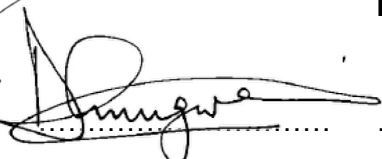
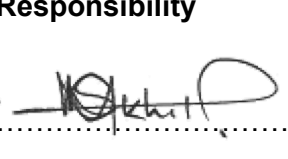
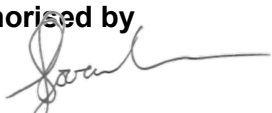


 Eskom	TE. Strategy	Engineering
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Title:	Camden PS Public Address (PA) System Upgrade Phase 2 Project Tender Technical Evaluation Strategy	Unique Identifier:	383-CMDN-AABZ31-SG0003-1
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Compiled by	Supervised By	Functional Responsibility	Authorised by
			
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EDWL: C&I Engineer	C&I Engineer	C&I Engineering Manager	Engineering Group Manager
Date: 28/05/2025	Date: 29 / 05 / 2025	Date: 2025/05/30	Date: 30-05-2025

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1. INTRODUCTION

The current Public Address (PA) system at Camden Power Station is deficient and this poses a Safety risk to all employees at Camden Power station. During Camden Return-To-Service (RTS) the project Phase 1 of the PA address system installation was not installed on all the areas and over time there have been new developments (i.e. new ash dam) which required a PA system for emergency addresses, evacuations and general public announcements. PA system assessment done by Eskom Telecommunication revealed that the current PA system installed was not EN54 (European Norm Standard) compliant, hence not compliant with the current PA System Eskom standard. The following has been deemed to be non-compliant.

- The Main Head End Equipment had no certificates to proof compliance to EN54
- The bi-directional and horn speakers are non-compliant as per EN-54 requirements as they do not have ceramic terminals.
- The ceiling speakers non-compliant, they do not have a fire-dome, with ceramic connectors and thermal fuses
- Cable not fire retardant and did not conform to cabling standards for fire-alarm evacuation standards which require the cable to maintain integrity for a minimum period of 30 minutes if exposed to 830° of extreme heat or fire at the distance of 1 metre away from the cable.

This is a public address system that is needed during emergencies and general public announcements. The project entails the design, supply, installation and commissioning of the PA System terminal equipment, distributed power amplifiers, power cabling and associated racking. Phase 1 of the project was completed with a compliant PA system. This is phase 2 of the same project originating from phase 1.

2. SUPPORTING CLAUSES

2.1 SCOPE

The project execution was divided into two phases as illustrated below in table 1.

Table 1: Project Execution Phases

PHASE	DESCRIPTION
Phase 1	Complete detailed design for phase 1, Installation on the new areas interfacing to the new admin building PA System Manager.
Phase 2	Complete detailed design for phase 2 installation on all the remain areas (Plant area, new ash dam, and coal weight bridge) interfacing to the existing phase 1 PA system and PA system manager at the admin building. Installation of PA System Terminal Equipment (Horn, Ceiling & Box speakers) on all area that are without PA System at Camden power station.

The objective of the project is to prioritise the remaining areas (left during phase 1 or developed after phase 1 project) that do not have PA system coverage.

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Phase 1

Scope of Work (SOW) includes the following:

- Detailed Design for the complete EN 54 compliant PA System inclusive of the optic fibre network and terminal equipment for both Phase 1 Scope of work.
- Supply, Install and commission an Optic Fibre Network dedicated for Building Management Systems (BMS) which include systems such as PA System, CCTV Camera System and Fire Detection will use.
- Supply, Install and commission all new terminal equipment (Speakers & amplifiers) that are EN54 compliant, including associated compliant cabling on all the new areas
- Interface all terminal equipment to the Admin Building New PA System Manager

Phase 1 areas as indicated in Table 2 are shown in the Figure 1 & 2 below



Figure 1: Camden Site Layout 1

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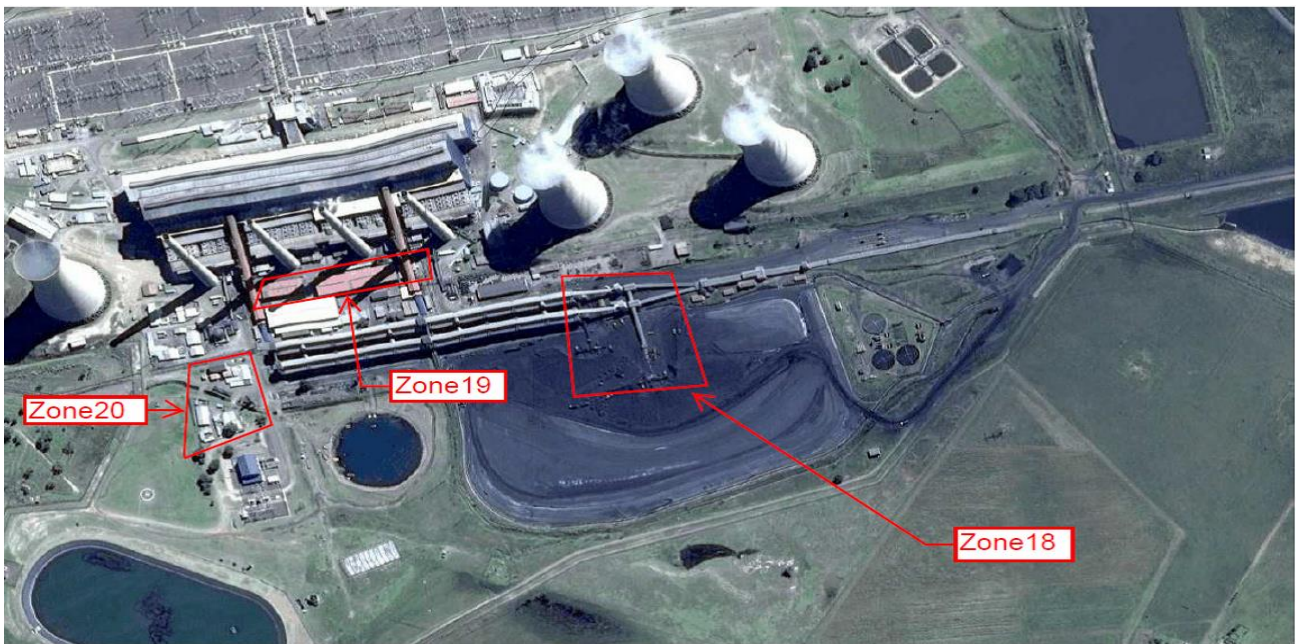


Figure 2: Camden Site Layout 2

Phase 2

Scope of Work (SOW) entails the design, supply, installation and commissioning of EN54 terminal equipment and amplifiers on the entire plant and the current existing buildings that do not have PA system within Camden power station areas.

- Detailed Design for the complete EN 54 compliant PA System inclusive of the optic fibre network and terminal equipment for Phase 2 Scope of work.
- Supply, Install and commission a Fibre Optic Network dedicated for Building Management Systems (BMS) which include systems such as PA System, CCTV Camera System and Fire Detection.
- Supply, Install and commission all new terminal equipment (Speakers & amplifiers) that are EN54 compliant, including associated compliant cabling on all the new areas.
- Interface all terminal equipment to the Admin Building Phase 1 PA System Manager.

2.1.1 Purpose

The purpose of this tender technical evaluation strategy is to define the Mandatory Evaluation Criteria, Qualitative Evaluation Criteria and Technical Evaluation Team (TET) member responsibilities for tender technical evaluation of the PA System Upgrade Project. The technical evaluation strategy serves as basis for the tender technical evaluation process.

2.1.2 Applicability

This document is applicable to Camden Power Station PA system upgrade Phase 2 project.

2.2 NORMATIVE/INFORMATIVE REFERENCES

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

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2.2.1 Normative

- [1] 240-48929482: Tender Technical Evaluation Procedure.
- [2] 32-1034: Eskom Procurement Policy.
- [3] 383-CMDN-AABBZ28-SP0004-15: Camden PS Public Address System Upgrade Project Phase 2 Technical Specification.

2.3 DEFINITIONS

N/A

2.3.1 Classification

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

2.4 ABBREVIATIONS

Table 2: List of Abbreviations

Abbreviation	Description
BGM	Background Music
BMS	Building Management Systems
C&I	Control and Instrumentation
CMD	Construction Management Department
CoC	Certificate of Compliance
CoE	Centre Of Excellence
DoL	Department of Labour
EDWL	Engineering Design Work Lead
ECSA	Engineering Council of South Africa
EN	European Norm
ISO	International Standard
PA	Public Address
PS	Power Station
RTS	Return To Service
SOW	Scope Of Work
TET	Technical Evaluation Team

2.5 ROLES AND RESPONSIBILITIES

Table 3: ROLES AND RESPONSIBILITIES

Compiler	The document compiler is responsible for ensuring that this document is up-to-date and that this document is not a duplication of an existing documentation, regarding the document's objectives and content.
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Supervisor	Supervises the compiler to ensure that the document is compiled professionally, and all necessary requirements are met.
Functional Responsibility	The Functional Responsible Person shall determine if the document is fit for purpose, before the document is submitted for authorisation.
Authoriser	The document authoriser is a duly delegated person with the responsibility to review the document for alignment to business strategy, policy, objectives and requirements. He/she shall authorise the release and application of the document.
Lead Discipline Engineers	Provide input to the technical tender evaluation strategy and associated engineering activities.
Configuration Management Lead	Is accountable for ensuring that the engineering documentation, engineering systems and databases are correctly configured. As part of this role, the Configuration Practitioner is responsible for the development of the configuration management plan; configuration and management of the PBS and the management of plant item Tags.

2.6 PROCESS FOR MONITORING

The primary process for monitoring will be governed by Design Review Procedure (240-53113685), this entails assuring that the design achieves the requirements set out in this document. Any changes to this document will be performed as per Project Engineering Change Management Procedure (240-53114026).

2.7 RELATED/SUPPORTING DOCUMENTS

Please refer to Section 2.2.

3. TENDER TECHNICAL EVALUATION STRATEGY

3.1 TECHNICAL EVALUATION THRESHOLD

Disclaimer: Please note that where certified copies of documents are not provided, certified copies of documents will be requested from all technically suitable suppliers. Suppliers will be given 7 working days to respond with the certified copies of documents once requested. The evaluation criteria will be based upon a two-step process, Mandatory and Qualitative.

3.1.1 Mandatory Technical Evaluation Criteria

Mandatory Technical Evaluation Criteria (gatekeepers) are a 'must meet' criteria. These criteria shall not be weighted or point scored but shall be assessed on a Yes/No basis as to whether or not the criteria are met. An assessment of 'No' against any criterion shall technically disqualify the tenderer and shall not be further evaluated against Qualitative Criteria.

3.1.2 Qualitative Technical Evaluation Criteria

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

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

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Disclaimer: Only technical suitable if total score is $\geq 70\%$. Should all suppliers not meet the minimum threshold of 70%, Eskom reserves the right to consider suppliers that obtained the score of 60% to 69%.

Disclaimer: Eskom will require the successful bidder to go through the VX3000 hardware & programming courses/training and receive the certification of competency before the contract can be awarded.

The following scoring method will be used:

Table 4: Technical Scoring Methodology

SCORE	PERCENTAGE (%)	DESCRIPTION
5	100	COMPLIANT - Meet the technical requirement(s) AND, - No foreseen technical risk(s) in meeting technical requirements
4	80	COMPLIANT WITH ASSOCIATED QUALIFICATIONS - Meet the technical requirement(s) with, - Acceptable technical risks AND/OR, - Acceptable exceptions AND/OR, - Acceptable conditions.
2	40	NON-COMPLIANT - Does not meet the technical requirement(s) AND/OR Unacceptable technical risk(s) AND/OR, - Unacceptable exceptions AND/OR, - Unacceptable conditions.
0	0	TOTALLY DEFICIENT/NON-RESPONSIVE

3.2 TET MEMBERS

The following are TET members:

Table 5: TET Members

TET number	TET Member Name	Designation
TET 1	Nkos'khona Kunene	Project EDWL & C&I LDE
TET 2	Douglas Mugweni	C&I System Engineer
TET 3	Muzi Nkosi	C&I Technician (End User)
TET 4	Riaan Grobler	LDE Electrical Engineer
TET 5	Siyabonga Ndlovu	Electrical System Engineer
TET 6	Peski Ntshangase	Projects Manger-Camden Power Station

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3.3 MANDATORY TECHNICAL EVALUATION CRITERIA

Table 6: Mandatory Technical Evaluation Criteria

	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1.	Has the Tenderer confirmed that all major equipment and devices offered are of proven technology; and are compliant to ESKOM Standards (Tech. Spec.) EN54 standard, and SANS 7240-16?	• Tender Returnable: A confirmation letter is to be provided by the tenderer and the list of equipment to be provided • Tender Returnable: Schedule A: Technical Compliance.	a) Credibility of equipment and devices offered. b) Compliance: 240-64720986 Emergency Preparedness Public Address System for Large Area Deployment
2.	Does the tenderer has at least 1 Professional Registered (ECSA or equivalent) lead Electrical/Electronic Engineer/Technologist.	• Qualifications/Certifications confirmation of Professional registration with ECSA of lead Electrical/Electronic Engineer/Technologist.	a) To ensure that the new PA system work will be executed by a technically sound professional engineer and ensure interface with existing PA system

3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

The weight for the technical review will be 100% with a minimum threshold of 70% and will be based on the following:

Table 7: Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
1.	C&I Works Design and Construction Supervision			30	
	1.1	At least 1 Professional Registered Electrical/Electronic lead Engineer/Technologist with a track record of 5 completed projects as a minimum; for design, construction, and commissioning of Emergency Evacuation/Public Address Systems similar to VX3000 series and of similar scope and size. NB: Same person(s) in 3.3 (2)	Tender returnable – Reference letters with contactable individuals for the 5 completed projects and a CV for the lead Engineer/Technologist.		20
	1.2	At least 1 Electrical/Electronic engineering technician (NQF Level 6) with a track record of 5 completed projects as a minimum; for construction, and commissioning of Emergency Evacuation/Public Address Systems similar to VX3000 series and of similar scope and size.	Tender returnable – Valid copy of qualifications/Certificates, Reference letters with contactable individuals for the 5 completed projects and a CV for the engineering technician.		10
2.	Electrical Works Design and Construction Supervision			30	
	2.1	Professional Registered Electrical Technologist/ Engineer with a track record of 5 completed projects as a minimum; for design, construction, and commissioning of Electrical Systems (i.e. UPS and Electrical Cabling)	Tender returnable – Valid copy of qualifications/Certificates, Reference letters with contactable individuals for the 5 completed projects and a CV for the Electrical Technologist/ Engineer		20
	2.2	Registered Electrician with Department of Labour (DoL) as Master Installation Electrician or Installation Electrician in terms of Electrical	Tender returnable – CV and Proof of Registration certificate for Master installation electrician or installation electrician to be submitted with		10

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		Installation Regulations in order to certify the electrical installation by issuing the Certificate of Compliance (CoC) on the modified installations.	reference to 5 completed projects for design, construction, and commissioning of Electrical systems.		
3.	Project Management			30	
	3.1	Project Work Method Statement - A statement from the Contractor detailing how they plan to execute the work. What equipment and resources will be used and how they will be utilised by the Contractor to complete the work successfully.	Tender returnable – Work Method Statement Narrative.		20
	3.2	<u>Proposed work plan</u> • Indicating intent to undertake full scope of work • Activities divided up realistically in schedule. • Timelines realistic for execution of activity.	Tender returnable – (Preliminary Project schedule showing key deliverable dates and Proposed Work plan indicating intent to undertake full scope of work)		10
4.	Company Experience			10	
	4.1	Relevant Company experience related to the works with contactable references. List a minimum of 3 projects of similar scope and size with contactable references.	Tender returnable – List of projects and contacts.		10
					TOTAL: 100

3.5 THE SCORING CRITERIA

Table 8: Mandatory Technical Evaluation Criteria Scoring

Mandatory Technical Evaluation Criteria		Meet (YES / NO)	Motivation & Comments
1.	Has the Tenderer confirmed that all major equipment and devices offered are of proven technology; and are compliant to ESKOM Standards (Tech. Spec.) EN54 standard, and SANS 7240-16?		
2.	Does the tenderer has at least 1 Professional Registered (ECSA or equivalent) lead Electrical/Electronic Engineer/Technologist.		
<i>Note: A response of "NO" to any of the Mandatory Evaluation Criteria would result in a "NO". Result</i>			

Table 9: Qualitative Technical Evaluation Criteria Scoring

	Qualitative Technical Criteria Description		Score [0, 2, 4, 5]	Scoring Criteria
1.	C&I Works Design and Construction Supervision			30
	1.1	At least 1 Professional Registered Electrical/Electronic lead Engineer/Technologist with a track record of 5 completed projects as a minimum; for design, construction, and		The design (where required) in terms of this Contract is to be executed by a qualified professional Technologist/Engineer who is a member of Engineering Council of South Africa (ECSA) or equivalent international acknowledged qualification.

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		commissioning of Emergency Evacuation/Public Address Systems similar to VX3000 series and of similar scope and size. NB: Same person(s) in 3.5 (2)		5 = 5 or more completed projects. 4 = At least 3 but less than 5 completed projects. 2 = At least 1 but less than 3 completed projects. 0 = Less than 1 completed project.
	1.2	At least 1 Electrical/Electronic engineering technician (NQF Level 6) with a track record of 5 completed projects as a minimum; for construction, and commissioning of Emergency Evacuation/Public Address Systems similar to VX3000 series and of similar scope and size.		The design (where required) in terms of this Contract is to be executed by a qualified professional Technologist/Engineer who is a member of Engineering Council of South Africa (ECSA) or equivalent international acknowledged qualification. 5 = Formal diploma qualification or equivalent international acknowledgement and has 5 or more completed projects. 4 = Formal diploma qualification or equivalent international acknowledged qualification and has at least 3 but less than 5 completed projects. 2 = Formal diploma qualification or equivalent international acknowledged qualification and has at least 1 but less than 3 completed projects. 0 = Has less than 1 completed project and no formal diploma qualification or equivalent international acknowledged qualification.
2.	Electrical Works Design and Construction Supervision			30
	2.2	Professional Registered Electrical Technologist/Engineer with a track record of 5 completed projects as a minimum; for design, construction, and commissioning of Electrical Systems (i.e. UPS and Electrical Cabling)		The design (where required) in terms of this Contract is to be executed by a qualified professional Technologist/Engineer who is a member of Engineering Council of South Africa (ECSA) or equivalent international acknowledged qualification. 5 = Formal BSc/Btech qualification or equivalent international acknowledgement and has 5 or more completed projects. 4 = Formal BSc/Btech qualification or equivalent international acknowledged qualification and has at least 3 but less than 5 completed projects. 2 = Formal BSc/Btech qualification or equivalent international acknowledged qualification and has at least 1 but less than 3 completed projects.

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				0 = Has less than 1 completed project and no formal BSc/Btech qualification or equivalent international acknowledged qualification.
	2.3	Registered Electrician with Department of Labour (DoL) as Master Installation Electrician or Installation Electrician in terms of Electrical Installation Regulations in order to certify the electrical installation by issuing the Certificate of Compliance (CoC) on the modified installations with 5 years of working experience.		The electrical installation in terms of this Contract is to be executed by a qualified Master Installation Electrician or Installation Electrician who is registered with the Department of Labour (DoL) or equivalent international acknowledged qualification. 5 = Qualified Master Installation Electrician or Installation Electrician who is registered with the Department of Labour (DoL) or equivalent international acknowledgement and has 5 or more years working experience. 4 = Qualified Master Installation Electrician or Installation Electrician who is registered with the Department of Labour (DoL) or equivalent international acknowledgement but has 4 to 5 years working experience. 2 = Qualified Master Installation Electrician or Installation Electrician who is registered with the Department of Labour (DoL) or equivalent international acknowledgement, but less than 3 years working experience. 0 = Has less than 3 years' experience and no formal qualification or equivalent international acknowledged qualification.
3.	Project Management			30
	3.1	Project Work Method Statement - A statement from the Contractor detailing how they plan to execute the work. What equipment and resources will be used and how they will be utilised by the Contractor to complete the work successfully.		5 = Work Method Statement submitted with an execution plan, list of resources and equipment to be used and a narrative explaining how resources and equipment will be used to perform the work. 4 = Work Method Statement submitted missing one of the following: execution plan, list of resources, list of equipment or a narrative explaining how resources and equipment will be used to perform the work. 2 = Work Method Statement submitted missing no more than three of the following: execution plan, list of resources, list of equipment and/or a narrative explaining how resources and equipment will be used to perform the work. 0 = Work Method Statement is not part of the submission.

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	3.2	<u>Proposed work plan</u> • Indicating intent to undertake full scope of work • Activities divided up realistically in schedule. • Timelines realistic for execution of activity.		5 = All three conditions of proposed work plan have been met. 4 = Only two conditions of proposed work plan have been met. 2 = Only one condition of proposed work plan has been met. 0 = None of conditions of proposed work plan have been met.
4.	Company Experience			10
	4.1	Relevant Company experience related to the works with contactable references. List a minimum of 3 projects of similar scope and size with contactable references.		5 = Three or more references provided with contact details. 4 = Two references provided with contact details. 2 = One reference provided with contact details. 0 = No references part of submissions.
				TOTAL: 100

3.6 TET MEMBER RESPONSIBILITIES

Table 10: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3	TET 4	TET 5	TET 6
1	X	X	X	X	X	X
2	X	X	X	X	X	X
Qualitative Criteria Number	TET 1	TET 2	TET 3	TET 4	TET 5	TET 6
Control and Instrumentation Works Design and Construction Supervision						
1.1	X	X	X			
1.2	X	X	X			
Electrical Works Design and Construction Supervision						
2.1				X	X	
2.2				X	X	
Project Management						
3.1	X	X	X	X	X	X
3.2	X	X	X	X	X	X
Company Experience						
4.1	X	X	X	X	X	X

- X – Required Attendance
- O – Optional

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3.7 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.7.1 Risks

Table 11: Acceptable Technical Risks

Risk	Description
1.	Alternative solutions with the same or better performance

Table 12: Unacceptable Technical Risks

Risk	Description
1.	Exclusions of scope specified in the employers' requirements
2.	Unclear staff organogram. i.e. the staffing plan is weak not showing clarity in allocation of tasks and responsibilities
3.	Exclusion of a project specific schedule

3.7.2 Exceptions / Conditions

Table 13: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	Accept deviation with technical qualification

Table 14: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	Deviation without technical qualification not accepted

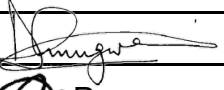
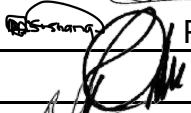
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4. AUTHORISATION

This document has been seen, authorised and/or accepted by:

Table 15: List of Authorisers

Name	Designation	Signature
Nkos'khona Kunene	Project EDWL & C&I LDE	
Douglas Mugweni	C&I System Engineer	
Muzi Nkosi	C&I Technician (End User)	 Pp
Riaan Grobler	LDE Electrical Engineer	
Siyabonga Ndlovu	Electrical System Engineer	
Peski Ntshangase	Projects Manger-Camden Power Station	

5. REVISIONS

Table 16: List of revisions

Date	Rev.	Compiler	Remarks
July 2019	1	D Tselane	First draft for review in Phase 1
August 2024	2	N. Kunene	Updating the TES to suit phase 2 implementation.: - Adding Phase 2 Scope of work. - Adding OEM certification as Mandatory and qualitative.
May 2025	3	N. Kunene	- Adding disclaimers for scores between 60% to 69%, and the process to obtain certified copies. - Removing the OEM training under mandatory requirements and putting it as a contractual obligation. - Rewording the mention of the OEM

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6. DEVELOPMENT TEAM

All Technical Evaluation Team Members, as listed in Table 5, were involved with the development of this document.

Table 17: Development Team

TET number	TET Member Name	Designation
TET 1	Nkos'khona Kunene	Project EDWL & C&I LDE
TET 2	Douglas Mugweni	C&I System Engineer
TET 3	Muzi Nkosi	C&I Technician (End User)
TET 4	Riaan Grobler	LDE Electrical Engineer
TET 5	Siyabonga Ndlovu	Electrical System Engineer
TET 6	Peski Ntshangase	Projects Manager-Camden Power Station

7. ACKNOWLEDGEMENTS

Acknowledgements go to the phase 1 TET members, for the development of the first TES that was used for phase 1 of the project and is the first revision of this TES. Table 14 below show a list of acknowledged individuals and their designations at the time of their contributions.

Table 18: List of Acknowledgements.

Phase 1 TET Member's Names	Designation
Didi Tselane	Project EDWL & C&I LDE
Francisco De Freitas	Plant LDE C&I CoE
Mondli Mkhize	Camden Electrical Senior Engineer
Tshepho Tshika	LDE Electrical CoE
Talifhani Mafanedza	Projects Manager-Camden Power Station
Nitheen Keshav	Projects Manager-Eskom Telecoms

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