

	Technical Evaluation Strategy	Generation
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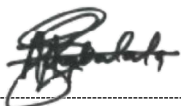
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1. Introduction

This document provides the tender technical evaluation criteria for the refurbishment of Arnot Main Ejector Condenser.

2. Supporting Clauses

2.1 Scope

The document covers the Tender Technical Evaluation Strategy for the Main Ejector Condenser refurbishment.

2.1.1 Purpose

The purpose of this tender technical evaluation strategy is to define the Mandatory Evaluation Criteria, Qualitative Evaluation Criteria and TET member responsibilities for tender technical evaluation. The technical evaluation strategy serves as basis for the tender technical evaluation process.

2.1.2 Applicability

This document applies to Group Technology and all other relevant stakeholders that have an affiliation to this specific project including Arnot Power Station.

2.1.3 Effective date

This document is effective from the date of authorisation until its withdrawn.

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] 240-48929482 Tender Technical Evaluation Procedure
- [2] AETP 0075 Arnot Power Station Main Air Ejector Condenser Refurbishment Technical Specification (Rev 1)

2.2.2 Informative

N/A

2.3 Definitions

N/A

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2.3.1 Classification

Controlled Disclosure: Controlled Disclosure to external parties (either enforced by law, or discretionary).

2.4 Abbreviations

Abbreviation	Explanation
MAE	Main Air Ejector Condenser

2.5 Roles and Responsibilities

As per 240-48929482: Tender Technical Evaluation Procedure.

2.6 Process for Monitoring

N/A

2.7 Related/Supporting Documents

None.

3. TENDER TECHNICAL EVALUATION STRATEGY

3.1 TECHNICAL EVALUATION THRESHOLD

The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is 70%.

The contractor/vendor must comply with ALL of the following criteria. Non-compliance with any mandatory requirement shall result in technical disqualification.

3.2 TET MEMBERS

Insert text here.

Table 1: TET Members

TET number	TET Member Name	Designation
TET 1	Herman van Niekerk	Senior Consultant - Feedheating
TET 2	Khehla Tshabalala	Senior Engineering Technologist
TET 3	Donald Ndhlovu	System Engineer: Condensate
TET 4	Siyabonga Makasi	Senior Supervisor Technical Maintenance Turbine

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3.3 MANADATORY TECHNICAL EVALUATION CRITERIA

Table 2: Mandatory Technical Evaluation Criteria

	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1.	Contractor shall provide proof of a valid ISO 3834-2 certification (all pages) for the company/manufacturer that owns and runs the workshop where the MAE will be refurbished (re-tubed). The scope of accreditation of the ISO 3834-2 certificate shall include the design code (AD 2000 Code) or the one that replaced AD 2000 (EN 13445) to be used for this project.	Section 4.1 in [AETP 0074]	Eskom welding requirement from Eskom welding standard.
2.	Verifiable reference list of shell and tube heat exchangers manufactured by the manufacturer during the last 5 years. A minimum number of 5 are required. • Years of experience and training as a re-tubing operator/artisan • Availability of specialized tools (rollers, hydraulic expanders, beading tools, tube pullers, plug tools) • Detailed work schedule aligned to the plant outage program • On-site supervision by a qualified Mechanical Engineer/Technologist	Section 4.1 in [AETP 0074]	Ensure supplier has sufficient experienced to manufacture these coolers.

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3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 3: Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)
1.	Workmanship & Installation Methodology Contractor must submit detailed procedures for: • Tube removal (safe extraction without tube sheet damage) • Tube sheet cleaning and surface preparation • Tube insertion and expansion methods: ○ Controlled rolling/expansion torque settings ○ Hydraulic expansion (if applicable) • Control of tube protrusion tolerances on steam and water sides Tube cutting, beveling, and finishing methodology (An example of a method statement, from the Manufacturer, for tube expansion used for a similar vessel manufactured previously.)	Section 3.3 to 3.10 in [AETP 0074] and Section 4.2 in [AETP 0074]	20
2.	Compliance With Design & Material Specifications • Tubing material must comply with <i>240-76648318 Specification for the Procurement of UNS S44660 Stainless Steel Condenser Tubes</i> as per plant design. • Chemical composition certificates (Mill Test Certificates) must be supplied with: ○ Heat number traceability	Section 3.9 in [AETP 0074]	10

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	Qualitative Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)
	○ Mechanical properties ○ Chemical analysis • All tubes must be clearly marked with heat numbers; no illegible tubes will be accepted. • Tube OD, wall thickness, and length must meet original OEM design tolerances. All NDE personnel must be ISO 9712 certified		
3.	Any deviances or omissions to specifications must be stated, if no deviances a letter to that regard must be supplied	[2] Arnot Power Station Main Air Ejector Condenser Refurbishment Technical Specification (Rev 1)	70
			TOTAL: 100

3.5 TET MEMBER RESPONSIBILITIES

Table 4: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3	TET 4
1	X	X	X	X
2	X	X	X	X
Qualitative Criteria Number	TET 1	TET 2	TET 3	TET 4
1	X	X	X	X

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2	X	X	X	X
3	X	X	X	X
4	X	X	X	X

3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.6.1 Risks

Table 5: Acceptable Technical Risks

Risk	Description
1.	QCP are of a high level and does not include all details.
2.	Method statement for expansion is not detailed enough.
3.	Tool list not completely filled in.

Table 6: Unacceptable Technical Risks

Risk	Description
1.	Large amount of critical exceptions to scope of work
2.	Missing certifications or documentation for pressure integrity
3.	Poor Quality Control and Documentation
4.	Use of Incorrect or Non-Conforming Tube Material

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5.	Loss of Material Traceability
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3.6.2 Exceptions / Conditions

Table 7: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	Full compliance to specification is required.
1.	Approved Alternative Tube Expansion Methods
2.	Use of Modern or Improved Materials

Table 8: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	None
2.	
3.	

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4. Acceptance

This document has been seen and accepted by:

Name	Designation
Khehla Tshabalala	Senior Engineering Technologist
Herman van Niekerk	Senior Consultant - Feedheating
Lindokuhle Sibeko	System Engineer: Condensate
Donald Ndhlovu	System Engineer: Condensate
Dikeledi Molotia	Senior Technician Maintenance
Siyabonga Makasi	Senior Supervisor Maintenance Technical
Mduduzi Ngwane	Turbine Maintenance Manager

5. Revisions

Date	Rev.	Compiler	Remarks
March 2026	1	A.K. Tshabalala	First issue after updating all recommendations after team review.
February 2026	0.1	A.K. Tshabalala	First Draft for review and approval

6. Development Team

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

- Khehla Tshabalala – Senior Engineering Technologist
- Herman van Niekerk - Senior Consultant: Feedheating

7. Acknowledgements

None.

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