

	Strategy	Engineering
---	----------	-------------

Title:	Condensate, Feed Heating Systems Inspection and Repairs During Outages including Statutory Testing of Pressure Vessels for 5 years	Document Identifier:	KUS-20241108
		Alternative Reference Number:	Not Applicable
		Area of Applicability:	Turbine Plant
		Functional Area:	Outage Management
		Revision:	2
		Total Pages:	14
		Next Review Date:	December 2029
		Disclosure Classification:	Controlled Disclosure

Compiled by	Supported by	Functional Responsibility	Authorized by
.....
Date:	Date:	Date:	Date:
.....

Content	Page
1. Introduction.....	3
2. Supporting Clauses	3
2.1 Scope.....	3
2.1.1 Purpose.....	3
2.1.2 Applicability	3
2.1.3 Effective date.....	3
2.2 Normative/Informative References	3
2.2.1 Normative.....	4
2.2.2 Informative.....	4
2.3 Definitions	4
2.3.1 Classification	4
2.4 Abbreviations	4
2.5 Roles and Responsibilities	4
2.6 Process for Monitoring.....	5
2.7 Related/Supporting Documents.....	5
3. TENDER TECHNICAL EVALUATION STRATEGY	5
3.1 TET Members	5
3.2 Mandatory Evaluation Criteria	5
3.3 Qualitative Evaluation Criteria	6
3.4 TET Members	11
3.5 Foreseen Acceptable / Unacceptable Qualifications.....	12
3.5.1 Risks	12
3.5.2 Exceptions / Conditions	13
4. Authorisation	14
5. Revisions.....	14
6. Development team	14
7. Acknowledgements	14

Tables

Table 1: TET Members	5
Table 2: Mandatory Technical Evaluation Criteria	6
Table 3: Qualitative Evaluation Criteria Scoring Table	6
Table 4: Qualitative Technical Evaluation Criteria	7
Table 6: TET Member Responsibilities.....	11
Table 7: Acceptable Technical Risks.....	12
Table 8: Unacceptable Technical Risks	12
Table 9: Acceptable Technical Exceptions / Conditions	13
Table 10: Unacceptable Technical Exceptions / Conditions	13

CONTROLLED DISCLOSURE

1. Introduction

Kusile Power Station Management has taken a decision to outsource Condensate and Feed Heating systems inspections, repairs and testing of pressure vessels during outages to a suitably qualified, experienced, and well-established Contractor for 5 years on an “as and when required” basis. The initiation of this contract aims to establish comprehensive maintenance, welding, repair, inspection and testing services to ensure the optimal functioning of the power station during outage periods.

To find such a Contractor and initiate the contract, a Technical Evaluation Strategy (TES) must be established and put in place as per 240-168966153, Generation Tender Technical Evaluation Procedure [1]. The TES defines the mandatory and qualitative evaluation criteria which will be used to assess tenders during the technical evaluation process.

Technical evaluations are a critical activity performed by technical representatives, end users, engineers, or technical specialists in accordance with the Eskom Procurement and Supply Chain Management Policy, document number 32-1033 [2], and Eskom Procurement and Supply Management Procedure, document number 32-1034 [3], during the tender process.

The TES described herein ensures that the tender technical evaluation process, performed by the Technical Evaluation Team (TET), is compliant, consistent, fair, transparent, and impartial.

2. Supporting Clauses

2.1 Scope

2.1.1 Purpose

The purpose of this document is to provide a consistent approach to procedures and principles to be followed during the technical evaluation process for Condensate, Feed Heating Systems Inspection and Repairs During Outages including Statutory Testing of Pressure Vessels for 5 years. This includes defining the roles and responsibilities, reporting requirements, TET members, mandatory technical evaluation criteria, qualitative technical evaluation criteria, acceptable and unacceptable risks, exception and conditions.

2.1.2 Applicability

This document shall apply to throughout Eskom Generation – Kusile Power Station for the Condensate, Feed Heating Systems Inspection and Repairs During Outages including Statutory Testing of Pressure Vessels for 5 years Scope of Work (SOW).

2.1.3 Effective date

This document shall be effective upon authorisation.

2.2 Normative/Informative References

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

CONTROLLED DISCLOSURE

2.2.1 Normative

- [1] 240-168966153 Generation Tender Technical Evaluation Procedure
- [2] 32-1033 Eskom Procurement and Supply Chain Management Policy
- [3] 32-1034 Eskom Procurement and Supply Management Procedure
- [4] 240-106871290 Technical Evaluation Team Member Appointment Letter Template
- [5] KUS-20240726 Condensate, Feed Heating Systems Inspection and Repairs During Outages including Statutory Testing of Pressure Vessels for 5 years
- [6] 240-106628253 Standard for Welding Requirements on Eskom Plant

2.2.2 Informative

- [7] ISO 9001 Quality Management System

2.3 Definitions

Definition	Explanation
Tender (Bid)	Refers to a written or electronic offer, tender, bid, quotation or proposal made by a supplier, in a prescribed form according to the issued enquiry, for the provision of assets, goods, works or services, and/or disposals (Investment Recoveries).

2.3.1 Classification

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

2.4 Abbreviations

Abbreviation	Explanation
AIA	Authorised Inspection Authority
(CV)	Curriculum Vitae
IWE	International Welding Engineer
IWT	International Welding Technologist
NDT	Non-Destructive Testing
QCP	Quality Control Plans
QTEC	Qualitative Technical Evaluation Criteria
SOW	Scope of Work
TES	Technical Evaluation Strategy
TET	Technical Evaluation Team
WPS	Welding Procedure Specifications
WPQR	Welding Procedure Qualification Record

2.5 Roles and Responsibilities

TET member: The delegated technical representatives/end users/engineers/technical specialists who are responsible to review and evaluate technical aspects of the tender documentation as per the Tender TES. The TET members need to comply with the requirements as stipulated in document 240-106871290, Technical Evaluation Team Member Appointment Letter Template [4].

CONTROLLED DISCLOSURE

2.6 Process for Monitoring

Not Applicable.

2.7 Related/Supporting Documents

- [8] 240-53716746 Tender Technical Evaluation Report Template
- [9] 240-53716712 Tender Technical Evaluation Results Form Template
- [10] 240-53716726 Tender Technical Evaluation Scoring Form Template

3. TENDER TECHNICAL EVALUATION STRATEGY

3.1 TET Members

The delegated representatives who are responsible to review and evaluate technical aspects of the tender documents as per the Tender TES are listed on Table 1. The list and details of the TET members shall not be published as part of the market enquiry.

Table 1: TET Members

TET Number	Name and Surname	Designation
TET 1		
TET 2		
TET 3		
TET 4		

3.2 Mandatory Evaluation Criteria

All received tender responses shall be evaluated on the compliance to the defined mandatory evaluation criteria shown on Table 2. This mandatory criterion is a “must meet” criteria and is assessed on a Yes/No basis. An assessment of ‘No’ against any criterion shall technically disqualify the Contractor and shall not be further evaluated against Qualitative Criteria.

These criteria shall be clearly defined and included in the market enquiry to avoid subjectivity, ambiguity or bias during the technical evaluation process.

CONTROLLED DISCLOSURE

Table 2: Mandatory Technical Evaluation Criteria

No.	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for Use of Criteria
1	The Tenderer must submit a valid ISO 3834-2 certificate clearly indicating the following design codes are included in the scope of accreditation: <ul style="list-style-type: none">• EN 13445 Unfired Pressure Vessels• EN 13480 Metallic Industrial Piping• ASME VIII Rules for Construction of Pressure Vessels• ASME B31.1 Power Piping or ASME B31.3 Process Piping	Section 3.12.1 point 1 [5]	Ensure Contractors are certified and know the requirements of the certification process to limit the risk of a non-compliant Contractor.

3.3 Qualitative Evaluation Criteria

Qualitative Evaluation Criteria are weighted evaluation criteria used to identify the highest technically ranked tenderer after all the Mandatory Evaluation Criteria have been met. The Qualitative Evaluation Criteria are weighted to reflect the relevant importance of each criterion.

The scoring of qualitative criteria shall be based on the degree of achievement by the tenderer to meet the technical requirements. A score shall be allocated as per Table 3, for each technical qualitative criterion. The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is 70%.

The criteria outline on Table 4 must be clearly defined and incorporated into the market inquiry to ensure objectivity, clarity, and impartiality during the technical evaluation process.

Table 3: Qualitative Evaluation Criteria Scoring Table

Score	(%)	Definition
5	100	COMPLIANT <ul style="list-style-type: none">• Meet technical requirement(s) AND;• No foreseen technical risk(s) in meeting technical requirements.
4	80	COMPLIANT WITH ASSOCIATED QUALIFICATIONS

CONTROLLED DISCLOSURE

		Meet technical requirement(s) with; <ul style="list-style-type: none">• Acceptable technical risk(s) AND/OR;• Acceptable exceptions AND/OR;• Acceptable conditions.
2	40	NON-COMPLIANT <ul style="list-style-type: none">• Does not meet technical requirements(s) AND/OR;• Unacceptable technical risk(s) AND/OR;• Unacceptable exceptions AND/OR;• Unacceptable conditions.
0	0	TOTALLY DEFICIENT OR NON-RESPONSIVE
Note 1: The scoring table does not allow for scoring of 1 and 3.		
Note 2: Foreseen acceptable and unacceptable risk(s), exceptions and conditions shall be unambiguously defined in the relevant Tender TES.		

Table 4: Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
--	--	--	------------------------	----------------------------

CONTROLLED DISCLOSURE

1.	<p>Contractor to submit copies of certificate of repairs for previous work undertaken on SANS 347 Cat II, III, IV vessels or steam generators countersigned by the AIA. A minimum of three certificates shall be provided and not older than five years.</p> <p>Each submitted certificate of repair shall be accompanied by contactable details of the client and AIA. Contact details should include contact number, email, name and surname.</p> <table><tr><th>Description</th><th>Score</th></tr><tr><td>Contractor makes submissions that fully comply with the requirements.</td><td>5</td></tr><tr><td>Contractor deviates from the requirements by submitting only two copies of the certificate of repair of SANS 347 Cat II, III, IV vessels or steam generators countersigned by the AIA not older than five years.</td><td>4</td></tr><tr><td>Contractor deviates from the requirements by submitting only one copy of the certificate of repair of SANS 347 Cat II, III, IV vessels or steam generators countersigned by the AIA not older than five years.</td><td>2</td></tr><tr><td>Contractor non-responsive.</td><td>0</td></tr></table>	Description	Score	Contractor makes submissions that fully comply with the requirements.	5	Contractor deviates from the requirements by submitting only two copies of the certificate of repair of SANS 347 Cat II, III, IV vessels or steam generators countersigned by the AIA not older than five years.	4	Contractor deviates from the requirements by submitting only one copy of the certificate of repair of SANS 347 Cat II, III, IV vessels or steam generators countersigned by the AIA not older than five years.	2	Contractor non-responsive.	0	Section 3.12.2, point 1 [5]	40	
Description	Score													
Contractor makes submissions that fully comply with the requirements.	5													
Contractor deviates from the requirements by submitting only two copies of the certificate of repair of SANS 347 Cat II, III, IV vessels or steam generators countersigned by the AIA not older than five years.	4													
Contractor deviates from the requirements by submitting only one copy of the certificate of repair of SANS 347 Cat II, III, IV vessels or steam generators countersigned by the AIA not older than five years.	2													
Contractor non-responsive.	0													
2.	<p>Contractor to submit qualified WPS and WPQR signed off by IWE/IWT and AIA for the following materials:</p> <ul style="list-style-type: none">15NiCuMoNb5-6-4 or WB36 (thickness up to 40 mm)10CrMoVNb9-1 up to 20 mm thicknessDissimilar Material Joint for Stainless Steel (Group 8.2) to Carbon Steel (Group 1.2) up to 15 mm wall thickness <table><tr><th>Description</th><th>Score</th></tr><tr><td>Contractor makes submissions that fully comply with the requirements.</td><td>5</td></tr></table>	Description	Score	Contractor makes submissions that fully comply with the requirements.	5	Section 3.12.2, point 2 [5]	30							
Description	Score													
Contractor makes submissions that fully comply with the requirements.	5													

CONTROLLED DISCLOSURE

	Contractor submits WPS and WPQR signed off by the IWE/IWT and AIA for only two of the following materials: <ul style="list-style-type: none"> • 15NiCuMoNb5-6-4 or WB36 (thickness up to 40 mm) • 10CrMoVNb9-1 up to 20 mm thickness • Dissimilar Material Joint for Stainless Steel (Group 8.2) to Carbon Steel (Group 1.2) up to 15 mm wall thickness 	4			
	Contractor submits WPS and WPQR signed off by the IWE/IWT and AIA for only one of the following materials: <ul style="list-style-type: none"> • 15NiCuMoNb5-6-4 or WB36 (thickness up to 40 mm) • 10CrMoVNb9-1 up to 20 mm thickness • Dissimilar Material Joint for Stainless Steel (Group 8.2) to Carbon Steel (Group 1.2) up to 15 mm wall thickness 	2			
	Contractor non-responsive.	0			

CONTROLLED DISCLOSURE

3.	<p>The Contractor to return a site and engineering activities organogram. Including Curriculum Vitae (CVs), qualifications and accreditation of <u>key personnel</u> listed in section 8.2 to 8.4 of 240-106628253, Standard for Welding Requirements on Eskom Plant [6].</p> <table><tr><th>Description</th><th>Score</th></tr><tr><td>Contractor makes submissions that fully comply with the requirements.</td><td>5</td></tr><tr><td>Contractor non-responsive.</td><td>0</td></tr></table>	Description	Score	Contractor makes submissions that fully comply with the requirements.	5	Contractor non-responsive.	0	Section 3.12.2, point 3 [5]	15			
Description	Score											
Contractor makes submissions that fully comply with the requirements.	5											
Contractor non-responsive.	0											
4.	<p>The Contractor must submit evidence of current or previously completed in-situ leak tests within the last five years. This includes procedures, completed QCPs, leak test certificates for performing leak tests on one pressure vessel, heat exchanger, or tank similar to those described in section 3.1.2. of the specification [5].</p> <table><tr><th>Description</th><th>Score</th></tr><tr><td>Contractor makes submissions that fully comply with the requirements.</td><td>5</td></tr><tr><td>Contractor submitting evidence of completed leak tests older than five years. This includes procedures, calibration certificate of equipment used, completed QCPs, leak test certificates for performing leak tests on one pressure vessel, heat exchanger, or tank similar to those described in section 3.1.2. of the specification [5].</td><td>2</td></tr><tr><td>Contractor non-responsive.</td><td>0</td></tr></table>	Description	Score	Contractor makes submissions that fully comply with the requirements.	5	Contractor submitting evidence of completed leak tests older than five years. This includes procedures, calibration certificate of equipment used, completed QCPs, leak test certificates for performing leak tests on one pressure vessel, heat exchanger, or tank similar to those described in section 3.1.2. of the specification [5].	2	Contractor non-responsive.	0	Section 3.12.2, point 4 [5]	15	
Description	Score											
Contractor makes submissions that fully comply with the requirements.	5											
Contractor submitting evidence of completed leak tests older than five years. This includes procedures, calibration certificate of equipment used, completed QCPs, leak test certificates for performing leak tests on one pressure vessel, heat exchanger, or tank similar to those described in section 3.1.2. of the specification [5].	2											
Contractor non-responsive.	0											
			TOTAL: 100									

CONTROLLED DISCLOSURE

3.4 TET Members

Table 5: TET Member Responsibilities

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

CONTROLLED DISCLOSURE

3.5 Foreseen Acceptable / Unacceptable Qualifications

3.5.1 Risks

Table 6: Acceptable Technical Risks

Risk	Description
1	QTEC 1: Contractor deviates from the requirements by submitting only two copies of the certificate of repair of SANS 347 Cat II, III, IV vessels or steam generators countersigned by the AIA not older than five years.
2	QTEC 2: Contractor submits WPS and WPQR signed off by the IWE/IWT and AIA for only two of the following materials: [1] 15NiCuMoNb5-6-4 or WB36 (thickness up to 40 mm) [2] 10CrMoVNb9-1 up to 20 mm thickness [3] Dissimilar Material Joint for Stainless Steel (Group 8.2) to Carbon Steel (Group 1.2) up to 15 mm wall thickness

Table 7: Unacceptable Technical Risks

Risk	Description
1	QTEC 1: Contractor deviates from the requirements by submitting only one copy of the certificate of repair of SANS 347 Cat II, III, IV vessels or steam generators countersigned by the AIA not older than five years.
2	QTEC 2: Contractor submits WPS and WPQR signed off by the IWE/IWT and AIA only one of the following materials: [1] 15NiCuMoNb5-6-4 or WB36 (thickness up to 40 mm) [2] 10CrMo910 up to 20 mm thickness [3] Dissimilar Material Joint for Stainless Steel (Group 8.2) to Carbon Steel (Group 1.2) up to 15 mm wall thickness
3	QTEC4: Contractor submitting evidence of completed leak tests older than five years. This includes procedures, calibration certificate of equipment used, completed QCPs, leak test certificates for performing leak tests on one pressure vessel, heat exchanger, or tank similar to those described in section 3.1.2. of the specification [5].

CONTROLLED DISCLOSURE

3.5.2 Exceptions / Conditions

Table 8: Acceptable Technical Exceptions / Conditions

Risk	Description
1	N/A

Table 9: Unacceptable Technical Exceptions / Conditions

Risk	Description
1	N/A

CONTROLLED DISCLOSURE

4. Authorisation

This document has been seen and accepted by:

Name	Designation	Signature

5. Revisions

Date	Rev.	Compiler	Remarks
April 2025	1		First Issue
September 2025	2		Removal of ISO certificates and reference letters as gatekeepers.

6. Development team

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

7. Acknowledgements

CONTROLLED DISCLOSURE