

	Specification	Kusile Power Station
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Maintenance Services**

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1. Introduction

Kusile Power Station Management has decided to outsource the Hydraulics Maintenance Services to a suitably qualified, experienced and well-established Contractor. This document describes the detail of the applicable plant areas, standards, quality, requirements and specifications.

2. Supporting Clauses

2.1 Scope

2.1.1 Purpose

The purpose of this document is to define the specified Hydraulics Maintenance Services Scope of work activities requirements for Kusile Power Station. It is imperative that the successful and suitably qualified Contractor aligns his/her organisation fully to the Hydraulics Maintenance Services activities and processes laid down in this document.

2.1.2 Applicability

This document shall apply to Kusile Power Station only.

2.1.3 Effective date

The effective date of this document is the date of authorisation.

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] ISO 9001 Quality Management Systems
- [2] Occupational Health and Safety Act and Regulations (85 of 1993)
- [3] 36-681: Plant Safety Regulations
- [4] SANS 347: Categorisation and Conformity Assessment Criteria for all Pressure Equipment
- [5] 240-69258336: Pressure Relieving Safety Devices Standard
- [6] 240-97020108: Kusile Maintenance User Requirement Specification
- [7] 32-726: SHE Requirements for Eskom Commercial Process

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2.2.2 Informative

[8] National Key Points Act (102 of 1980)

[9] Kusile Power Station Emergency Preparedness and Response (237-19-SRM-PC)

[10] Process Calibration Equipment Standard (240-66355535)

2.3 Definitions

Contractor: Contractor contracted for supplying specific service to Eskom, Kusile Power Station

Employer: Eskom, or Eskom Kusile Power Station

Service Manager: The Employer's representative in regard of the agreement (contract)

Contract Manager: The Contractor's representative in regard of the agreement (contract)

2.4 Abbreviations

Abbreviation	Explanation
AIA	Approved Inspection Authority
BS	British Standard
BU	Business Unit
I.T.O.	In Terms Of
OEM	Original Equipment Manufacturer
OH&SA	Occupational Health and Safety Act
PCLF	Planned Capability Loss Factor
PM	Plant Maintenance
PPE	Personal Protective Equipment
PS	Power Station
PSR	Plant Safety Regulations
PTW	Permit to Work
QA	Quality Assurance
QC	Quality Control
QCP	Quality Control Plan
QMP	Quality Management Programme
RP	Responsible Person
SANS	South African National Standards
SAP PM	SAP Plant Maintenance
SAP	Systems, Applications, Products
SHE	Safety, Health, Environment
SOW	Scope of Work
UCF	Unit Capability Factor
UCLF	Unplanned Capability Loss Factor

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2.5 Roles and Responsibilities

- a) The Employer, the Contractor and the Service Manager shall act as stated in this contract and in a spirit of mutual trust and co-operation.
- b) The Employer provides items which he is to provide as stated in the Service Information.
- c) The Employer may replace the Service Manager after he has notified the Contractor of the name of the replacement.
- d) The Service Manager may give an instruction to the Contractor which changes the Service Information.
- e) The Contractor Provides the Service in accordance with the Service Information.
- f) The Contractor obeys an instruction which is in accordance with this contract and is given to him by the Service Manager.
- g) Further roles and responsibilities can be obtained from the NEC3 TSC book.

2.6 Process for Monitoring

The contract between the Employer and the Contractor will be monitored using the set KPI's. The contract files and finances will be audited on a quarterly basis.

2.7 Related/Supporting Documents

- a) New Engineering Contract 3 Term Services Contract Book

3. Document Content

3.1 General Requirements

- a) The Employer and Contractor in this SOW is committed towards the following:
 - i. Continuous improvement,
 - ii. Retention of critical skills,
 - iii. Continuous cost reduction,
 - iv. Health & Environment Safety.
- b) The following complementary services to improve plant and labour performance can be referred as follows:
 - i. Procedure and documentation writing,
 - ii. Design services,
 - iii. Technical advice,
- c) The Contractor shall report all incidents as well as any threat to health or safety of which they become aware of on the site to the Employer.
- d) The contract entered into with the Contractor is non-exclusive and work against this contract can only be performed upon receipt of a task order.
- e) All works will be subject to anytime inspection from the Employer.

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- f) The Employer will schedule all Hydraulics Maintenance Services.
- g) This contract is for corrective and preventative maintenance.
- h) The Contractor shall complete the history data sheet for all work orders executed.
- i) The Contractor is to ensure that any service rendered does not interfere with the Employer's scheduled work and should align himself with the Employer's work control process.
- j) Should the Employer become aware of any changes to the activity schedule (programme of notifications), the Employer may issue the Contractor with a revised programme.
- k) The Contractor shall ensure the integrity of Plant labelling and that deficiency with regards to KKS labelling is reported immediately.
- l) All staff brought onto site in connection with the SOW should be able to fluently speak, understand and write in English.
- m) Before any work starts on site the Contractor is responsible to submit their Safety File to the Employer for review and acceptance.
- n) All work is to be executed as per the Employer's requirements and specifications stipulated in the normative referenced documents in paragraph 2.2.1 above and their references or any other supporting document.
- o) The contractor will be required to take his own permits and will therefore be required to get all his technicians authorised i.t.o. PSR as RP's. Eskom Kusile Gx will allow the contractor a maximum of 6 months to get technicians authorised as RP's and will pay for the first time each individual has to attend the training. If the any individual fails the first round of courses, the contractor will carry the cost for the time spent on the subsequent round/s of courses.
- p) If the contractor does not have any RPs after 3 months of the start date of the contract, Kusile Gx reserves the right to charge the contractor for the time another RP has to spend on any work that the contractor has to do that requires a permit.
- q) The contractor is responsible for the clean-up of any oil spillage that is due to the contractor's negligence, but Eskom Kusile Gx will remain responsible to discard the oil.

3.2 Works Information

- a) The Contractor is required to perform Hydraulics Maintenance Services for all plant areas within Kusile Power Station. The Contractor will be issued with the work packages, describing the works that must be performed and on which equipment works must be performed. The Contractor shall record all as found condition and corrective actions performed in regards to this SOW. The components include but is not limited to the following equipment:
 - i. Hydraulic packs on all plant areas, i.e. Boiler, Turbine, Coal Plant, Ash Plant, Water Treatment Plant and all other Balance of plant
 - ii. Hydraulic Actuators
 - iii. Hydraulic motors
 - iv. Hydraulic solenoid valves
 - v. Hydraulic piping
 - vi. Hydraulic pumps

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- vii. Hydraulics tanks
- viii. Filters
- ix. Accumulators
- x. Oil cooling components
- xi. Flow control components
- xii. Power cylinders
- b) The contractor will be required to fault find, assess the defects and determine the appropriate maintenance intervention.
- c) Hold points, shall be witnessed by the Maintenance Personnel and System Engineer.
- d) All materials and spares used shall be as per the specification of the Employer.
- e) The Contractor shall ensure that comprehensive service records and all related history documentation are recorded in SAP.
- f) The Contractor to execute the works within the times stipulated on the works order.
- g) All works will be governed by the Employer's works management process.
- h) The Contractor immediately reports any disabling injury as well as any threat to health or safety of which it becomes aware of on the site to the Employer.
- i) The works may only commence once the Contractor has received an official task order describing the works that must be performed and on which equipment this works must be performed.
- j) Qualified and experienced personnel should conduct supervision of Hydraulics Maintenance Services.
- k) The Contractor is to ensure that the work area is to be left in the same or a better state on completion of any work.
- l) The contractor shall be able to assist with all design requirements and drawings in regards to this SOW as and when required, the contractor shall then submit it to the Employer for approval. The drawings and designs will become the ownership of the Employer.
- m) For every call out, the Contractor shall meet with the Employer's representative to discuss and agree on the repair method after full assessment of the defect.

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4. Acceptance

This document has been seen and accepted by:

Name	Designation

5. Revisions

Date	Rev.	Compiler	Remarks
April 2022	1		1 st issue

6. Development Team

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

7. Acknowledgements

None

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