

	<p style="text-align: center;">Scope of Work</p>	<p style="text-align: center;">Camden Power Station</p>
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1. Introduction

Camden Power Station (CPS) is a fossil fuel fired power station which consists of eight generating units, each capable of producing 200MWe. The boilers are front fired with a steam drum. The boiler has 5 dedicated coal milling units (A to E) each with a capability of 50MWe. During normal MCR operation, only four mills are in service and one always on standby/maintenance. The mills require to be retained in an excellent working condition to ensure complete combustions, optimum efficiency and/or to avoid partial load loss. The milling plant is a critical plant at Camden Power Station making the milling plant service and maintenance also critical as any failure may result into a 50MWe partial load loss.

The mills rejects poor quality coal, stones and foreign material to the reject box and this waste must be removed timely during the operation of the mill to ensure optimum performance.

Mills are required during unit light-ups, shut downs, normal operation and load change. Availability, reliability and performance of the milling plant is essential in terms of ensuring optimum performance of the plant and hence the need for a service contract.

2. Supporting Clauses

2.1 Scope

2.1.1 Purpose

The purpose of this document is to supply scope of work required to deliver coal reject removal services for the Milling Plant at Camden Power Station.

2.1.2 Applicability

- Boiler Engineering
- Boiler Maintenance
- Procurement
- Prospective contractor

2.1.3 Effective date

Authorisation date

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2.2 Normative/Informative References

2.2.1 Normative

- ISO 9001 – Quality Management Systems.
- OHS Act - Occupational Health and Safety Act and Regulations (Act No.85 of 1993)
- 240-105453648 – Fossil Fuel Firing Regulations Standard
- 004 4570 - Fossil Fuel Firing Regulations Camden Specific

2.2.2 Informative

N/A

2.3 Definitions

N/A

2.4 Abbreviations

Abbreviation	Explanation
C&I	Control and Instrumentation
CPS	Camden Power Station
FFFR	Fossil Fuel Firing Regulations
GO	General Overhaul
HP	High Pressure
IR	Interim Repair
LP	Low Pressure
MBSA	Maintenance Basis Standardisation Application
MGO	Mini General Overhaul
PF	Pulverised Fuel
PLL	Partial Load Loss
PSR	Plant Safety Regulations
SOW	Scope of Work
SSR	Successful Start-up Rate
UCLF	Unplanned Capability Loss Factor

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2.5 Roles and Responsibilities

- Boiler Engineering - Is responsible to draw up the scope of work for milling plant reject removal service contract.
- Boiler Maintenance - Is responsible to set-up a milling plant reject removal service contract as per the terms set-out in the SOW
- Procurement - Is responsible to ensure that the procurement process is properly followed in setting-up and awarding the milling plant reject removal service contract.

2.6 Process for Monitoring

The Procurement process ensures that the milling plant reject removal service contract is set-up according to the terms given in the SOW.

2.7 Related/Supporting Documents

N/A

3. Scope of Work

3.1 Objectives of Contract

The objective of this contract is to provide coal reject removal service for the milling plant at Camden power station.

The Employer and the Contractor shall be committed to the following:

- a) The coal rejects are removed every hour on both reject boxes of the mill. **Action 24 Mill fire prevention and operation during a mill fire (240-168911966)**
- b) The coal rejects removed from the mill reject boxes are dumped at an appropriate dumping site and the area in front of the reject doors is left clean.
- c) The amount of rejects removed from each of the two reject boxes per mill are recorded based on the number of wheel barrows.
- d) Identification and defecting inner and outer reject doors.
- e) No dumping on the floor.

The performance of the contractor shall be measured against the above criteria as well as the timely execution and quality of all planned activities. It is of critical importance that these goals are actively pursued over the long term to meet Camden's performance targets.

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3.2 Contract prerequisites

The contractor shall meet the following requirements and provide evidence to substantiate compliance:

- a) The following key positions must meet the following minimum criteria:
 - i. The proposed supervisor to have at minimum N3/or matric with and a minimum of 4 years reject removal experience.
 - ii. The proposed semiskilled employees, which will act as supervisors at the same time to have a matric certificate and a minimum of 3-year mill reject removal, experience.
 - iii. The proposed safety officer to have a SAMtrac certificate and a minimum of 1 year experience as a safety officer.

3.3 Requirements from Contractor

The following requirements must be met by the contractor:

- a) Effective planning of all mill coal reject removal between Eskom and the Contractor;
- b) Submit daily check sheets.
- c) The contractor will be responsible for dumping the mill coal rejects at an appropriate dumping site.
- d) The Contractor is expected to liaise on a daily basis with the maintenance supervisors to plan his work.
- e) The Contractor will have representation in the maintenance meeting as well as in the production meeting unless otherwise instructed by the Service Manager;
- f) In terms of the new FFFR regulation the supervisors will have to be FFFR authorised;

4. Scope of Work

4.1 Daily inspections

Daily inspections are to be done on mill reject doors for leaks and check sheets to be submit to boiler maintenance daily. The defects found on the reject doors are to be defected.

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4.2 Coal reject removal every shift

All mill coal reject removal is to be done every hour on each of the two reject boxes per mill, that is coal reject removal is to be done at least once during day shift and once during night shift. Defects picked up while removing rejects are to be defected.

4.3 Coal reject removal during weekly mill settings

- a) Clean scroll duct if necessary;
- b) Clean reject boxes if necessary;
- c) Dump all rejects at an appropriate dumping location;

4.4 Coal reject removal during 1500hrs maintenance

- a) Clean out reject boxes and plenum chamber;
- b) Check inner reject doors for free operation and record on check sheet;
- c) Adjust inner reject door for tight seal air;

4.5 Milling Plant Limits (Boundaries)

The Contractor will be expected to remove coal reject from mills in accordance with the details indicated below.

The Milling Plant limits are as follows:

- Inner and outer reject doors of the mill.
- Scroll duct/Plenum chamber.

5. Acceptance

This document has been seen and accepted by:

Name	Designation
Gabriel Moshe	Senior Technician (Milling Plant)
Sakhile Zwane	Boiler Technician

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6. Revisions

Date	Rev.	Compiler	Remarks
October 2024	02	Doctor Masuku	Updated for new contract
August 2021	01	Malusi Ngcobo	Original Issue

7. Development Team

Not Applicable

8. Acknowledgements

N/A

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