




	MATLA POWER STATION SCOPE OF WORK	Document Identifier	14593	Rev	6
		Effective Date	March 2023		
		Review Date	March 2026		

PLANT AREA: Matla Power Station


TITLE: Raw coal sampling on mill feeders and coarse ash sampling across all units

REF: MEP-051336		Reference Rev No:2		MULTIDISCIPLINARY: No		Plant Level: All
COMPILED BY	Name: Marcio Maluka Systems Engineer/End User.	Signature		Date	24.06.2024	
APPROVED	Name: Brenda Moeng Line Manager.	Signature		Date	24-06-2024	
APPROVED	Name: Lindo Ngobese Group Manager.	Signature		Date	25/06/2024	
REVIEWED	Name: John Lourenco Quality Department	Signature		Date	17/12/2024	
ACCEPTED	Name: Brenda Moeng Process Engineering Manager	Signature		Date	24-06-2024	

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NB: Do not tamper with the template.

GENERAL


- Data books, reviews, reports, and diagrams/drawings shall be submitted to Engineering after the completion of the work. Engineering to forward the data books to Quality Department (Document Control)
- All QCP's to be submitted to Engineering and Quality for approval prior to outage/project or maintenance work commencement.

	SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
11	Occupational Health and Safety	<ul style="list-style-type: none"> • Health and safety file should be approved by Safety risk management department prior to any work commences on site • All work is to be done in accordance with OHS Act 85 of 1993, Matla plant procedures and Plant Safety Regulations (240-150642762) • Matla power station SHEQ induction must be done before access to site can be granted • The contractor should ensure that all employees have acquired the required competency for the task they are performing • The contractor to ensure compliance to updated legal requirements and other requirements 	Eskom to witness	Contractor

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1.2	Environmental Management	<ul style="list-style-type: none"> All activities listed in the National Environmental Act 107 of 1998, EIA Regulations as amended, must have environmental AUTHORISATION before commencement of work The contractor shall comply with all applicable legal and other requirements The polluter pays principle will be applied The contractor manager shall ensure compliance with Eskom Matla Environmental procedures to ensure the prevention of pollution (refer OMOP 4090 and 4402) The last payment will be processed based on the status of the last housekeeping check sheet (Annexure C OMOP 4402) of designated area EMS file based on ISO14001 will be required 	Eskom to witness	Contractor
1.3	Quality Management	<ul style="list-style-type: none"> The contractor/executioner of work will be responsible for drawing up all QCP documentation and this must be approved by engineering and authorised by the Quality Department before commencing with the work. Contractors/executioner to adhere to QM 58 and OMOP4497 requirements Number of NCR issued can affect your next tendering process The QCP shall be signed progressively by the Engineer/Supervisor, Eskom QC Inspector, Contractor QC Inspector and/or AIA No procuring of outage items without the approval of scopes by quality 	Hold point	Contractor

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		<ul style="list-style-type: none"> All outage scopes creep and scopes addition should be approved by quality No contractor should be in the possession of scopes for execution without the scopes approved by quality The contractor is subjected to quality auditing at any point in time during execution of scope 		
1.4	Inputs from other departments			
1.5	Commissioning reference			

	SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
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	SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOI D POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
2.	<i>Raw coal sampling</i>			
2 1	Raw coal sampling on each feeder across the units, general and moisture samples of coal to be collected on specified running mills	Raw coal to be sampled at the coal feeder chute at 16ml level, the method of sampling to conform with ISO 18283 standard for manual sampling of hard coal and coke	S	Contractor
2 2	A portion of the raw coal representative sample must be placed in containers for total moisture analysis	Containers used for moisture or common samples should be watertight and made of impermeable non-corrodible material, of adequate strength and, where applicable, with well-fitting lids. Containers made from metal or plastic material have been found suitable. If common samples or moisture samples are required, the sample containers shall be impervious to water and vapour and have sufficient mechanical strength to ensure that the integrity of the sample is not impaired during removal and transport (Refer to ISO 18283)	S	Contractor
2 4	Housekeeping		W	Contractor
3.	<i>Coarse ash sampling</i>			
3 1	Boiler bottom ash (BBA) sampling at ash hoppers	BBA to be sampled on one ash hopper across the units during the bottom ash removal process.	S	Contractor
3 2	A representative sample must be placed in bottle to maintain sample integrity and must be transported from the station to RT&D coal lab in Johannesburg for chemical species analysis.		S	Contractor

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3	Housekeeping		W	Contractor
4.	Ce-grit/Fly Ash Sampling			
	Cegrit and fly ash samples to be collected at unit designated flyash samplers	Fly ash samplers are available at either 35ml on the economizer outlet (units 1, 2 and 3) or at the secondary air heater gas outlet at 16ml (units 4, 5 and 6)	S	Contractor
5.	Rejects			
	Each specified mill to be rejected as per OMOP 557-4419	Mill to be rejected as per OMOP 557-4419 and wheelbarrow samples collected for RT&D analysis A cooling period of approximately an hour will be required prior to collection of the reject sample from each mill, alternatively the temperature of the rejects may be checked via temperature gun	S	Contractor
6.	Identification/Labelling	<p>The sample in each container shall be fully and permanently identifiable It is recommended that for this purpose the container be provided with two waterproof tags, each marked by means of waterproof ink with adequate identifying information, one tag being placed on the outside of the container, and one being placed inside the container, if a plastic inner liner is used, the latter tag should be placed inside this liner</p> <p>The following information to be made available on the tags</p> <ul style="list-style-type: none"> • Title (i.e., Unit 4 STEP test) • Place, date, and time of sampling • Type of sample and its intended use (i.e., Mill A moisture sample, RHS Cegrit sample) • Final mass of sample 	W	Contractor

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7.	Sample Storage/Transportation	All samples must be contained to maintain sample integrity and must be transported from the station to RT&D coal lab in Johannesburg for further analysis	S	Contractor
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BILL OF MATERIAL

	Full description of Material/Spares/Equipment	Specifications of Material/Spares/Equipment	Stock No	Part Number	Required Quantity

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SCOPE COMPILATION REFERENCES				
SOURCE & Ref No.	Yes	No	N/A	Comments
Previous outage service reports				
Return to service data packages				
Maintenance Strategy with Rev number				
SAP defects (attach list as appendix)				
GHRMS (STEP) reports (Generation Heat Rate Management System)				
Online Condition Monitoring				
Pre-outage performance test results				
Post outage performance test results				
GPSS/ Plant Performance data on UCLF incurred				
OMS / IIRMS recommendations (Audits Reports)				
Risk controls (IRM system)				
Previous audits and reviews (e.g. ERAP)				
Engineering Change Requests (Projects)				
LOPP strategy reports				

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URS				
Philosophy (Outage)				
Condition Monitoring Report				
VA/PHD Viewer trends				
Corrective Actions				
CARAB reports				
Statutory Requirements				
Grid code requirements				
Waivers and Exemptions				
Calibration requirements				
Previous Outage SOW variations				
Post Mortems Actions from previous outages				
Pre-Outage plant walks				
Risk based inspection (RBI) report				
Simulation, TOIs, OON, SI				

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COMMENTS

ATTACHMENTS: DRAWINGS, SKETCHES, DIAGRAMS, INSTRUCTIONS, etc	
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