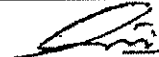




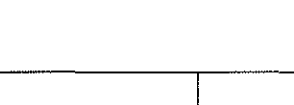
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PLANT AREA: MATLA POWER STATION – TURBINE PLANT					
TITLE: STEAM AND FLOAT TRAPS CONTRACT SCOPE					
REF: MET - 057370		Reference Rev No 1		MULTIDISCIPLINARY No	
				Plant Level: All	
COMPILED BY	Name: Hlavutelo Nkwini Systems Engineer/End User	Signature		Date 11/09/2023	
APPROVED	Name: Zain Karodia Line Manager	Signature		Date 12/09/2023	
APPROVED	Name: Lindokuhle Ngobese Group Manager	Signature		Date 2023/09/14	
REVIEWED	Name: Johan Lourens Quality Department	Signature		Date 2023/09/14	
REVIEWED	Name: Thando Zingir Environmental Department	Signature		Date 2023/09/14	
ACCEPTED	Name: Outage Manager/Maintenance manager	Signature		Date 14.09.2023	
ACCEPTED	Name: AIA	Signature		Date	

NB: Do not tamper with the template.

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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
1 1	Safety	<ul style="list-style-type: none"> • All work is to be done in accordance with Matla plant procedures and safety regulations (GGR 0992) • Matla power station induction must be done before any work commences • Permit to work must be in place before any work commences • <i>Worker's register must be completed and daily risk assessment conducted before any work commences</i> 	Eskom to witness	Contractor
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) 	Eskom to witness	Contractor

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		<ul style="list-style-type: none"> 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 		
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 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 	Hold point	Contractor
1.4	Inputs from other			

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	departments			
1.5	Commissioning reference			

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	SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
1	Employ ultrasonic testing equipment and Thermal cameras prior to an outage to listen or view for trap malfunction	Submit report to Engineering	W	Contractor
2	Ensure permit is applied before working on steam/float traps	Communicate all requirements with outage coordinator		Ops
3	<u>Steam trap</u> Strip open and clean internals of steam traps (body, cover, regulator and all sealing surfaces) Clean strainer or replace strainer if damaged beyond function Ensure regulator has sufficient play Reset the regulators if necessary Factory settings must be maintained Replace regulator if necessary Inspect the inner and outer sealing rings	Gasket specification Graphite reinforced with stainless steel	W	Contractor

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	Assemble steam traps with new gasket			
3	<u>Float trap</u> Strip open Clean control unit and all sealing surfaces Replace control unit in case of operational deviation Assemble float traps with new gasket	Gasket specification Graphite reinforced with stainless steel	W	Contractor
5	Eskom Quality and Engineering to be called for inspection once steam/float trap(s) stripped		W	Eskom Quality and Engineering
6	Contractor to supply complete steam/float traps			Contractor
7	Report all defects to engineering in a formal report		H	Contractor
8				

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#	Alpha numeric	Qty.	NB (mm)	PN (Bar)	Material	TYPE	Location	Drawing Sheet
1	RB40S002	1	25	160	13CRMo44	BK29	FlashBox #3 (Drain # 40 from LP Bypass)	047/3207 Sheet2
2	RC20S004	1	25	64	ST45 8/C22N	BK27	Expansion Vessel RJ30G003 (Drain #12)	047/3207 Sheet2
3	RF51S011	1	25	40	st45 8/15Mo3	BK15N	FlashBox # 5 (Drain # 61)	047/3207 Sheet3
4	RF52S011	1	25	40	st45 8/15Mo3	BK16N	FlashBox # 5 (Drain # 62)	047/3207 Sheet3
5	RF61S011	1	25	64	st45 8/15Mo3	BK27	Expansion Vessel RJ30G003 (Drain #63)	047/3207 Sheet3
6	RF61S015	1	15	64	st45 8/15Mo3	BK27	Expansion Vessel RJ30G003 (Drain #66)	047/3207 Sheet3
7	RF62S011	1	25	64	st45 8/15Mo3	BK27	Expansion Vessel RJ30G003 (Drain #64)	047/3207 Sheet3
8	RF62S015	1	15	64	st45 8/15Mo3	BK27	Expansion Vessel RJ30G003 (Drain #66)	047/3207 Sheet3
9	RH40S011	1	25	25	ST45 8/C22	BK15	Expansion Vessel RJ30G003 (Drain #11)	047/3207 Sheet4
10	RH40S027	1	25	25	ST45 8/C22	BK15	FlashBox #3	047/3207 Sheet4
11	RH45S006	1	15	25	ST35 8/C22N	BK15	FlashBox #3	047/3207 Sheet4

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12	RH45S008	1	15	25	ST35 8/C22N	BK15	FlashBox #3	047/3207 Sheet4
13	RQ00S004	1	25	25	ST35 8/C22N	BK15	Aux Steam header (To the mixed temperature pit)	047/3207 Sheet10
14	RQ40S003	1	15	25	ST35 8/C22N	BK15	Aux Steam header	047/3207 Sheet10
15	RQ50S003	1	15	25	ST35 8/C22N	BK15	Aux Steam header	047/3207 Sheet10
16	SA11S551	1	15	25	ST35 8/C22N	BK15	Aux Steam header	047/257
17	SH10S501	1	15	640	10CrMo910 III	BK212	FlashBox #1 (Drain #2)	047/257
18	SH10S509	1	15	640	10CrMo910 III	BK212	FlashBox #1 (Drain #1A)	047/257
19	SH10S510	1	15	640	10CrMo910 III	BK212	FlashBox #1 (Drain #1B)	047/257
20	SH10S511	1	15	160	13CrMo44 III	BK29	FlashBox #3 (Drain #5)	047/257
21	SH10S512	1	15	160	13CrMo44 III	BK29	FlashBox #3 (Drain #20)	047/257
22	SH10S513	1	15	160	13CrMo44 III	BK29	FlashBox #3 (Drain #21)	047/257
23	SH10S519	1	15	160	13CrMo44 III	BK29	FlashBox #1 (Drain #19)	047/257
24	SH10S520	1	15	160	13CrMo44 III	BK29	FlashBox #3 (Drain 4B)	047/257
25	SH10S652	1	15	25	ST355 8/C22N	BK15	Expansion Vessel RJ30 G003 (Drain #49)	047/257
26	SH50S502	1	15	25	St35 8II/C22N	BK15	FlashBox # 3 (Drain 52)	047/257

Table 1 : Steam Traps

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Previous audits and reviews (e.g. ERAP)			X	
Engineering Change Requests (Projects)			X	
LOPP strategy reports			X	
URS			X	
Philosophy (Outage)			X	
Condition Monitoring Report			X	
VA/PHD Viewer trends			X	
Corrective Actions			X	
CARAB reports			X	
Statutory Requirements			X	
Grid code requirements			X	
Waivers and Exemptions			X	
Calibration requirements			X	
Previous Outage SOW variations			X	
Post Mortems Actions from previous outages			X	
Pre-Outage plant walks			X	
Risk based inspection (RBI) report			X	
Simulation, TOIs, OON, SI			X	

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