	<p align="center">Scope of Work</p>	<p align="center">Matimba Power Station</p>
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Title: **Scope of work for the dismantling of the old Matimba weather mast**

Unique Identifier: **SOW/204/001**

Alternative Reference Number: **N/A**

Area of Applicability: **Engineering**




Documentation Type: **Scope of Work**

Revision: **0**

Total Pages: **13**

Next Review Date: **NA**

Disclosure Classification: **CONTROLLED DISCLOSURE**

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1. INTRODUCTION

The purpose of this document is to define the technical scope of work for establishing a contractor to demolish the old Matimba 450S WEBB guyed weather mast. This project is needed for safety compliance, as not executing the project will result in the structure potentially collapsing, posing a hazard to employees, nearby powerlines and infrastructure.

2. SUPPORTING CLAUSES

2.1 SCOPE

This document outlines the applicable requirements, specifications, and criteria for tender qualification.

2.1.1 Purpose

The purpose of this document is to clearly outline the scope of work for the dismantling and the decommissioning of the old Matimba weather mast.

2.1.2 Applicability

Function / Section	Department													
	Power Station General	Engineering	Maintenance	Operating	Production	Outage	Projects	Human Resources	Finance	Procurement	Risk & Assurance	Compliance	Environment	Contractors
Turbine		X												

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] ISO 9001 Quality Management Systems.
- [2] ISO 45001 Occupational Health and Safety Management System.
- [3] ISO 14001 Environmental Management System.
- [4] 240-105658000 Supplier Quality Management Specification
- [5] 240-163949531 Eskom Quality Control Procedure

2.2.2 Informative

- [6] PG/240/006 Matimba Environmental Policy Statement.
- [7] PG/240/008 Matimba Environmental Management Requirements for Contractors.
- [8] PS/270/091 Matimba Occupational Health and Safety Manual.

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2.3 DEFINITIONS

Definition	Description
Contractor	The company, partnership, or individual appointed under contract to carry out the works defined in the Scope of Work. The Contractor is responsible for executing the works in compliance with the contract requirements, including safety, quality, technical standards, and all applicable procedures.
Employer / Client	Eskom Matimba Power Station
Guy	A rope, cable, or wire used to brace or support a structure. It provides tension and stability to the structure, preventing it from falling over or leaning due to wind or other forces.
Project Manager	The person appointed by the Employer to oversee and coordinate the execution of the works, manage contract compliance, review submissions, and act as the primary point of contact between the Employer and the Contractor

2.4 ABBREVIATIONS

Abbreviation	Description
FLOC	Functional Location Code (KKS)
N/A	Not Applicable
NCR	Non-Conformance Report
ORHVS	Occupational Regulations for High Voltage Systems
PS	Power Station
PTW	Permit to Work
QA	Quality Assurance
QC	Quality Control
QCP	Quality Control Plan
SHE	Health, Safety and Environment

2.5 ROLES AND RESPONSIBILITIES

Responsibilities of role players are defined in various Matimba procedures.

2.6 PROCESS FOR MONITORING

N/A

2.7 RELATED/SUPPORTING DOCUMENTS

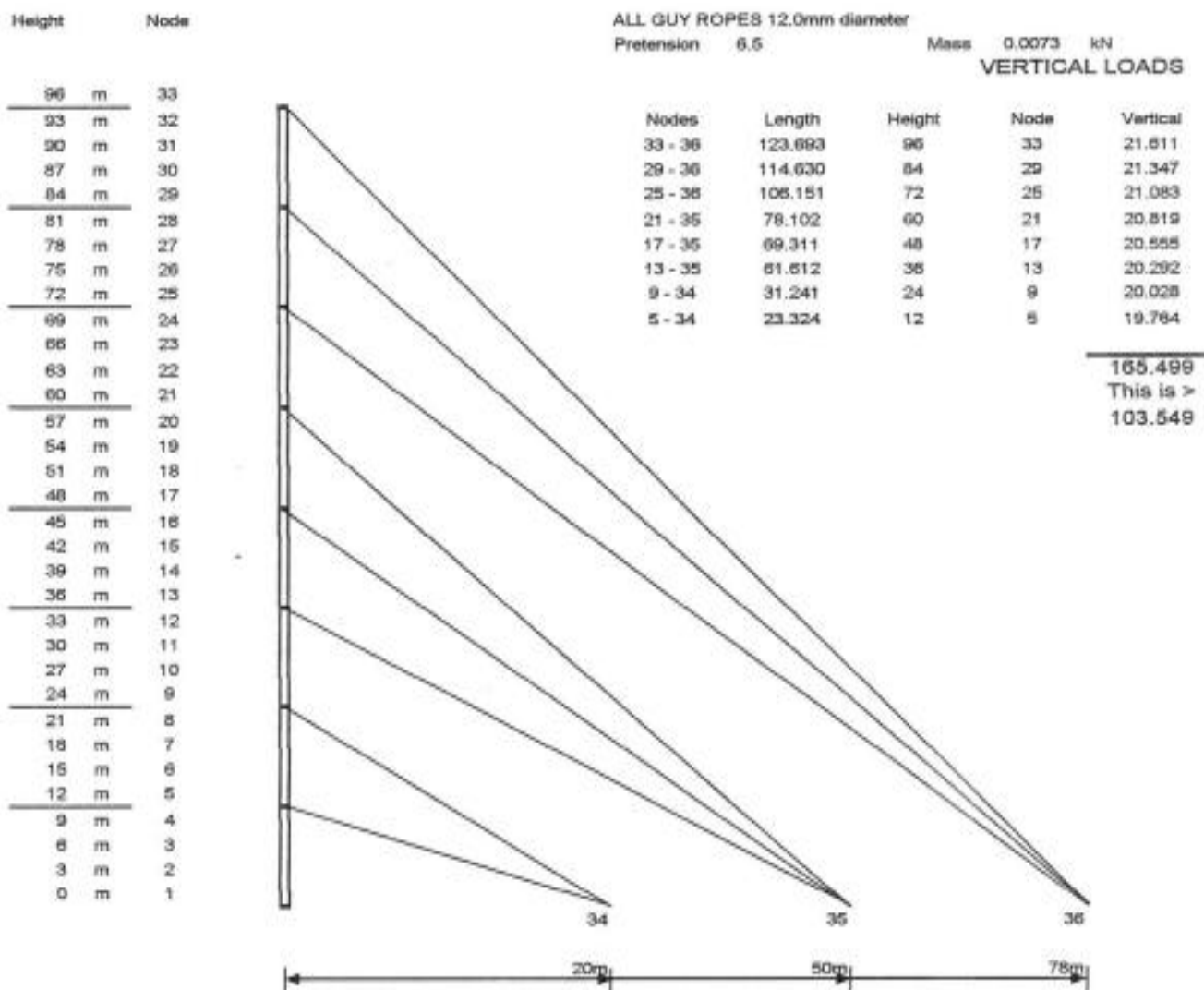
N/A.

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3. SCOPE OF WORKS INFORMATION

3.1 BACKGROUND

The 96-meter-high 450S WEBB guyed mast is supported at three levels by a system of anchored guy wires. The guy wire support system extends radially up to 78 meters from the centre of the mast. Vertical stability is provided by both the mast foundation and the vertical force component of a series of 12 mm diameter guy wires. Horizontal stability is achieved through the tensile support of the guy wires anchored at various elevations. The guy levels are spaced at 12-meter vertical intervals, with anchoring positions located at radial distances of 20 meters, 50 meters, and 78 meters from the mast base, as illustrated in **Figure 1** and **Figure 2** below. The mast is instrumented with meteorological equipment, including a data logger, wind monitor, barometric pressure sensor, rain gauge, temperature probes, and radiation shields.



Note: THE VERTICAL MASS & CORRECT PRETENSION IN THE GUY ROPES ALONE EXCEED THE ALLOWABLE CAPACITY OF THE MAST

Figure 1: Matimba 96m 450S WEBB guyed mast layout

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Figure 2: Matimba weather mast perspective view

The existing weather mast is located in close proximity to surrounding infrastructure, including a building situated approximately 46 meters from the base of the mast, as shown in **Figure 3** below. Given the height of the mast (96 meters), this building falls well within the potential fall radius, should the structure collapse in an uncontrolled manner. This proximity highlights the critical need for a carefully planned and staged dismantling process to ensure the safety of nearby structures, personnel, and the surrounding environment. This serves to illustrate the spatial relationship between the mast and adjacent facilities, reinforcing the importance of stringent safety measures and precision during execution of the works.

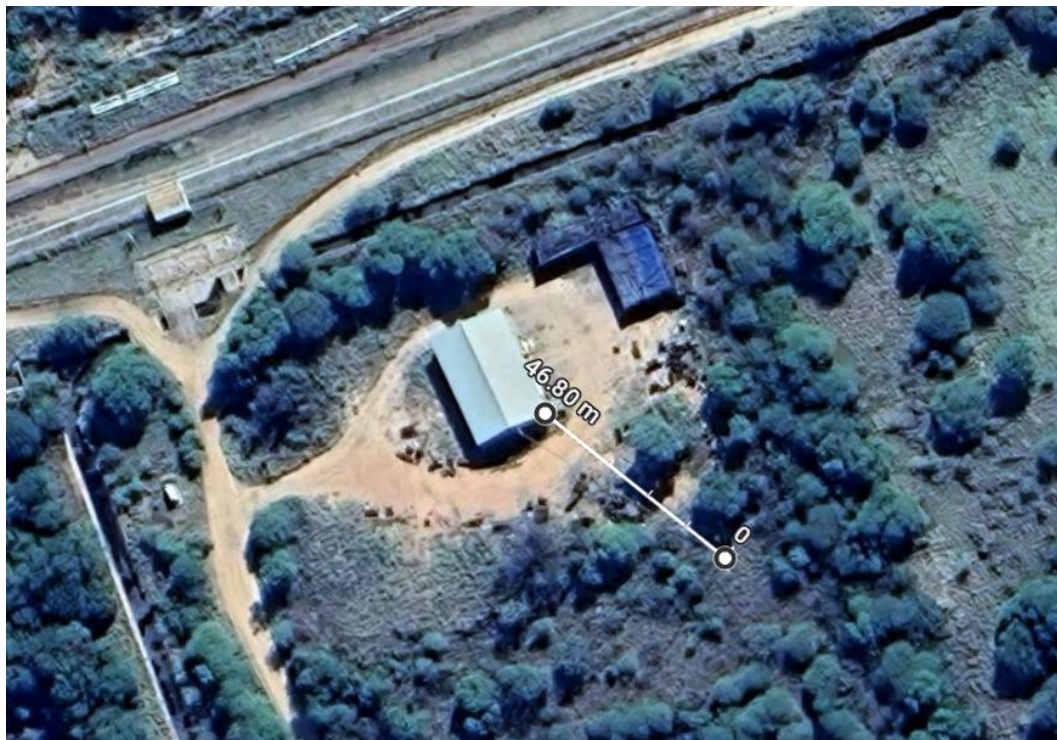


Figure 3: Satellite View of the Proximity of Weather Mast to Adjacent Building

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In addition to the nearby building, there is also a perimeter fence located within the potential fall radius of the tower. As shown in **Figure 4** below, the fence lies approximately 87.86 meters from the base of the tower. This further emphasizes the constrained nature of the site and the importance of clearly defined exclusion zones and controlled access during dismantling activities to mitigate any potential safety risks.



Figure 4: Satellite View of the Proximity of the Weather Mast Base to Perimeter Fence

3.2 SCOPE OF WORK

The contractor responsible for dismantling the current weather mast must perform the following:

- Notify the provincial director in writing as per the Occupational Health and Safety Act and Regulations 85 of 1993, Construction Regulations, Section 3.
- Provide to Eskom a detailed Risk assessment of the dismantling process of the 96m guyed lattice mast as per the scope of work provided by the contractor.
- Comply with the Occupational Health and Safety Act and Regulations 85 of 1993, Construction Regulations, Section 12 regarding Demolition of work.
- Conduct a geotechnical investigation to ensure that the soil has sufficient bearing capacity to support the equipment that will be used to dismantle the mast.
- Provide Eskom with a detailed method statement report signed off by the Contractor's appointed qualified Rigger. The method statement must describe all activities in detail.
- Provide Eskom with a detailed schedule of activities and estimated duration.
- Provide Eskom with geotechnical investigation report signed off by the Contractor's appointed Engineer.
- Before dismantling, the contractor shall remove all instrumentations from the mast without damaging them.
- The dismantling of the current mast must be done in a safe manner.

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- Dismantle the mast structure into small sections that can be transported to the waste sorting area.
- The contractor must remove all weather instrumentations to an area pointed out by the client.
- The contractor must remove all weather mast structures and transport them to an allocated waste sorting area within Matimba Power Station.

3.3 EMPLOYER'S OBJECTIVES AND PURPOSE OF WORKS

3.3.1 Project Purpose

The purpose of this project is to dismantle and decommission the current 96m guyed lattice mast structure which is unsafe to climb.

3.4 HEALTH AND SAFETY RISK MANAGEMENT

3.4.1 General

The *Contractor* shall comply with the following health and safety requirements:

- Matimba Power Station Health and Safety Standards, as per Matimba Power Station Health & Safety Specifications for Contractors (PG/240/008) attached to the Invitation to Tender. This procedure will be handed over during tender enquiry and will enable the successful Tenderers to compile a Health & Safety plan that has to be approved by the *Employer* prior to commencement of work.
- Full compliance with Eskom & Matimba Power Station's No Smoking Policy.
- Adherence to the Occupational Health and Safety Act (OHS Act 85 of 1993) and all associated regulations.
- Mandatory Safety Induction for all Contractor personnel, to be conducted by Matimba Risk Management Department prior to site access
- Compliance with the Employer's site regulations as stipulated in Form PG/240/008, including but not limited to:
 - Maintaining clean and orderly work areas ("clean lines").
 - Proper storage and handling of materials.
 - Implementation of safety precautions and fire prevention measures.
 - Strict adherence to permit to work (PTW) system.
 - Coordination with other Contractors on site.
 - Representation of sub-Contractors.
 - Involvement of maintenance staff in witnessing demolition activities.
 - Adequate supervision of works.
 - Formal handover of completed works.
 - Contractor's site establishment and demarcation.

3.4.2 Matimba Permit to Work System

The *Contractor* will ensure full familiarity with the requirements of Eskom's Plant Safety Regulations and the Occupational Regulations for High Voltage Systems (ORHVS) and shall comply with these regulations at all times during the execution of the works.

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The *Contractor* supervisor who is directly involved in Eskom's Permit to Work system shall undergo the required training and, upon successful completion of Matimba's authorization and evaluation process, shall be formally authorized as Responsible Persons.

The Responsible Person shall ensure the following:

- Strict adherence to the conditions specified in permits and cautionary notices.
- Full compliance with all lockout procedures, both mechanical and electrical. Any deviations identified shall be immediately corrected shall be corrected immediately.
- All work is conducted in accordance with the safe work procedures prescribed by Matimba Power Station and as determined by site-specific risk assessments.
- A daily discussion with workers on the contents of the worker register and all relevant cautionary notices.

3.4.3 SHE Documentation Required from the Contractor at Tender

The Contractor shall provide the following documents in terms of Health, Safety and Environmental (SHE) performance, should the Contractor not provide this information it will be assumed that it does not exist:

3.4.3.1 Health and Safety Plan (Construction Regulations)

The *Contractor* shall compile and submit a project-specific Health and Safety Plan, filed in a comprehensive Health and Safety File. Healthy and safety file should be compiled in line with attached Health and Safety File Guideline Index provided with the tender documentation.

3.4.4 Occupational Health and Safety Act 1993, Section 37

The *Contractor* shall comply with the following:

- The Occupational Health and Safety Act, 1993, and all Regulations made there under.
- All Employer Safety and Operating Procedures, which are attached hereto.

The *Contractor* acknowledges that they are fully aware of the requirements outlined above and undertake to employ only individuals who have been duly authorized in terms thereof and have received sufficient safety training to ensure compliance therewith.

The *Contractor* undertakes not to allow anything to be done which will contravene any of the provisions of the Act, Regulations or Safety and Operating Procedures.

The *Contractor* shall appoint a person who will liaise with the Employer Safety Officer responsible for the premises relevant to this contract. The person so appointed shall on request:

- Supply the *Employer* Safety Officer with copies of minutes of all Health and Safety committee meetings, whenever he is required to do so.
- Supply the *Employer* Safety Officer with copies of all appointments in respect of Employees employed on this contract, in terms of the Act and Regulations and shall advise the *Employer* Safety Officer of any changes thereto.

Employer may, at any stage during the currency of this agreement be entitled to:

- Do safety audits at the *Contractor's* premises, its workplaces and on its Employees.
- Refuse any Employees, sub-Contractor, or agent of the *Contractor* access to its premises if such person is found to commit any unlawful act or any unsafe working practice or is found to be not authorised or qualified in terms of the Act.
- Issue the *Contractor* with a work stoppage should Employer become aware of any unsafe working procedures, conditions or any non-compliance with the Act, Regulations and Procedures by the

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Contractor or any of its Employees, sub-Contractors or agents. Stoppages of this nature will not constitute a compensation event.

3.4.5 Housekeeping

All working areas shall be cleaned and tidied daily. Electrical cables, hoses, and similar equipment shall be routed to avoid crossing floors, walkways, or roadways, to prevent tripping hazards and maintain safe access routes. All tools and equipment shall be stored neatly and in designated areas, ensuring they do not obstruct access or interfere with ongoing activities.

3.4.6 Barricading

Access to danger zones shall be restricted using handrail-type physical barriers with a minimum height of 1.2 meters, designed to effectively prevent unauthorized entry. Symbolic safety signage indicating "Danger" and "No Entry" shall be prominently displayed on the barriers in accordance with applicable safety standards.

3.4.7 Hazardous Waste

All waste introduced to and/or produced on Employer's Premises by the Contractor for this order, must be handled in accordance with the minimum requirements for the Handling and Disposal of hazardous waste in terms of Government Legislation as proclaimed by the Department of Water Affairs and Forestry 1994 Ref.: BN0621-16296-5.

3.4.8 Environmental Management

The Contractor and all personnel under their control shall comply with Matimba Power Station's Environmental Policy (Document No. PG/240/006). It is the Contractor's responsibility to obtain and familiarize themselves with the Environmental Policy, the legal register applicable to their scope of work, the environmental aspect register, and the relevant Matimba environmental procedures. These documents must be reviewed within 30 days from the commencement of work to ensure the Contractor and their employees are equipped to prevent pollution and meet all applicable legislative requirements. Copies of the required documents shall be obtained from the Project Manager or Environmental Officer on the first day prior to the start of work at Matimba. The Contractor shall provide proof to the Matimba Environmental Officer that all relevant employees have received training on the procedures, registers, and policies provided, and that they understand and will adhere to them at all times. Non-compliance with Matimba's Environmental Policy and associated environmental rules may lead to termination of the contract.

3.5 QUALITY ASSURANCE REQUIREMENTS

3.5.1 Quality Management System

The *Contractor* shall implement and maintain a quality management system that as a minimum meets the requirements of Generation Standard GGS 0462 Quality Management for Engineering and Construction Works. If the *Contractor* is registered, the appropriate ISO 9001:2000 Registration certificate of compliance must be supplied with the tender.

The *Contractor* further ensures that the subcontractor's programmes comply with the requirements of the Works Information.

The *Contractor* notifies the Project Manager of any changes to the Quality System and obtains agreement prior to implementation on existing orders and contracts, or sub orders and subcontracts.

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3.5.2 Quality Control Plan

The *Contractor's* quality control plans shall include inspection and test proposals for all items or activities to be executed or supplied as part of the works. These plans shall detail, where applicable:

- The identification of each item.
- The materials to be used.
- A sequential list of operations including inspections and tests.
- For each operation, the applicable specifications, drawings, or procedures shall be clearly referenced.
- The quality control plan shall also define the acceptance criteria, referencing the relevant technical specification, in-house procedure, national or international standard, and clause number.
- It shall identify all inspections and tests proposed by the Contractor as hold points and witness points.
- Make provision for inspections and tests nominated by the Project Manager

The quality control plan shall be submitted for review by the Project Manager to allow for the inclusion of any specific requirements, including additional hold and witness points. The *Contractor* shall not commence any work until the quality control plan has been reviewed and accepted by the *Project Manager*.

3.5.3 Inspection and Testing

The *Contractor* shall give at least 24 hours' advance notice to the Employer Supervisor and, where applicable, to the relevant Authority for inspection, tests or hold and witness points requiring their attendance. The Contractor shall confirm readiness for inspection at least 24 hours prior to the scheduled activity. Furthermore, the Contractor shall ensure that all work has been fully inspected, accepted, and properly documented internally prior to requesting any inspection by the Supervisor.

3.5.4 Quality Records

The *Contractor* shall prepare and submit to the Project Manager an index of all QA/QC, inspection, and test records prior to the commencement of work.

The *Project Manager* shall review the submitted index, determine which records are to be submitted during the course of the works, and may request amendments where necessary.

The *Contractor* shall comply with the approved index as finalized by the Project Manager.

All quality records shall clearly identify the specific items, equipment, or activities to which they relate.

The *Contractor* shall collate, index, and store these records securely in a manner that ensures they are readily retrievable.

Appropriate administrative controls shall be implemented to restrict access and prevent the inadvertent loss, alteration, or damage of records.

All quality records shall be retained by the Contractor and may only be destroyed or discarded with the written approval of the *Project Manager*.

Upon completion of the works, the *Contractor* shall compile and submit all quality records in the form of a structured and indexed data package, clearly identifying the full contents.

3.6 ENGINEERING AND THE CONTRACTOR'S DESIGN

3.6.1 Employer's Design

3.6.1.1 Supportability

The technical service and support should be fully supported from resources within the Republic of South Africa.

3.6.1.2 Reliability

The successful contractor shall provide a service that will not negatively impact on the reliability and availability of Matimba Power Station.

3.6.2 Completion

3.6.2.1 Completion of the Whole of the Works

Completion of the whole of the works is defined as follows:

- 96m guyed lattice mast dismantled and decommissioned.
- Weather mast structure and instrumentations stored or disposed properly.
- All documentation and drawings updated, accepted, and integrated into the Employer's documentation.
- All maintenance documentation, check sheets and procedures are updated, accepted, and integrated into the Employer's documentation

4. AUTHORISATION

This document has been seen and accepted by:

Name & Surname	Designation
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Nhlanhla Ncwane	System Engineer
Francois Nel	System Engineer
Kenneth Ndumo	Turbine Engineering Manager
William Madigoe	Project Manager

5. REVISIONS

Date	Rev.	Compiler	Remarks
September 2025	0	R Mange	Issued for tender and demolition works

6. DEVELOPMENT TEAM

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

- Rotshidzwa Mange
- Nhlanhla Ncwane
- Francois Nel

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7. ACKNOWLEDGEMENTS

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