inspect dust guard trim and cable glands for damages or looseness on a weekly basis.
- d) Check the signal cables physical condition for heat damage on a weekly basis.
- e) Check the integrity of field panel locks and seals on a weekly basis.

3.4 Steam Reducing Hydraulic Skid & Panels

This scope includes the C&I maintenance of instrumentation associated with the hydraulic skids and skid cabinets. The appointed contractor shall work in close coordination with the hydraulic mechanical contractor to ensure the proper functioning and overall health of the skid control systems.

3.4.1 Outages and Maintenance Scope

- a) The contractor shall replace relays and other critical instruments in the panels as per the engineering scope of work.
- b) The contractor shall assist with fault finding using specialised equipment on the panels when the unit is offload for diagnosis purposes.
- c) The contractor shall assist engineering in the compilation of SOW for outages to replace instruments close to failure and spares required.
- d) The contractor shall loop test the signals from each component and ensure they indicate on DCS.
- e) Function test relays and ensure each relay is functioning prior effectively.
- f) Function test panel fuse and control cards and replace if damaged.
- g) Check for loose connections and tighten them to prevent wire break signals.
- h) Clean the cabinets of all dust ingress and inspect the dust guard trim and cable glands of damages.
- i) The contractor shall commission the skids and panels during outages or opportunity maintenance.

3.4.2 The appointed contractor shall carry out the following PMs

- a) Clean the cabinets of all dust ingress and inspect the dust guard trim and cable glands of damages on a weekly basis.

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- b) Check for loose connections and tighten them to prevent wire break signals on weekly basis.
- c) Check the cabinets for dust ingress and inspect dust guard trim and cable glands for damages or looseness on a weekly basis.
- d) Check the signal cables physical condition for heat damage on a weekly basis.
- e) Check the integrity of field panel locks and seals on a weekly basis.

3.5 Walland and Tuxhorn Hydraulic Valves Scope

The scope on the hydraulic valves includes all C&I activities on an outage and maintenance basis, the appointed contractor shall work hand in hand with the mechanical contractor on the valves to ensure the valves are healthy and operating optimally.

3.5.1 Outages and Maintenance Scope

- a) The contractor shall be responsible for removal of cabling and proximity switches and positioners during outages on the hydraulic valves to ensure no damage to the instrument when the mechanical scope is being carried out.
- b) The contractor shall be responsible for putting back the cabling, proximity switches and positioners during commissioning.
- c) The contractor shall be responsible for stroke checking of the hydraulic valves with the mechanical contractor and shall ensure the valve is sealing. The C&I contractor shall work hand in hand with the mechanical contractor in the stroke checking to ensure the valves are in a healthy condition.
- d) The contractor shall conduct functional tests on the balluffs during outages.
- e) Replace the faulty positioners and perform function testing
- f) Replace the faulty limit switches and perform function testing
- g) Ensure the replacement of the Balluf positioner with a correct size
- h) The mechanical zero percent position shall be configured electronically two percent to prevent the valves from hunting.
- i) Loop test the signals from each component and ensure they indicate on DCS
- j) Assist during commissioning of the contracted plant.

3.5.2 The appointed contractor shall carry out the following PMs

- a) Visual inspection of the valve's positioners, balluffs and proximity switches on a monthly basis.
- b) Check the signal cables physical condition for heat damage on monthly basis.

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3.6 Milling Plant Hydraulic System Scope

3.6.1 Outages and Maintenance Scope

- a) The service provider must provide calibration certificates for the instruments and tools to be used (i.e. Multimeters, calibration pumps and gauges).
- b) Verification and calibration of proportional valves control cards for Counter pressure and Grinding pressure.
- c) Verification and calibration of hydraulic cylinders LVDTs.
- d) Verification and calibration of hydraulic tank level transmitters.
- e) Maintenance of hydraulic tank instruments, Pressures switches, pressure transmitters, temperature transmitters.
- f) Close out defects using approved QCPs.
- g) Calibration and service of Mills Hydraulic C&I cards

3.6.2 The appointed contractor shall carry out the following PMs

N/A

3.7 Work Preparation and Work Management

- a) Adhere to work management system SAP PM.
- b) Adhere to Eskom plant safety regulations (PSR).
- c) Risk assessment shall be done and documented/filed for each task.
- d) Job observation shall be done on agreed frequencies.
- e) All documentation required to complete work shall be referenced and filed for future reference (Test results, reports, drawings etc.) All documentation to be completed and filed (test sheets, test results, technical reports, drawings etc.)
- f) Ensure compliance to PSR before any work commence.
- g) Attend various departmental meetings. (Safety, Maintenance, Commissioning etc.)
- h) The *Contractor* must identify all potential hazardous tasks in the Works Information and prepare safe working procedures to issue to his staff before any work shall start.
- i) The *Contractor* must provide proof that Toolbox talks have been held.
- j) Perform toolbox talks, discuss, and fill risk assessments, ensure you're in possession of the correct drawings, correct check sheet, correct work procedure, correct QCP's and you're at the correct plant.

3.8 Contractor Provisions

- a) The *Contractor* shall provide necessary spares as and when required and execute all work necessary
- b) The *Contractor* shall provide stepladders and all relevant equipment where necessary.

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- c) The *Contractor* shall continuously provide all relevant PPE (Arc flash, Safety Harness, etc)
- d) The *Contractor* shall provide calibrated measuring and test equipment
- e) The *Contractor* shall provide the HP bypass and reheat safety valves calibration certificates and must be accompanied by a SANS accredited certificate valid for 12 months for each instrument attended.
- f) All *contractor* equipment and tools purchased for this LSA shall remain ESKOM property at the end of the contract
- g) All Works shall comply with professional engineering practice and standards, including design for the prevailing Safety, Health & environmental conditions

3.9 Management and Reporting

- a) The *Contractor* shall be responsible or held liable for any defects arising from maintenance/operational faults within twenty-four hours (24 hrs) after an intervention, provided that the equipment has been placed into service.
- b) The type of reports, level of detail and frequency of reporting shall be mutually agreed by the Employer and the *Contractor*. These may change from time to time on request by the Employer.
- c) The *Contractor* to be represented at any ad-hoc meetings that may arise to address any production or safety related matters.
- d) Liaison meetings shall be held between the Employer's representative or his/her delegate and the *Contractor's* representative or his/her delegate monthly or when necessary to discuss any technical details, or concerns.
- e) All Instruments removed from the plant belong to Eskom and shall not be removed off-site by the *Contractor*.

3.10 Quality and Documentation Control

- a) The *Contractor* shall ensure that all measuring and test equipment provided is calibrated at all times & proof thereof must be readily available.
- b) The *Contractor* shall adhere to all 'Quality References' and 'Standards' applicable to this SOW.
- c) The *Contractor* shall utilise the Employer's quality documentation management system and processes.
- d) The *Contractor* shall comply with QM58, 240-105658000 Supplier Quality Management: Specification Rev 2.
 - i. Refer to o Appendix A for Category 2, 240 – 12248652 Supplier Quality Management List of Tender Returnable Documents Rev 2Acceptance
 - ii. QCP document standard. KUS-20230331- Kusile Power Station Quality Control- Work Instruction

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4. Acceptance

This document has been seen and accepted by:

Name	Designation
Sithokozile Hlongwa	Engineering Group Manager
Siyakudumisa Mtsweni	Boiler Engineering Manager
Musa Ngwane	Boiler Chief Engineer
George Mthimkhulu	Senior Engineer
Vusi Skosana	System Engineer
Marakeng Madigoe	C&I Senior Technical Supervisor
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5. Revisions

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