

Title: **Tender Technical Evaluation
Strategy**
**Camden Condensate and
Feedwater System Safety Valve
Service Contract**
60 Months

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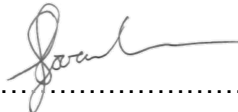
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1. INTRODUCTION

The purpose of this document is to provide a technical scope of work for the establishment of a **Camden Power Station safety valve refurbishment ^[1] service contract for the condensate and feedwater systems**, for a period of **60 months, with a safety valve refurbishing company**.

Note [1] – Scope of Work: TE-IN-182 – REV 7

2. SUPPORTING CLAUSES

2.1 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.

2.2 APPLICABILITY

- Camden Procurement Department
- Camden Tender Committee

2.3 NORMATIVE/INFORMATIVE REFERENCES

2.3.1 Normative

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

[1] OHS-Act	Occupational Health and Safety Act 85 of 1993 (OHS-Act)
[2] PER	Pressure Equipment Regulation (PER)
[3] SANS 347	South African National Standard 347 (SANS)
[4] PD 5500	Specification for unfired fusion welded vessels
[5] EN 13445	Unfired Pressure Vessels
[6] EN13480	Metallic Industrial Piping
[7] AD-2000	Technical rules for pressure vessels (TRB) / AD-Merkblätter
[8] ISO 3834	Quality requirements for Welding
[9] API 527	American Petroleum Industry – Seat tightness test
[10] ASME Section I	Rules for construction of power boilers
[11] ASME Section VII	Recommended guidelines for the care of power boilers
[12] ASME Section VIII	Rules for construction of pressure vessels (divisions 1-3)
[13] ASME Piping Codes	B31.1 – Power Piping, B31.3 – Process Piping

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2.3.2 Eskom Standards

[14] QM 58	Supplier Contract Quality Requirements Specification
[15] 240-168966153	Generation Tender Technical Evaluation Procedure
[16] 240-83539994	Standard for Non-Destructive Testing (NDT) on Eskom Plant
[17] 240-84979413	Maintenance and Repair of Valves and Fittings Standard
[18] 240-166574085	Safety Valve Inspection Refurbishment and Testing Procedure

2.3.3 Classification

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

2.4 TECHNICAL EVALUATION PLAN

The technical evaluation will be conducted in three phases:

2.4.1 Evaluation Phase 1

Mandatory criteria M-1 and M-2 will be evaluated by the technical evaluation team, companies that do not meet the mandatory requirements will be removed from the tender.

2.4.2 Evaluation Phase 2

During this phase of the technical evaluation, all companies that meet the requirements of Mandatory Criteria M-1 and M-2 will be invited to participate in a scheduled workshop visit by the technical evaluation team.

Each company will be presented with a safety valve and required to perform the following tasks as part of Mandatory Criteria M-3:

- Dismantle the valve.
- Lap the sealing surfaces.
- Set the pressure lift at **21 MPa**.
- Conduct a **seat tightness test** in compliance with an acceptable safety valve seat tightness testing standard (ASME, EN).
- Only companies that are able to set the valve lift pressure to **21 MPa**, within the tolerances specified by **PD 5500**, and achieve a seat tightness test that satisfies the acceptance criteria of the acceptable reference standard will be considered compliant with **Mandatory Requirement M-3**.

2.4.3 Evaluation Phase 3

Qualitative evaluation of companies that met the requirements of M-1, M-2 and M-3. The minimum threshold is set at 75%, only companies that score 75% and higher on their qualitative evaluation will be successful in the technical evaluation. Companies that score less than 75% will be removed from the tender.

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2.5 DEFINITIONS

Definition	Description
Maintenance	Repair and replacement of components to endure the reliable operation of the plant and conformance to statutory legislation
Outage	Planned down-time for a specific power station Unit. An outage is a maintenance opportunity, during which outage scope of work is executed.

2.6 ABBREVIATIONS

ADM	AD-Merkblatter (Design code)	PER	Pressure Equipment Regulation
AIA	Approved Inspection Authority	PMI	Positive Material Identification
CEP	Condensate Extraction Pump	PO	Purchase order
CW	Cooling Water	PT	Penetrant Testing
GO	General Overhaul	PTW	Permit to work
HP	High Pressure	QCP	Quality Control Plan
ID	Inside Diameter	RT	Radiographic Testing
LP	Low Pressure	SE	System engineer
MPI	Magnetic Particle Inspection	SOW	Scope of work
NDE	Non-Destructive Examination	UT	Ultrasonic Testing
OC	Outage Coordinator		

2.7 ROLES AND RESPONSIBILITIES

As per 240-168966153: Generation Tender Technical Evaluation Procedure

2.8 RELATED/SUPPORTING DOCUMENTS

- [1] 240-53716746: Tender Technical Evaluation Report
- [2] 240-53716712: Tender Technical Evaluation Results Form
- [3] 240-53716726: Tender Technical Evaluation Scoring Form

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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 **75%**.

The deviation from the recommended 70% in the Generation Tender Technical Evaluation Procedure (240-168966153) is necessary as the qualitative tender criteria is important and extremally relevant to the works, 70% compliance could potentially allow companies with technical shortcomings to pass the technical evaluation, therefor an additional 5% is added to the minimum threshold for acceptance.

3.2 TECHNICAL EVALUATION TEAM MEMBERS

Generation Tender Technical Evaluation Procedure (240-168966153) transaction type 1b, requires a minimum of 2 evaluators per engineering discipline, for Services with technical scope content ≤R100m that is deemed technically complex by the Accountable Manager.

Table 1: Technical Evaluation Team Members

TET number	TET Member Name	Designation
TET 1	Abel Rudman	Senior Engineer Turbine Engineering Pr. Eng Appointed Responsible Person for this tender evaluation.
TET 2	Paul Le Grange	System Engineer Condensate and Feed heating
TET 3	Selelepoo Ntoampe	Senior Advisor Technical Support

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3.3 MANDATORY TECHNICAL EVALUATION CRITERIA

Table 2: Mandatory Technical Evaluation Criteria

For digital tender submissions, each document file related to the mandatory criteria must be clearly labelled in accordance with the relevant criteria designation (M-1, M-2, M-3).

No.	Mandatory technical criteria description	Tender returnable	Motivation for use of criteria
M-1	Company Profile	<p>Company Profile – Required Submission</p> <p>Tenderers must submit a comprehensive company profile that includes the following information:</p> <p>1. Workshop Location and Facilities</p> <ul style="list-style-type: none"> - The physical address of the main workshop where safety valve refurbishment will be performed. - Photographic evidence of all key equipment relevant to the refurbishment process, including but not limited to: <ul style="list-style-type: none"> ▪ Pressure setting test equipment. ▪ Spring testing equipment. ▪ Seat tightness test equipment. ▪ Lathes and machining equipment. ▪ Welding equipment. ▪ Lapping equipment and lapping pastes. <p>2. Organisational Structure and Staff Competency</p> <ul style="list-style-type: none"> - A detailed organisational chart indicating staffing levels, roles, and reporting lines. - Detailed record for all current technical personnel working on safety valves, showing their safety valve refurbishment experience, safety valve training and qualification certificates related to safety valve refurbishment (Trade and Technical Qualifications). <p>Note: The tenderer must be the entity that will carry out the actual refurbishment work. Subcontracting of the physical scope is not permitted.</p> <p>A site visit will be conducted by the technical evaluation team to verify the tenderer's facilities and capacity to perform the required scope of work if the tenderer successfully satisfies M-1 and M-2.</p>	The tenderer shall be the entity that executes the physical scope and the tenderer's facilities will be visited for confirmation of their capacity to execute the required scope.

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No.	Mandatory technical criteria description	Tender returnable	Motivation for use of criteria
M-2	Company experience – relevant to the tender SOW	<p>Submit a track record of safety valve work that was performed by the tenderer for the contract, not dating further back than 2022, detailing refurbishment work done on SANS 347 CAT IV pressure vessel safety valves. The track record must be presented in the following format:</p> <p>The company tendering for the contract must obtain recent (compiled in 2025) client letters from previous clients (listed on the track record) for whom the safety valve refurbishment work was done. These Client letters will only be accepted by the technical evaluation team if they meet the following criteria:</p> <ul style="list-style-type: none"> • Confirm that the company tendering for the contract has performed the safety valve refurbishment work. • Describe the detailed scope of work executed by the company tendering for the contract. • Confirm that the refurbished safety valve, protects a SANS 347 CAT-IV rated pressure vessel. • Be issued on the Client's official company letterhead, which includes current contact details for the client. • Include a client statement of satisfaction. If the Client does not express satisfaction with the work that was performed by the company tendering for the contract, the letter will be disregarded. • Be signed by the managing director of the client company, or by a responsible authority employed by the client on permanent basis, and which is registered with ECSA as a professional engineer or technologist (their ECSA number must be included on the letter). <p>Work completed prior to 2022 will not be considered by the technical evaluation team.</p> <p>A minimum of three (3) valid and verified client letters for three (3) separate safety valves must be submitted to satisfy mandatory requirement M-2.</p>	Assess the contractor's competency and capacity to perform safety valve refurbishment to the required quality and compliance standards

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No.	Mandatory technical criteria description	Tender returnable	Motivation for use of criteria
M-3	Workshop Visit at the Company tendering for the contract's workshop where the safety valves will be refurbished.	<p>Eskom Tender Evaluation Site Visits</p> <p>The Eskom Tender Evaluation Team will conduct workshop visits for all tenderers who meet Mandatory Requirements M-1 and M-2.</p> <p>During the site visit, the evaluation team will inspect the tools, equipment, and personnel involved in safety valve refurbishment. As part of the assessment, each tenderer will be provided with a safety valve and required to:</p> <ul style="list-style-type: none">- Dismantle the valve,- Lap the sealing surfaces,- Reassemble the valve,- Set the lift pressure to 21 MPa, and- Perform a seat tightness test. <p>The safety valve in question is intended to protect a SANS 347 Category IV pressure vessel, designed to PD5500. Accordingly, the pressure setting, and seat tightness must comply with the tolerance and leakage acceptance criteria specified by PD5500 and ISO4126-1.</p> <p>Failure to achieve a lift pressure within the specified tolerance range (ISO4126-1) or to meet the leak-tightness criteria will result in disqualification from the tender process.</p> <p>The workshop visited by the evaluation team must be the same workshop that was described in mandatory criteria M-1.</p>	Proof of safety valve refurbishment capabilities, verify tender submissions and claims.

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3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 3: Qualitative Technical Evaluation Criteria

For digital tender submissions, each document file related to the qualitative criteria must be clearly labelled in accordance with the relevant criteria designation (Q-1, Q-2, Q-3, Q-4, Q-5, Q-6).

No.	Criteria Description	Scoring (240-168966153)	Weight
Q-1	<p>Valve Refurbishment Data Pack Submission</p> <p>Please submit a historical data pack for a safety valve that was previously refurbished by the company tendering for this contract. The data pack must include the following documentation:</p> <p>Quality Control Plan (QCP): A detailed QCP outlining all steps involved in the refurbishment process, from the receipt of the valve to final packaging for transport. The QCP must:</p> <ul style="list-style-type: none"> - Be approved by the client for whom the work was performed. - Include clearly defined hold and witness points. - Contain sign-offs at each hold and witness point by the client. <p>Valve Identification and Dimensional Records: Documentation clearly identifying the valve, including:</p> <ul style="list-style-type: none"> - Valve type, manufacturer, and unique serial number. - A record of critical safety valve dimensional measurements taken before and after refurbishment. <p>Spring Testing Report: A report detailing the results of the safety valve spring testing, signed by the client.</p> <p>Pressure Testing Certificate: A certificate confirming that the valve passed final pressure testing, signed by the client.</p>	<p>0: Totally deficient or non-responsive</p> <p>2: Not submitting one or several of the following required documents, or submitting any of the following documents while not meeting the requirements of Q1:</p> <ul style="list-style-type: none"> - Quality Control Plan - Valve Identification and Dimensional Records: - Pressure Testing Certificate <p>4: All submitted documents meet the requirements of Q1, but the spring testing report is not submitted or is submitted but does not meet the requirements of Q1.</p> <p>5: All documents are submitted and meet the requirements of Q1.</p>	20%
Q-2	<p>Spring Stiffness Testing Capability for Safety Valves</p> <p>Tenderers must submit the following documents as evidence of their ability to perform accurate and repeatable safety valve spring stiffness testing:</p> <p>Description of Spring Testing Equipment and Facilities</p> <ul style="list-style-type: none"> - Detailed description of the equipment used for testing spring stiffness (e.g., spring testing machine model, calibration status, accuracy class). - Photographs of the equipment and test setup, include serial numbers of the testing machine and related measurement devices. - Confirmation that the equipment is owned and available on-site (not subcontracted). 	<p>0: Totally deficient or non-responsive</p> <p>2: Not submitting one or several of the following required documents, or submitting any of the following documents while not meeting the requirements of Q2:</p> <ul style="list-style-type: none"> - Calibration certificates not submitted, - Spring stiffness testing procedure - Sample spring testing report <p>4: All documents satisfactory but the spring stiffness testing procedure does not include acceptance criteria and reference relevant standards (e.g., ASME, API or EN).</p>	20%

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No.	Criteria Description	Scoring (240-168966153)	Weight
	<p>Equipment Calibration Certificates</p> <ul style="list-style-type: none"> - Valid calibration certificates for the spring testing equipment, issued by an accredited calibration laboratory (ISO/IEC 17025 preferred). - Certificates must be current and show traceability to national or international standards. <p>Spring Stiffness Testing Procedure</p> <ul style="list-style-type: none"> - Documented standard operating procedure (SOP) or work instruction outlining the method used to test and verify spring stiffness. - The procedure must include acceptance criteria and reference relevant standards (e.g., ASME, API or EN). <p>Sample Spring Testing Report</p> <ul style="list-style-type: none"> - A completed example of a spring stiffness test report from a previous job (client details can be redacted if necessary). - Report must include measured stiffness, test conditions, and sign-off by a qualified technician and the client to which the safety valve belonged to. 	<p>5: All documents are submitted and meet the requirements of Q2.</p>	
Q-3	<p>Use of OEM Parts – Required Proof of Compliance</p> <p>The company tendering for the safety valve refurbishment contract must submit evidence that original equipment manufacturer (OEM) parts are used during valve refurbishments. The following documentation must be provided as part of the tender submission:</p> <p>Case Study: Submit documentation for a previously completed safety valve refurbishment, demonstrating the use of OEM replacement parts. The submission must include:</p> <p>Refurbishment Quality Control Plan (QCP): A fully completed and signed QCP for the refurbishment, clearly identifying:</p> <ul style="list-style-type: none"> - The valve make, model, and serial number. - All components that were replaced during the refurbishment. - Signatures from the client at all required hold/witness points. <p>OEM Spare Parts Invoice: A copy of the invoice for the replacement parts, showing they were procured directly from the OEM or the OEM's authorised representative.</p> <p>Proof of Payment: Bank-generated proof of payment confirming that the tendering company paid the invoice for the OEM-supplied spares.</p>	<p>0: Totally deficient or non-responsive</p> <p>2: Not submitting one or several of the following required documents, or submitting any of the following documents while not meeting the requirements of Q3:</p> <ul style="list-style-type: none"> - Refurbishment Quality Control Plan (QCP). - OEM Spare Parts Invoice. - Proof of Payment. <p>4: N/A</p> <p>5: All documents are submitted and meet the requirements of Q3.</p>	10%

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No.	Criteria Description	Scoring (240-168966153)	Weight
	<p>OEM Authorisation Letter (if applicable):</p> <p>If parts were procured from a local representative or distributor rather than directly from the OEM, a formal letter from the OEM must be included. This letter must confirm that the local representative is officially authorised to supply genuine spare parts for the specific valve make and model.</p>		
Q-4	<p>Safety Valve Training – Proof of Competency</p> <p>The contractor must provide verifiable evidence that at least one current technical staff member employed by the company tendering for the contract has received formal training in the repair and refurbishment of safety valves.</p> <p>The following documentation must be submitted as part of the tender returnable:</p> <p>Training Certificate(s): Certificate(s) of successful completion of safety valve repair and refurbishment training, issued by a recognised training provider, OEM, or accredited institution.</p> <p>Training Date Requirement: Only training completed in 2015 or later will be accepted as valid evidence of competency.</p> <p>Additional Supporting Documentation (if available): Detailed course content or syllabi (if the certificate does not indicate the scope of training).</p>	<p>0: Totally deficient or non-responsive</p> <p>2: Not submitting one or several of the following required documents, or submitting any of the following documents while not meeting the requirements of Q4:</p> <ul style="list-style-type: none"> - Training Certificate(s). - Training Date Requirement. <p>4: All documents satisfactory but the Additional Supporting Documentation is not included in the submission.</p> <p>5: All documents are submitted and meet the requirements of Q4.</p>	10%
Q-5	<p>Safety Valve Lapping Procedure – Metal seated safety valves</p> <p>Tenderers must submit the following documentation as proof of capability and control over the lapping process used during safety valve refurbishment:</p> <p>Documented Lapping Procedure</p> <p>A controlled work instruction or standard operating procedure (SOP) detailing the lapping process. The procedure must include:</p> <ul style="list-style-type: none"> - Surface preparation methods. - Lapping materials used (e.g., types and grades of lapping compounds). - Desired surface finish specification in micrometres (µm). - Equipment used (lapping plates, tooling, etc.). - Critical quality checks (e.g., contact pattern inspection). - Acceptance criteria for sealing surfaces. <p>Lapping Equipment Description</p> <p>Description of the lapping equipment and tools used, including:</p> <ul style="list-style-type: none"> - Machine make/model or manual tooling details. - Photographs of the lapping station. - Maintenance and calibration records (if applicable). 	<p>0: Totally deficient or non-responsive</p> <p>2: Not submitting one or several of the following required documents, or submitting any of the following documents while not meeting the requirements of Q5:</p> <ul style="list-style-type: none"> - Documented Lapping Procedure - Lapping Equipment Description - Evidence of Personnel Competency <p>4: All documents satisfactory and the correct surface finish as is specified.</p> <p>5: All documents are submitted and meet the requirements of Q5.</p>	20%

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No.	Criteria Description	Scoring (240-168966153)	Weight
	<p>Evidence of Personnel Competency</p> <ul style="list-style-type: none"> - Description of technical personnel experience and training relevant to safety valve lapping. <p>Visual Inspection and Verification Method</p> <ul style="list-style-type: none"> - Details of how surface flatness and sealing integrity are verified after lapping (e.g., optical flat, micrometre checks, leak tests). - Associated acceptance limits or tolerances followed. 		
Q-6	<p>Safety Valve Seat Tightness Test</p> <p>Tenderers must submit the following documentation as evidence of their capability to perform accurate and standards-compliant seat tightness testing on safety valves:</p> <p>Documented Safety Valve Seat Tightness Test Procedure</p> <p>A controlled seat tightness test procedure, applicable standard safety valve standards for seat tightness testing (ASME, EN). The procedure must include:</p> <ul style="list-style-type: none"> - Test medium (air, steam, or water). - Set pressure and allowable leak rates. - Leak detection method. - Pass/fail criteria and acceptance limits. <p>Testing Equipment Details</p> <p>Description of test bench or system used, including:</p> <ul style="list-style-type: none"> - Make and model. - Range and resolution of pressure gauges. - Calibration certificates (current) for all critical instruments, traceable to national standards (ISO 17025-accredited lab). <p>Sample Test Report</p> <p>A completed seat tightness test report from a previous job, including:</p> <ul style="list-style-type: none"> - Valve type, size, and serial number. - Test conditions (medium, temperature, pressure). - Leak measurement results and comparison with acceptance criteria. - Client sign-off. <p>Test Facility Photos (Optional but Preferred)</p> <p>Photographic evidence of the actual test setup and leak detection method in use, demonstrating familiarity and experience.</p>	<p>0: Totally deficient or non-responsive</p> <p>2: Not submitting one or several of the following required documents, or submitting any of the following documents while not meeting the requirements of Q6:</p> <ul style="list-style-type: none"> - Documented Safety Valve Seat Tightness Test Procedure - Testing Equipment Details - Sample Test Report <p>4: All documents satisfactory and the correct safety valve seat tightness test standard is referenced.</p> <p>5: All documents are submitted and meet the requirements of Q6.</p>	20%

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3.5 TET MEMBER RESPONSIBILITIES

Table 4: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3
M-1	X	X	X
M-2	X	X	X
M-3	X	X	X
Qualitative Criteria Number	TET 1	TET 2	TET 3
Q-1	X	X	X
Q-2	X	X	X
Q-3	X	X	X
Q-4	X	X	X
Q-5	X	X	X

3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.6.1 Risks

Table 5: Acceptable Technical Risks / Exceptions / Conditions

Risk	Description
1.	M-1: In-house safety valve training will be acceptable, however the trainer should their experience and qualifications as well.
2.	M-3: Two attempts will be allowed during the contractor site visit for pressure setting (21MPa) , and seat tightness test to achieve compliance with the tolerance and leakage acceptance criteria specified by PD5500 and applicable standards.

Table 6: Unacceptable Technical Risks / Exceptions / Conditions

Risk	Description
1.	M-1: The tenderer is not the company that executes the safety valve refurbishment, subcontracting of the safety valve refurbishment activities will not be allowed.




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2.	M-3: During the site visit, should the tenderer not be able to set the safety valve lift pressure at 21MPa and perform a seat tightness test to achieve compliance with the tolerance and leakage acceptance criteria specified by PD5500 and applicable standards after the 2 nd attempt, the company will not be considered for the tender as mandatory criteria M-3 will not be satisfied.
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4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation	
Abel Rudman	Senior Engineer	 02/07/2025
Selelepoo Ntoampe	Senior Advisor – Technical Support	 03/07/2025
Paul Le Grange	System Engineer	 02/07/2025

5. REVISIONS

Date	Rev.	Compiler	Remarks
June 2025	04	A Rudman	After the failed tender, the document was revised to include extended descriptions of the required technical tender returnable.
December 2022	03	A Rudman	Strategy updated to include TET member responsibilities and technical risks
November 2022	02	A Rudman	Strategy updated to meet the requirements of the revised SOW.
October 2022	01	A Rudman	First revision for review

6. DEVELOPMENT TEAM

A. Rudman
S. Ntoampe
P. Le Grange

7. ACKNOWLEDGEMENTS

Mike Amir, for his valuable input into revision 3 of this document.

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