

Title: **Tender Technical Evaluation
Strategy – Tutuka Power Station
Submerged Scraper Conveyor
Upgrade**

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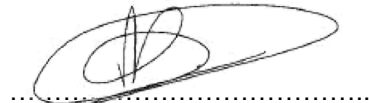
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1. INTRODUCTION

The change in coal quality at Tutuka Power Station (P.S.) has resulted in the Submerged Scraper Conveyor (SSC) being under designed for the current coarse ash production. Furthermore, high frequency of submerged idler wheel, scraper bar, chain and electrical related failures have resulted in SSCs being one of the major contributors to the station's Unplanned Capability Loss Factor (UCLF). SSCs are currently not only the primary cause of load losses, but are also now the cause of major secondary losses and damages due to ash ingress into the cooling water affecting the cooling towers and condensers.

This document covers the multi-disciplinary design team technical evaluation requirements that will be evaluated and how the evaluations will be scored, for the SSC Upgrade at Tutuka Power Station. The team members are listed and appointed in this document along with their responsibilities.

The document further describes the acceptable and unacceptable risks and qualifications and/or conditions.

The technical evaluation requirements consist of the following criteria:

- Mandatory Evaluation Criteria
- Qualitative Evaluation Criteria
- Acceptable/Unacceptable Qualifications

Supporting Clauses

1.1 SCOPE

The Tender Technical Evaluation Strategy will define the following technical evaluation criteria:

- Mandatory Evaluation Criteria
- Qualitative Evaluation Criteria
- TET Member Responsibilities
- Acceptable / Unacceptable Qualifications

Once the Technical Evaluation Strategy is approved no changes will be permitted to be made to the evaluation criteria.

1.1.1 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. The technical evaluation strategy serves as basis for the tender technical evaluation process.

1.1.2 Applicability

This document applies to the Tutuka Power Station Units 1-6 SSC Upgrade Project and is applicable to Tutuka Power Station Engineering Department.

This document will form the basis for the technical evaluation process, this is a multidiscipline project and thus this document is applicable to the multidisciplinary TET members.

1.2 NORMATIVE/INFORMATIVE REFERENCES

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

1.2.1 Normative

[1] 240-48929482: Tender Technical Evaluation Procedure

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[2] Eskom Procurement Policy and Supply Chain Management Procedure 32-1034

1.2.2 Informative

[3] Tutuka Power Station Submerged Scraper Conveyor Upgrade Contracting strategy

1.3 DEFINITIONS

No Definitions required.

1.3.1 Classification

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

1.4 ABBREVIATIONS

Abbreviation	Description
C&I	Control and Instrumentation
CV	Curriculum Vitae
DRA	Definition Release Approval
ECSA	Engineering Counsel of South Africa
MTTF	Mean Time To Failure
MTTR	Mean Time To Repair
N/A	Not Applicable
PLC	Programmable Logic Controller
SSC	Submerged Scraper Conveyor
TET	Technical Evaluation Team

1.5 ROLES AND RESPONSIBILITIES

N/A as per 240-48929482: Tender Technical Evaluation Procedure

1.6 PROCESS FOR MONITORING

N/A

1.7 RELATED/SUPPORTING DOCUMENTS

N/A

2. TENDER TECHNICAL EVALUATION STRATEGY

2.1 TECHNICAL EVALUATION THRESHOLD

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

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2.2 TET MEMBERS

It is noted as part of the Tender Technical Evaluation Procedure that two TET members are required to evaluate a specific criterion.

Table 1: TET Members

TET number	TET Member Name	Designation
TET 1	Linda Mahlangu	EDWL Boiler Engineering Tutuka Power Station
TET 2	Lubabalo Tyatyeka	Boiler Engineer – Tutuka Power Station
TET 3	Pikela Chauke	Senior Boiler Engineer – Tutuka Power Station
TET 4	Makgatle Lentsoane	Senior Electrical Engineer – Tutuka Power Station
TET 5	Solo Phungwayo	Electrical Engineer – Tutuka Power Station
TET 6	Motlatsi Tshupe	C&I Engineer – Tutuka Power Station
TET 7	Mboneni Ngwenyama	Senior C&I Engineer – Tutuka Power Station
TET 8	Clarissa Lesanne Chetty	Civil Engineer – Tutuka Power Station
TET 9	Sipho Thango	Senior Civil Engineer – Tutuka Power Station

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2.3 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.	Compliance with Eskom welding procedure and supply of materials, minimum requirements as follows: <ul style="list-style-type: none">• Certified copy of ISO 3834 Certification.	Tenderer to submit valid; <ul style="list-style-type: none">• Certified copy of ISO 3834 Certificate.	Requirement in the 240-106628253; Standard for Welding Requirements on Eskom Plant.
2.	Lead Design Engineer who will be accountable and oversee the project must be ECSA registered and poses sound and related experience to the project.	Tenderer to submit; <ul style="list-style-type: none">• Certified copy of ECSA certificate showing ECSA registration number.• Curriculum Vitae (CV).	Capability Constraint

2.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 3 defines all Qualitative Evaluation Criteria to be used as well as reference to specification and specific weighting.

Table 3: Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
1.	Mechanical Evaluation			40	
	1.1	<p>Design experience of chain conveying system with drive and take up systems.</p> <ul style="list-style-type: none"> 5 or more completed chain conveying system with drive and take up systems design projects (5/5 points). 3 to 4 completed chain conveying system with drive and take up systems design projects (4/5 points). 1 to 2 completed chain conveying system with drive and take up systems design projects (2/5 points). Not submitted/ Design experience not relevant or satisfactory/ No design experience (0/5 points). 	<p>The tenderer provides:</p> <ul style="list-style-type: none"> Reference that the Manufacturer/Supplier has successfully built/supplied similar equipment. Certificate of completion that includes the description of the completed project, details of the client and the construction dates. The scope previously completed must be relevant to the scope required to be completed as part of this enquiry ie. Design and construction of chain conveying system with drive and take up system. 		30
	1.2	<p>Design experience of slurry water pumping systems and ability to provide drawings (mechanical, electrical and control & instrumentation) and operating procedures.</p>	The tenderer submits the following;		20

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		<p>Water recovery systems, slurry pump and pipe systems design capability.</p> <ul style="list-style-type: none"> • 5 or more completed water recovery systems, slurry pump and pipe systems design projects (5/5 points). • 3 to 4 water completed recovery systems, slurry pump and pipe systems design projects (4/5 points). • 1 to 2 completed water recovery systems, slurry pump and pipe systems design projects (2/5 points). • Not submitted/ Design capability not relevant or satisfactory/ No design capability (0/5 points). 	<ul style="list-style-type: none"> • Description of the scopes completed and certificate of completion. • The client details. • Reference that the Manufacturer/Supplier has successfully built/supplied similar equipment with in the last 10 years. 		
	1.3	<p>An organogram for the core crew, in particular the names and qualifications of the Site Manager, Safety Officer, Foreman, Machine Operators, General Workers, and supporting staff necessary to execute the works.</p> <ul style="list-style-type: none"> • Organogram of the entire mentioned core crew with CVs submitted (5/5 points) • Organogram of the minimum mentioned core crew with CVs submitted (4/5 points) • Organogram of the minimum mentioned core crew with not CVs submitted (2/5 points) • No Organogram of the minimum core crew or CVs submitted (0/5 points) 	<p>An organogram for the core crew identified to execute the project, this should include but not limited to:</p> <ul style="list-style-type: none"> • Company organogram specific of the team identified to execute Employer's Works • CV's • Certified copies of Qualifications • Certified copies of employee competency certificates 		15
	1.4	<p>Office and Workshop evaluation.</p> <ul style="list-style-type: none"> • Indicate location and size of company office, indicate location and size of workshop/s space, indicating umber of machines available and capability of the machines to execute the Works (5/5 points) • Indicate location and size of company office and workshop only (4/5 points) • Indicate office location only (2/5 points) • No information submitted regarding Office and Workshop (0/5 points) 	<p>Indicate location and floor area of company office space. Provide specification of workshop, this may include:</p> <ul style="list-style-type: none"> • Size of workshop space. • Number of liftings, milling and turning equipment available. • Capability of each lifting, milling and turning equipment available. 		10

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			The workshop should demonstrate capability to machine components required to meet scope.		
	1.5	<p>Project Schedule for the works</p> <ul style="list-style-type: none"> High level project schedule that indicates critical project milestones and durations submitted (5/5 points). High level project schedule that indicates critical project milestones only or durations only submitted (2/5 points). High level project schedule not submitted (0/5 points). 	Tenderer to provide high level project schedule that indicates critical project milestones and durations.		15
	1.6	<p>QCP showing the Contractor's Historic/standard QCP with Holding, Witness, Surveillance points for Similar work conducted.</p> <ul style="list-style-type: none"> QCPs showing the Contractor's Historic/standard QCPs utilised with Holding, Witness, Surveillance points for component fabrication and assembly activities (5/5 points) QCPs showing the Contractor's Historic/standard QCPs with limited interface points for fabrication or assembly activities (4/5 points) QCPs not included (0/5 point) 	As per Employer's Works Information QCP		10
2.	Electrical Evaluation Criteria			20	
	2.1	<p>Method statement / Proposal for the works clearly demonstrating compliance with the full scope of work for electrical works as detailed in the works information</p> <ul style="list-style-type: none"> Method statement must include but not limited: Concept/Basic Design Drawings, Load List of electrical equipment and summary of required electrical load, identified interfaces, Cable sizing 	Tenderer to demonstrate and provide analysis of current system and replacement recommendations. Submission of concept design layouts, schematics, flow diagrams, lists, schedules which indicates best as possible on a high level the		20

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		<p>and calculations, Reviews performed by a ECSA Registered Electrical Engineer (5/5 points), Certified copy of ECSA certificate showing ECSA registration number must also be submitted.</p> <ul style="list-style-type: none"> Electrical Method Statement which includes and describes the electrical supply requirements, load requirements, voltage and current levels and types, electrical control flow diagram, possible load requirement of electrical equipment, electrical interfaces (mechanical, instrumentation, etc.) (4/5 points) Electrical Method statement which includes and describes basic design requirements for electrical supply and interface (2/5 points) Totally deficient or Non-Responsive (0/5 points) 	electrical requirements as well as interface requirements.		
	2.2	<p>Company to have experience in switch gear, cables and motor selection design. Completed power supply projects (copy of contracts or orders with contract numbers to be submitted):</p> <ul style="list-style-type: none"> 6 projects or more (5/5 points) 4 - 5 projects (4/5 points) 1 – 3 projects (2/5 points) No project (0/5 points) 	Tenderer to demonstrate and provide reference for Works completed with similar nature and contract value		30
	2.3	<p>Proof of compliance to SANS 10142 and SANS10108, electrical installation rules.</p> <ul style="list-style-type: none"> Submission of Registration of Master Installation Electrician with the Department of Labour, who will be part of the project (5/5 points) No registration (0/5 points) 			50
3.	Control and Instrumentation Criteria			20	

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	3.1	<p>Lead Design Engineer/Technologist who will be accountable and oversee the C&I scope must be ECSA registered with sound knowledge of control and instrumentation systems.</p> <ul style="list-style-type: none"> Lead engineer provides ECSA certificate as (PrEng/PrTech Eng) (5/5 points) Lead engineer does not provide ECSA certificate as (PrEng/PrTech Eng) (0/5 points) 	<p>Tenderer to submit;</p> <p>Certified copy of ECSA certificate showing ECSA registration number.</p>		20
	3.2	<p>CV's – Engineer undertaking DCS/PLC program changes. Demonstrate the level of relevant experience in programming, configuration changes and commissioning of ABB P14 Procontrol DCS system.</p> <ul style="list-style-type: none"> 6 or more years relevant references (5/5 points) 3 to 5 years relevant experience (4/5 points) 2 years or less relevant experience (2/5 points) No CVs submitted or not relevant (0/5 points) 	<p>Work experience undertaking DCS/PLC program changes</p>		30
	3.3	<p>Confirms compliance with the Scope of Work, Employers Standards and Specifications. (Provide confirmation and/or exceptions/exclusions for each SOW section and sub section)</p> <ul style="list-style-type: none"> Compliance confirmations with no exceptions (5/5 points) Compliance confirmations with acceptable exceptions (4/5 points) Compliance confirmations with unacceptable exceptions/exclusions - justification to be given by Evaluator (2/5 points) 	<p>Section 3.2.9 and 3.2.10 of Technical Specification</p>		10

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		<ul style="list-style-type: none"> Compliance confirmations not submitted (0/5 points) 			
	3.4	<p>Instrumentation requirement</p> <p>Provide information, data sheets and technical specs for all instrumentation the tenderer will provide. Minimum requirement in line with Eskom Standard which requires the rating to be IP68.</p> <ul style="list-style-type: none"> Information provided on all instruments provided by the Tenderer. Equipment meets the requirements of the Work Instruction (5/5 points) Concerns raised on the suitability of some of the equipment proposed by the Tenderer (4/5 points) Tenderer only stipulates that the instruments provided will meet the WI requirements (2/5 points) Totally deficient or Non-Responsive (0/5 points) 	Section 3.2.9 and 3.2.10 of Technical Specification. Appendix A Instrument schedule		10
	3.5	<p>Junction Box Requirement</p> <p>Provide details and technical specification of termination terminals and glands for each junction box.</p> <ul style="list-style-type: none"> Detailed technical specification provides for termination terminals and glands with sufficient information to confirm full compliance to relevant Eskom standard (5/5 points) Detailed technical specification provides for termination terminals and glands with sufficient information to confirm compliance to relevant Eskom standard. Non-compliant areas are acceptable (4/5 points) Only confirmation is provided that items will comply to WI without additional information (2/5 points) 	Section 3.2.10.3 of Technical Specification		10

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		<ul style="list-style-type: none"> Totally deficient or Non-Responsive (0/5 points) 			
	3.6	<p>Local Control Station (LCS) Requirement</p> <p>Provide layout drawings and technical specifications for a typical Local Control Station including push-buttons, switches and indicator etc</p> <ul style="list-style-type: none"> Layout drawings and technical specification provide for SSC box with sufficient information to confirm full compliance to relevant Eskom standard (5/5 points) Layout drawings and technical specification provide for SSC box with sufficient information to confirm compliance to relevant Eskom standard. Non-compliant areas are acceptable (4/5 points) Only drawings or technical specification provided which limit review of compliance (2/5 points) Totally deficient or Non-Responsive (0/5 points) 	<p>Section 3.2.10.3 and 3.2.10.10 of Technical Specification</p> <p>The Tenderer provides LCS(s) with the following requirements:</p> <ul style="list-style-type: none"> LCS(s) have dual enclosures with both enclosures provided with a door. The interior enclosure will house all the relevant Electrical and C&I components, all required push buttons, SSC speed control potentiometer and indications. The exterior enclosure should be IP 68 rated. Locking mechanism is industrial cubicle handle with padlock. 		20
4.	Civil Evaluation Criteria			20	
	4.1	<p>Lead Design Engineer who will be accountable and oversee the Civil and structural scope.</p> <ul style="list-style-type: none"> Lead engineer is ECSA registered as (PrEng/PrTech Eng) and has a BSc/BEng/Btech Civil Engineering degree with 10 or more years relevant structural engineering experience (5/5 points) 	<p>Tenderer to submit;</p> <ul style="list-style-type: none"> Certified copy of ECSA certificate showing ECSA registration number. 		45

		<ul style="list-style-type: none"> Lead engineer is ECSA registered as (PrEng/PrTech Eng) and has a BSc/BEng/Btech Civil Engineering degree with 9 or less years relevant structural engineering experience (4/5 points) Lead engineer is ECSA registered as (PrEng/PrTech Eng) and has a BSc/BEng/Btech Civil Engineering degree with no relevant structural engineering experience (2/5 points) Lead engineer is not ECSA registered as (PrEng/PrTech Eng) and does not have a BSc/BEng/Btech Civil Engineering degree (0/5 points) 	<ul style="list-style-type: none"> Certified copy of BSC/Beng/Btech Civil Engineering degree. 		
	4.2	<p>Method statement for the completion of the Civil and Structural works to be competed.</p> <ul style="list-style-type: none"> Project methodology details fully how scope will be met and provides comprehensive methodology of approach (5/5 points). Proposed project methodology contains high level descriptions that reiterates scope of works (2/5 points). No Method statement/ Not satisfactory (0/5 points) 	<p>Section 3.4.1 of Technical Specification.</p> <p>Method statement to include:</p> <ul style="list-style-type: none"> Schedule/sequins of events List of standards applied High level risk identified <p>The method statement is to demonstrate how the works will be completed taking into account the risks, constraints and complete scope.</p>		15
	4.3	<p>Contractor's similar works experience of structural engineering projects previously completed.</p> <ul style="list-style-type: none"> 5 or greater than 5 relevant projects completed (5/5 points) 3 or 4 relevant projects completed (4/5 points) 1 or 2 relevant project/s completed (2/5 points) 	<p>Work experience and Signed References</p>		20

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		<ul style="list-style-type: none"> Not submitted/No structural engineering or related project experience/Construction experience not relevant (0/5 point) 			
	4.4	<p>Project programme/schedule submitted detailing the milestones activities, start and completion dates.</p> <ul style="list-style-type: none"> Program / project schedule submitted (5/5 points) Program / project schedule submitted but not complete (2/5 points) Program / project schedule <u>NOT</u> submitted (0/5 points) 	As per Employer's Works Information		10
	4.5	<p>QCP showing the Contractor's proposed QCP with Holding, Witness, Surveillance points for Employer Contractor.</p> <ul style="list-style-type: none"> QCP showing the Contractor's proposed QCP with Holding, Witness, Surveillance points for Employer Contractor (5/5 points) Generic QCP showing the Contractor's Historic/organisational QCP template with limited interface points (4/5 points) QCP not satisfactory (2/5 points) QCP not submitted (0/5 point) 	As per Employer's Works Information QCP		10
				TOTAL: 100	

Table 4: 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 <ul style="list-style-type: none"> • Meet technical requirement(s) with; • 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 requirement(s) AND/OR; • Unacceptable technical risk(s) AND/OR; • Unacceptable exceptions AND/OR; • Unacceptable conditions.
0	0	TOTALLY DEFICIENT OR NON-RESPONSIVE
<p>Note 1: The scoring table does not allow for scoring of 1 and 3.</p> <p>Note 2: Foreseen acceptable and unacceptable risk(s), exceptions and conditions shall be unambiguously defined in the relevant Tender Technical Evaluation Strategy.</p>		

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2.5 TET MEMBER RESPONSIBILITIES

This table shows the TET members allocated to evaluate the various criteria as defined in Table 2 and Table 3 respectively.

Table 5: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3	TET 4	TET 5	TET 6	TET 7	TET 8	TET 9
1	x	x	x						
2	x	x	x	x	x	x	x	x	x
Qualitative Criteria Number	TET 1	TET 2	TET 3	TET 4	TET 5	TET 6	TET 7	TET 8	TET 9
1.	x	x	x						
2.				x	x				
3.						x	x		
4.								x	x

TET 1 is the EDWL. TET 1 will have access to all the tender submissions to complete the technical evaluation score verification and consolidations as per the Tender Technical Evaluation Strategy.

2.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

2.6.1 Risks

Table 6: Acceptable Technical Risks

Risk	Description
1.	Subcontracting of the integration of the control system to different entities

Table 7: Unacceptable Technical Risks

Risk	Description
1.	The supplied method statement for the completion of the electrical scope shows that the contractor either has a misunderstanding of what is required to complete the electrical scope
2.	No method statement is supplied (Electrical scope)
3.	Method statement supplied is irrelevant or shows no understanding of the scope
4.	Tenderer is not able to demonstrate that the proposed integrators will be able to engineer in both Siemens and ABB control systems.
5.	The instrumentation list includes instrumentation that is not in line with the operating philosophy.
6.	Incompatible instruments are proposed by the tenderer

2.6.2 Exceptions / Conditions

Table 8: Acceptable Technical Exceptions / Conditions

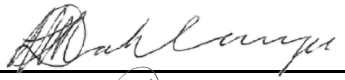


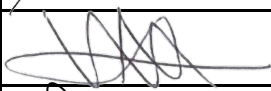


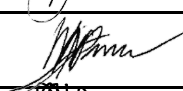


Risk	Description
1.	Method statement supplied but is lacking in key information requested in the enquiry that can possibly be negotiated

Table 9: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	Any deviation, exception or condition that can result in a risk with regards to the successful completion of the project that cannot reasonably be mitigated or negotiated with the tenderer.

3. AUTHORISATION

This document has been seen and accepted by:

Name	Designation	Signature
Linda Mahlangu	EDWL Boiler Engineering Tutuka Power Station	
Lubabalo Tyatyeka	Boiler Engineer – Tutuka Power Station	
Pikela Chauke	Senior Boiler Engineer – Tutuka Power Station	
Makgatle Lentsoane	Senior Electrical Engineer – Tutuka Power Station	
Solo Phungwayo	Electrical Engineer – Tutuka Power Station	
Motlatsi Tshupe	C&I Engineer – Tutuka Power Station	
Mboneni Ngwenyama	Senior C&I Engineer – Tutuka Power Station	
Clarissa Lesanne Chetty	Civil Engineer – Tutuka Power Station	
Sipho Thango	Senior Civil Engineer – Tutuka Power Station	

4. REVISIONS

Date	Rev.	Compiler	Remarks
July 2021	1	FM Nieuwoudt	Document completed, ready for signature.
February 2022	2	Lubabalo Tyatyeka Tebogo Motloutsi Clarissa Lesanne Chetty Mboneni Ngwenyama	<ul style="list-style-type: none"> Included the scoring guideline for the technical evaluation criteria. Added new TES members.
December 2022	3	L. Mahlangu	<ul style="list-style-type: none"> Added new TET members. Revised Table 2: Mandatory Technical Evaluation Criteria Revised Table 3: Qualitative Technical Evaluation Criteria Revised Table 5: TET Member Responsibilities

5. DEVELOPMENT TEAM

The TET members as listed in Table 1 were involved in the development of this document.

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