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|  Eskom | Scope Of Work | Hendrina Power Station |
|--|----------------------|-------------------------------|

Title: **Demolish Old PTM Offices** Unique Identifier: HEN 02

Alternative Reference Number: **N/A**

Area of Applicability: **Engineering**

Documentation Type: **Specification**

Revision: **0**

Total Pages: **8**

Next Review Date:

Disclosure Classification: **CONTROLLED
DISCLOSURE**

CONTENTS

| | |
|--|-------------------------------------|
| 1. INTRODUCTION | 3 |
| 2. SUPPORTING CLAUSES..... | 3 |
| 2.1 SCOPE | 3 |
| 2.1.1 Purpose | 3 |
| 2.1.2 Applicability..... | 3 |
| 2.2 NORMATIVE/INFORMATIVE REFERENCES..... | 3 |
| 2.2.1 Normative | 3 |
| 2.2.2 Informative..... | 3 |
| 2.3 DEFINITIONS | 3 |
| 2.3.1 Disclosure Classification | 3 |
| 2.4 ABBREVIATIONS..... | 4 |
| 2.5 ROLES AND RESPONSIBILITIES..... | 4 |
| 2.6 PROCESS FOR MONITORING (AIR MONITORING) | 4 |
| 2.7 RELATED/SUPPORTING DOCUMENTS | 5 |
| 3. SYSTEM REQUIREMENTS..... | 5 |
| 3.1 DEMOLISHING REQUIREMENTS | ERROR! BOOKMARK NOT DEFINED. |
| 3.1.1 The high-level project scope is as follows | 6 |
| 3.2 DETAILED SCOPE | 6 |
| 4. GENERAL | 6 |
| 5. STANDARD SPECIFICATIONS | 6 |
| 6. AUTHORISATION..... | 7 |
| 7. REVISIONS | 7 |
| 8. DEVELOPMENT TEAM | 7 |
| 9. ACKNOWLEDGEMENTS | 7 |
| APPENDIX A : ADDITIONAL DOCUMENTATION | 8 |

TABLES

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1. INTRODUCTION

According to Eskom article written by risk and sustainability division, in the mid-1970s Eskom started the phasing out of asbestos in our plants, including asbestos lagging material. Eskom's strategy is to phase out asbestos as soon as possible but not later than November 2033.

PTM Offices next to Howden site has been identified as a building that contains asbestos material in its structure, thus need to be demolished. The office block is not in use anymore. The building has aged and it's unrepairable. The occupants are relocated to other buildings, and this happened in 2015.

Hendrina Power Station is taking proactive steps to eliminate or phase out asbestos or Asbestos Containing Material (and to replace them with non-asbestos-containing materials); to manage existing asbestos structures/materials/equipment and perform asbestos-related work in a safe manner in order to control the potential for exposure to asbestos.

2. SUPPORTING CLAUSES

2.1 SCOPE.

This document describes the technical requirements for the Demolition of Old PTM asbestos offices for Hendrina Power Station.

2.1.1 Purpose

The purpose of this document is to provide guidance and specify the requirement for the demolition of the Old PTM asbestos offices for Hendrina Power Station

2.1.2 Applicability

The document shall apply at Hendrina Power Station within Eskom Holdings Limited.

2.2 NORMATIVE/INFORMATIVE REFERENCES

2.2.1 Normative

[1] ISO 9001 Quality Management Systems.

2.2.2 Informative

[2] Mine Health and Safety Act, 1996 (Act No 29 of 1996)

[3] Occupational Health and Safety Act (OHSA) Act 85 of 1993

[4] National Environmental Management Act (section 28 of 1998)

2.3 DEFINITIONS

| Definition | Description |
|------------|-------------|
| N/A | |

2.3.1 Disclosure Classification

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

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2.4 ABBREVIATIONS

| Abbreviation | Description |
|--------------|---|
| AAIA | Approved Asbestos Inspection Authority |
| PTM | Protection, Telecommunication & Metering |
| OEL | Occupational Exposure Limit |
| OEESM | Occupational Exposure Sampling Strategy Manual |
| MDHS | Methods for the Determination of Hazardous Substances |
| NHBRC | National Home Builders Registration Council |

2.5 ROLES AND RESPONSIBILITIES

Civil System Engineer

Auxiliary Engineering Senior AdvisorAuxiliary

Engineering Manager

2.6 PROCESS FOR MONITORING (AIR MONITORING)

(1) Where exposure is in excess of half the OEL for asbestos, an employer shall ensure that a measurement programme of the concentration of airborne regulated asbestos fibres to which an employee is exposed, is—

(a) carried out in accordance with these Regulations.

(b) carried out only after the relevant health and safety representative or relevant health and safety committee has been informed thereof and was given a reasonable opportunity, as mutually agreed upon, to comment thereon.

(c) carried out by—

(i) an approved asbestos inspection authority; or

(ii) a person whose ability to do the measurements is verified by an approved asbestos inspection authority.

(d) representative of the exposure of employees to the airborne asbestos fibres in accordance with sub regulation (2); and

(e) verified in accordance with sub regulation (3) if the measurements are carried out by a person contemplated in sub regulation (1)(c)(ii).

(2) In order to comply with the provisions of sub regulation (1)(d), an employer shall ensure—

(a) that the measurement programme—

(i) in the case of a group measurement, makes provision for the selection of the number of persons for a sample to be done as contemplated in chapters 3 and 4 and table A-2 of Technical Appendix A of the OEESM: Provided that measurements of exposure shall be by personal sampling taken in accordance with MDHS 39/4: Provided further that in so far as any provision of the OEESM and the MDHS 39/4 is

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repugnant to a provision of the Occupational Health and Safety Act, 1993, and these Regulations, the provisions of the Act and these Regulations shall take precedence; and

(ii) if in the case of the most exposed employee measurement, the exposure exceeds the OEL for asbestos, then any other employee whose exposure could be above the OEL for asbestos is identified and that measurements representative of typical exposure shall be carried out on every employee identified; and

(b) that representative measurements contemplated in sub regulation 1 (d) are carried out at least every 12 months: Provided that whenever the OEL for asbestos is exceeded, regulation 11 shall apply.

(3) In order to comply with sub regulation (1)(e), an employer shall obtain the services of an approved asbestos inspection authority who shall, at intervals not exceeding 12 months, do the required verification—

(a) by examining the measurement and analysis equipment of the employer.

(b) by questioning the person contemplated in sub regulation (1)(c)(ii) regarding the measurement programme.

(c) by carrying out, together with the person contemplated in sub regulation (1)(c)(ii), the measurement programme required by sub regulation (2) for any one group: and

(d) by ensuring that the results of the measurement and investigation as contemplated in sub regulation (2) and (3) respectively, have been recorded as required by regulation 16.

2.7 RELATED/SUPPORTING DOCUMENTS

Not applicable

3. SYSTEM REQUIREMENTS

3.1 DEMOLISHING REQUIREMENTS

Hendrina Power Station intends to demolish old asbestos PTM offices. The works includes demolition of whole building and remove all the rubbles and transport it to the approved waste handling site.

- Application of Asbestos approval from department of labour
- Notification of Asbestos
- Demolition methods
- Supervision
- Technical Assessment: Accreditations relating to works (Grading, NHBRC, Technical ability and etc.)
- Provides the necessary transport, tools, material, labour and equipment for the completion of the works.
- Provides their own equipment to detect underground cable and underground pipes.
- Submits submit the AAIA certificate

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3.1.1 The high-level project scope is as follows:

- The scope of work includes but not limited to the following
- Demolition Permit Application and Approval.
- Site clearance.
- Install Barricading
- Surveys and Risk Assessment (Daily Activity with Site Walk-downs).
- Isolations and Decommissioning (Electricity and Water Supply).
- Demolish the Existing structure
- Removal of all underground services (waste water, sewage, remaining cables, etc.).
- Site de-establishment.
- Handover to the client.

3.2 DETAILED SCOPE

- Site Establishment (Offices, Equipment, Ablutions, Material storage facilities and any other equipment needed to execute the necessary works)
- Barricade work site with solid barricading
- Demolition to meet all required works. Contractor to perform Cable detection and verify all cables before commencing works. Provisions for identified services to be communicated and approved alongside Client.
- The contractors' evaluations are to be strictly based on their **Method Statement** (Environmental, Health and Safety team to evaluate the said procedures of execution). The team comprises of the personnel from the following departments
 - Safety Risk Management.
 - Environmental Management.
 - Auxiliary Engineering (Civil).
- Remove all waste material from construction site. Disposal must be as per Material MSSD specification from Manufacture's specification
- Handover to Client.
- Site Disestablishment.

3.2.1 Works and compliancy

- All works to comply with Occupational Health and safety Act (Asbestos regulation 2001, updated to 10 February 2002)

4. GENERAL:

- Not Applicable

5. STANDARD SPECIFICATIONS

The latest edition, including all amendments up to date of tender of the following specifications, publications and codes of practice shall be read in conjunction with this specification and shall be deemed to form part thereof:

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Specification of Materials and Methods:

Asbestos Regulation 2001 (updated to 10 February 2002)

6. AUTHORISATION

This document has been seen and accepted by:

| Name & Surname | Designation |
|---------------------------|--------------------------------------|
| | Auxiliary Engineering Manager |
| | Auxiliary Engineering Senior Advisor |
| | |

7. REVISIONS

| Date | Rev. | Compiler | Remarks |
|-------------|-------------|-----------------|------------------|
| July 2023 | 0 | | Initial Document |

8. DEVELOPMENT TEAM

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

9. ACKNOWLEDGEMENTS

N/A

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APPENDIX A: ADDITIONAL DOCUMENTATION

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