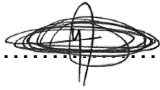
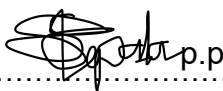



	<b>Strategy</b>	<b>Engineering</b>
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Title: <b>Tender Technical Evaluation Strategy Duvha Power Station Effluent System Upgrade</b>	Unique Identifier:	<b>382-171389</b>
	Alternative Reference Number:	<b>N/A</b>
	Area of Applicability:	<b>Engineering</b>
	Documentation Type:	<b>Strategy</b>
	Revision:	<b>01</b>
	Total Pages:	<b>17</b>
	Next Review Date:	<b>N/A</b>
Disclosure Classification:		<b>CONTROLLED DISCLOSURE</b>

Compiled by	Functional Responsibility	Authorised by
		
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Date: 2024/11/04	Date: 2024/11/04	Date: 2024-11-06

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## **1. INTRODUCTION**

Duvha Power Station (PS) has experienced problems with the removal of Water Treatment Plant (WTP) effluent from the effluent sump to the high-level ash water return dam. As a result of this, the effluent sump remains full on a continuous basis, and the power station is forced to manage the level by diverting some of the effluent sump contents to the sludge sump. The sludge sump has not been designed to receive effluent of this quality, as the sump is not lined, and it has carbon steel pumps and pipelines.

The project seeks to mitigate this problem through the upgrade of the effluent system. The upgrade shall consist of the replacement of all three existing effluent sump pumps, each with a capacity of 125 m<sup>3</sup>/hr and the construction of a piping system to cater for the new flow rate within the system.

The *works* is inclusive of all activities necessary for the provision of a fully functional system that meets the *Employer's* requirements. The *Contractor* shall design, manufacture, procure, install and commission all Mechanical, Civil, Electrical, Control & Instrumentation Plant required for the *works* as defined in this technical specification. This shall include interfacing with and utilisation of existing plant and materials. The *Contractor* shall ensure that the complete design shall be performed by an ECSA registered professional engineer/technologist for each discipline as required by the scope of the design.

## **2. SUPPORTING CLAUSES**

### **2.1 SCOPE**

The *works* consists of the replacement of all three existing effluent sump pumps with three new pumps, each with a capacity of 125 m<sup>3</sup>/hr and the construction of a piping system to cater for the new flow rate within the system. The routing of the upgraded pipework shall follow the current system routing as closely as is practical.

The upgraded effluent system shall use the same operating and control philosophy as the current effluent system. The upgraded system shall utilise the cabling, power supply and motors of the current effluent system. The upgraded effluent system shall be controlled by the control and instrumentation design currently in use in the effluent system.

#### **2.1.1 Purpose**

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

#### **2.1.2 Applicability**

This document is applicable to all relevant stakeholder for the upgrade of Duvha Power Station Effluent Pumping System.

## **2.2 NORMATIVE/INFORMATIVE REFERENCES**

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

### **2.2.1 Normative**

[1] 240-48929482: Tender Technical Evaluation Procedure

### **2.2.2 Informative**

[2] 382-ECM-BEEC-D00035-16: Duvha Power Station Effluent System Upgrade Technical Specification Rev 02

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[3]

## **2.3 DEFINITIONS**

### **2.3.1 Classification**

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

## **2.4 ABBREVIATIONS**

<b>Abbreviation</b>	<b>Description</b>
TET	Technical Evaluation Team
ECSA	Engineering Council of South Africa
IWT	International Welding Technologist
IWE	International Welding Engineer
QCP	Quality Control Plan
WTP	Water Treatment Plant
WPS	Welding Procedure Specifications
WPQR	Welding Procedure Qualification Record
WT	Wall Thickness

## **2.5 ROLES AND RESPONSIBILITIES**

as per 240-48929482: Tender Technical Evaluation Procedure

## **2.6 PROCESS FOR MONITORING**

as per 240-48929482: Tender Technical Evaluation Procedure

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### 3. TENDER TECHNICAL EVALUATION STRATEGY

#### 3.1 TECHNICAL EVALUATION THRESHOLD

A weighted score-card approach shall be used to evaluate the technical compliance of the tenders against the specifications. The overall minimum weighted final score (threshold) required for a tenderer to technically qualify for further evaluation is 70%.

The scoring method will consider the following qualitative evaluation criteria table:

Score	(%)	Definition
5	100	<b>COMPLIANT</b> <ul style="list-style-type: none"><li>• Meet technical requirement(s), AND</li><li>• No foreseen technical risk(s) in meeting technical requirement</li></ul>
4	80	<b>COMPLIANT WITH ASSOCIATED QUALIFICATIONS</b> Meet technical requirement(s) with: <ul style="list-style-type: none"><li>• Acceptable technical risk(s), AND/OR</li><li>• Acceptable exceptions, AND/OR</li><li>• Acceptable conditions.</li></ul>
2	40	<b>NON-COMPLIANT</b> <ul style="list-style-type: none"><li>• Does not meet technical requirement(s), AND/OR</li><li>• Unacceptable technical risk(s), AND/OR</li><li>• Unacceptable exceptions, AND/OR</li><li>• Unacceptable conditions.</li></ul>
0	0	Totally Deficiency or Non-Response
Note 1: The scoring table does not allow scoring of 1 and 3		
Note 2: Foreseen acceptable and unacceptable risk(s), exceptions and conditions shall be unambiguously defined in the relevant Tender Evaluation Strategy.		

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### **3.2 TET MEMBERS**

**Table 1: TET Members**

<b>TET number</b>	<b>TET Member Name</b>	<b>Designation</b>
TET 1	Yamkela Mgwebi	Auxiliary Engineer – WTP
TET 2	Sumayyah Suliman	Generation Chief Engineer – WTP
TET 3	Sibonokuhle Tapala	Senior Engineer
TET 4	Vusi Chirwa	Civil Engineer – Duvha PS
TET 5	Thilivhali Muthaki	Civil Engineer – Duvha PS
TET 6	Thokozani Xulu	Electrical Engineer – Outside Plant
TET 7		Electrical Engineer – Outside Plant

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### 3.3 MANADATORY TECHNICAL EVALUATION CRITERIA

**Table 2: Mandatory Technical Evaluation Criteria**

	<b>Mandatory Technical Criteria Description</b>	<b>Reference to Technical Specification / Tender Returnable</b>	<b>Motivation for use of Criteria</b>
1.	Professional Engineering Registration per engineering discipline – Mechanical Engineering.	ECSA certification of Mechanical Engineer.	Level one plant requires that staff to be ECSA registered to ensure design is done by competent engineers
2.	Professional Engineering Registration per engineering discipline – Electrical Engineering.	ECSA certification of Electrical Engineer.	Level one plant requires that staff to be ECSA registered to ensure design is done by competent engineers
3.	Professional Engineering Registration per engineering discipline Civil Engineering.	ECSA certification of Civil Engineer.	Level one plant requires that staff to be ECSA registered to ensure design is done by competent engineers
4.	Valid ISO 3834-2 Certification. Complete certification (all pages) of the valid ISO 3834-2 certificate must be submitted and it must clearly indicate certification for the following Design Codes (BS EN 13480; BS EN 13445 and P5500) as well as the following Material Groups (1, 5, 6, 7 and 8 according to ISO 15608) for which the Contractor is declared competent.	The Contractor submits proof of a valid (not expired) BS EN ISO 3834-2 certification (all pages) with the tender.	This criterion is required to ensure that the contractor is competent to do welding on the required scope of work

### 3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

**Table 3: Qualitative Technical Evaluation Criteria**

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
<b>1.</b>	<b>MECHANICAL REQUIREMENTS</b>			<b>30</b>	
	1.1	<b>SCOPE OF WORK EXPERIENCE</b> Tenderer to demonstrate experience of successfully designing, installation, commissioning, optimising and testing of centrifugal pumping system.	Provide & supply signed completion letter related to the scope of work (Design and install and commission of pumping system) consisting of the following information:  (NB: contract agreement and Purchase orders will not be acceptable or regarded as proof of previous experience, if the project is not completed) <ul style="list-style-type: none"> <li>Name of company where project was executed.</li> <li>Project Description (minimum pump</li> <li>Construction period</li> <li>Contract value</li> <li>Contact person</li> </ul>		30
	1.2	<b>COMPANY ORGANOGRAM</b> Company organogram must reflect the status of company. Organogram should indicate <b>key personnel</b> as a minimum: site manager, site supervisor, mechanical, site artisans, welding staff, Civil, Electrical & C&I engineers.	Submission of Organogram indicating the office staff and site staff. The Contractor clearly indicates in the submitted organogram who the appointed key personnel as indicated on the criteria: <ol style="list-style-type: none"> <li>Site/Project manager</li> <li>Site Supervisor</li> <li>Engineering Personnel (Mechanical, Civil, Electrical and Control &amp; Instrumentation engineers).</li> </ol>		5
	1.3	<b>KEY PERSONNEL QUALIFICATIONS AND CV's</b> Company must provide CV's showing number of experience and references.  proof of qualifications with copies of certificates, diplomas, degrees, etc. are submitted.  CV containing details of work experience and valid references are submitted as proof of experience.	Provide Certified qualification and CV with the following as minimum: <ol style="list-style-type: none"> <li>Site/Project Manager: <ul style="list-style-type: none"> <li>Qualification – National Diploma in project management or construction management or any technical qualification in any engineering field and must be Professionally registered with SACPCMP or PMP.</li> <li>Work Experience – 5 years' experience in project management</li> </ul> </li> <li>Site Supervisor: <ul style="list-style-type: none"> <li>Qualification – National Diploma in Mechanical Engineering</li> <li>Work Experience – 5 years' experience as supervisor</li> </ul> </li> <li>Engineering professional Personnel (Mechanical): <ul style="list-style-type: none"> <li>Qualifications – BSc Eng/B Eng/ Btech Eng and Professional Engineer or Professional engineering Technologist certified ECSA certificate.</li> <li>Work Experience – 5 years post registration</li> </ul> </li> </ol>		20



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	1.4	<b>PROJECT PROGRAM</b> The main contractor outlines their proposed project programme which fits within the proposed contract period stipulated in the Employer's enquiry document.	A detailed project programme must be submitted indicating all major activities and milestones and includes the following as a minimum: <ol style="list-style-type: none"> <li>1. Project Start date.</li> <li>2. Procurement long lead times (targeting 12 weeks).</li> <li>3. Major milestones including installation and commissioning for each section as outlined on the Employer's enquiry document.</li> <li>4. Project Completion date</li> <li>5. In Microsoft (MS) Projects format</li> </ol>		15
	1.5	<b>SCOPE OF WORK COMPLIANCE</b> The contractor fully complies with the NEC3 ECC contract conditions and with the technical scope as set out in the enquiry document. If deviations are listed - the deviations will be evaluated to determine if it is a risk to the project.	Signed Deviations confirmation letter .		10
	1.6	<b>METHOD STATEMENT AND QUALITY CONTROL PLAN (QCP)</b> Mechanical interface piping and site installation high level method statement, the method statement clearly demonstrates the Tenderer's compliance with the full scope of work as detailed in the works. The following is addressed: <ul style="list-style-type: none"> <li>• Schedule</li> <li>• Piping &amp; Instrumentation</li> <li>• Pumps &amp; Valves Selection</li> <li>• All Mechanical Equipment and Interfaces.</li> </ul>	Contractor submits a method statement which details high level the mechanical scope of work. The following is addressed: <ol style="list-style-type: none"> <li>1. Schedule</li> <li>2. Piping &amp; Instrumentation</li> <li>3. Pumps &amp; Valves Selection</li> <li>4. All Mechanical Equipment and Interfaces</li> </ol>		20
<b>2.</b>	<b>WELDING REQUIREMENTS</b>			<b>20</b>	
	2.1	<b>WELDING CONTRACORS WELDING QUALIFICATIONS</b> Qualified Welding Procedure Specifications (WPS) and Welding Procedure Qualification Record (WPQR) to be issued.	Qualified Welding Procedure Specifications (WPS) and Welding Procedure Qualification Record (WPQR) to be issued as examples for the following materials: <ol style="list-style-type: none"> <li>1. Dissimilar Material butt weld joint for Stainless Steel (Group 8.1) to Carbon Steel (Group 1.2)</li> <li>2. Carbon steel butt weld joint (Group 1.2) to itself (WT&gt; 10mm).</li> <li>3. Carbon steel butt weld joint (Group 1.2) to itself (WT&gt; 10mm).</li> </ol>		30
	2.2	<b>WELDING CONTRACTORS IWT/IWE CERTIFICATE</b> Proof of the welding contractor's IWT/IWE certificate. If subcontracted, proof of the arrangement between the IWT/IWE and the company as well as the IWT/IWE certificate.	Proof of the welding contractor's IWT/IWE certificate. If subcontracted, proof of the arrangement between the IWT/IWE and the company as well as the IWT/IWE certificate.		30
	2.3	<b>WELDING INSPECTOR'S QUALIFICATIONS</b> Proof of the welding inspector's qualifications, i.e. SAIW Welding and Fabrication Inspector Level 2 or IIW International Welding Inspector: Comprehensive (IWI- C) or IIW International Welding Inspector: Standard (IWI- S).	Proof of the welding inspector's qualifications, i.e. SAIW Welding and Fabrication Inspector Level 2 or IIW International Welding Inspector: Comprehensive (IWI- C) or IIW International Welding Inspector: Standard (IWI- S).		40

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3.	CIVIL REQUIREMENT		20	
	<p>3.1 <b>Previous projects structural design or assessment completed:</b></p> <p>Provide proof of relevant experience in the consulting industry. The tenderer must have completed consulting work such as Civil Structural designs (structural design) or, Assessments through structural analysis as a main contractor or sub-contract. Submit at least three (3) verifiable references for previous work. Completion certificates or completion letters or testimonials signed by both parties shall be attached for each reference indicating the following:</p> <ul style="list-style-type: none"> <li>• Project name</li> <li>• Principal contractor</li> <li>• Client</li> <li>• Description of work performed (size of structures to be indicated)</li> <li>• Project cost (only for scope performed)</li> <li>• Project start and end date.</li> <li>• Name, designation and contact number of reference person</li> </ul>	Completion certificates/reference letters/testimonial letters		30
	<p>3.2 <b>Previous projects structural construction completed:</b></p> <p>Provide proof of relevant experience in the construction industry. The tenderer must have completed construction work such as concrete works for (buildings, power station structures or industrial structures as a main contractor or sub-contract. Submit at least three (3) verifiable references for previous work. Completion certificates or completion letters or testimonials signed by both parties shall be attached for each reference indicating the following:</p> <ul style="list-style-type: none"> <li>• Project name</li> <li>• Principal contractor</li> <li>• Client</li> <li>• Description of work performed (size of structures to be indicated)</li> <li>• Project cost (only for scope performed)</li> </ul>	Completion certificates/reference letters/testimonial letters		30

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		<ul style="list-style-type: none"> <li>Project start and end date.</li> <li>Name, designation and contact number of reference person</li> </ul>			
	3.3	<b>Construction Site Agent/Engineer</b> Submit a CV and Qualification(s) for a registered ECSA Candidate Civil Engineer/Technologist with a minimum of 5 years' experience within the civil engineering industry (construction works).	CV and Qualification		40
<b>4.</b>	<b>ELECTRICAL REQUIREMENTS</b>			<b>30</b>	
	4.1	Method statement	The <i>Contractor</i> shall submit a detailed method statement outlining how the work will be carried out.		20
	4.2	CVs and qualifications	The <i>Contractor</i> shall submit the CVs and qualifications of all the key personnel and showing the following: <ul style="list-style-type: none"> <li>Each personnel has 4 years of experience in similar work.</li> <li>Qualifications</li> <li>ECSA professional registered technologist/engineer responsible for carrying out the design.</li> </ul>		35
	4.3	Similar Work Done/Experience	The <i>Contractor</i> to submit two similar traceable projects completed in the last 5 years . The projects need to demonstrate the following: <ul style="list-style-type: none"> <li>Customer details (List of verifiable references must be provided)</li> <li>Completion certificate/letter of completion from Client</li> <li>Project name and contact details of the reference person</li> <li>Description of work performed (description must be detailed enough to demonstrate that work performed on the project is similar in nature to the works required on this project)</li> <li>Project cost, Project start and end date , Appointment letter</li> </ul>		45
				<b>TOTAL: 100</b>	

**TET MEMBER RESPONSIBILITIES**

**Table 4: TET Member Responsibilities**

<b>Mandatory Criteria Number</b>	<b>TET 1</b>	<b>TET 2</b>	<b>TET 3</b>	<b>TET 4</b>	<b>TET 5</b>	<b>TET 6</b>	<b>TET 7</b>
1. ECSA Certificate – Mechanical	X	X	X				
2. ECSA Certificate – Civil				X	X		
3. ECSA Certificate – Electrical						X	X
4. ISO 3834-2 Certification – Welding							
<b>Qualitative Criteria Number</b>	<b>TET 1</b>	<b>TET 2</b>	<b>TET 3</b>	<b>TET 4</b>	<b>TET 5</b>	<b>TET 6</b>	<b>TET 7</b>
<b>1. MECHANICAL REQUIREMENTS</b>							
1.1 scope experience	X	X	X				
1.2 company organogram	X	X	X				
1.3 key personnel qualification and experience	X	X	X				
1.4 project program	X	X	X				
1.5 scope of work compliance	X	X	X				
1.6 method statement and quality control plan (QCP)	X	X	X				
<b>2. WELDING REQUIREMENTS</b>							
2.1 welding contractors welding qualifications.	X	X	X				
2.2 welding contractors IWT/IWE certificate.	X	X	X				
2.2 welding inspector's qualification.	X	X	X				
<b>3. CIVIL REQUIREMENT</b>							
3.1 Previous projects structural design or assessment completed:				X	X		
3.2 Previous projects structural construction completed				X	X		
3.3 Construction Site Agent/Engineer				X	X		
<b>4. ELECTRICAL REQUIREMENTS</b>							

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4.2 Method statement						X	X
4.3 CVs and qualifications						X	X
4.4 Similar Work Done/Experience						X	X

### 3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

#### 3.6.1 Risks

**Table 5: Acceptable Technical Risks**

Risk	Description
<b>MECHANICAL REQUIREMENTS</b>	
1.	Requirement 1.1 – submission of 2 out of 3 relevant completion certificate/testimonial letter/reference letters for civil consulting works.
2.	Requirement 2.2 – submission of company organogram with any two (2) key personnel missing.
3.	Requirement 1.3 – submission of CV and relevant qualification of all key personnel and reflects 4 years of relevant working experience.
4.	Requirement 1.4 – submission of project programme with no major milestones such as installation and commissioning, start and completion dates
5.	Requirement 1.5 – submission of compliance letter with minor deviations (one deviation) from the scope of work.
6.	Requirement 1.6 – submission of High-level method statement with any two (2) systems missing as per the requirement 1.6.
<b>WELDING REQUIREMENTS</b>	
1.	Requirement 2.1 – submission of 2 out of 3 WPS examples as per criteria 2.1.
2.	Requirement 2.2 – Welding Contractor's Certificate (IWT/IWE) – None
3.	Requirement 2.3 – welding contractors IWT/IWE certificate – None
<b>CIVIL REQUIREMENTS</b>	
1.	Requirement 3.1 – submission of 2 out of 3 relevant completion certificate/testimonial letter/reference letter for civil consulting works.
2.	Requirement 3.2 – submission of 2 out of 3 relevant completion certificate/testimonial letter/reference letter for civil construction works.
3.	Requirement 3.3 – submission of CV and relevant qualification, the reflects between 3 to 5 years of relevant working experience.
<b>ELECTRICAL REQUIREMENTS</b>	
1.	Proposing alternative standards and solution motivated in detail than those specified IEC/SANS/Eskom Standards
2.	

3.	
4.	

**Table 6: Unacceptable Technical Risks**

<b>Risk</b>	<b>Description</b>
	<b>MECHANICAL REQUIREMENTS</b>
1.	Requirement 1.1 – submission of 1 out of 3 relevant completion certificate/testimonial letter/reference letters for civil consulting works.
2.	Requirement 2.2 – submission of company organogram with any four (4) key personnel missing.
3.	Requirement 1.3 – submission of CV and relevant qualification of all key personnel and reflects 2 years of relevant working experience.
4.	Requirement 1.4 – submission of project programme missing the following: <ul style="list-style-type: none"> <li>• Project start and completion date.</li> <li>• Major milestones such as installation and commissioning.</li> <li>• Programme not in Microsoft project format.</li> </ul>
5.	Requirement 1.5 – submission of compliance letter with major (more than 2 deviations) deviations from the scope of work.
6.	Requirement 1.6 – submission of High-level method statement with any two (2) systems not addressed as per the requirement 1.6.
	<b>WELDING REQUIREMENTS</b>
1.	Requirement 3.1 – submission of 1 out of 3 relevant completion certificate/testimonial letter/reference letter for civil consulting works.
2.	Requirement 3.2 – submission of 1 out of 3 relevant completion certificate/testimonial letter/reference letter for civil construction works.
3.	Requirement 3.3 – submission of CV and relevant qualification, the reflects between 1 to 3 years of relevant working experience.
	<b>CIVIL REQUIREMENTS</b>
1.	Requirement 3.1 – submission of 1 out of 3 relevant completion certificate/testimonial letter/reference letter for civil consulting works.
2.	Requirement 3.2 – submission of 1 out of 3 relevant completion certificate/testimonial letter/reference letter for civil construction works.
3.	Requirement 3.3 – submission of CV and relevant qualification, the reflects between 1 to 3 years of relevant working experience.

	ELECTRICAL REQUIREMENTS
1.	Non-compliance or deviation with sections of the technical specifications and standards without adequate explanation or alternatives.
2.	
3.	
4.	

### 3.6.2 Exceptions / Conditions

**Table 7: Acceptable Technical Exceptions / Conditions**

Risk	Description
1.	None
1.	
2.	
3.	

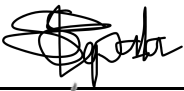




**Table 8: Unacceptable Technical Exceptions / Conditions**

Risk	Description
1.	None
2.	
3.	
4.	



#### 4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation	Signature
Sibonokuhle Tapala	Senior Engineer – Auxiliary Engineering - Duvha PS	
Vusi Chirwa	System Engineer (Civil) - Auxiliary Engineering - Duvha PS	
Thilivhali Muthakhi	System Engineer (Civil) - Auxiliary Engineering - Duvha PS	
Thokozani Xulu	System Engineer (Electrical) - Electrical Engineering - Duvha PS	
Sumayyah Sulliman	Chief Engineer – WTP Generation	

#### 5. REVISIONS

Date	Rev.	Compiler	Remarks
October 2024	0.1	Y Mgwebi	Draft report
November 2024	01	Y Mgwebi	Final Report

#### 6. DEVELOPMENT TEAM

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

- Thokozani Xulu
- Vusi Chirwa
- Sumayyah Sulliman
- Yamkela Mgwebi
- Sibonokuhle Tapala

#### 7. ACKNOWLEDGEMENTS

- N/A

#### **CONTROLLED DISCLOSURE**

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