



Scope of Work – Substation Engineering

Technology

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Compiled by

Abdullah Kaka

Civil Engineer

Substation Engineering

Date: 05/02/2020

Functional Responsibility

Senzo Duma

Civil Engineer

Substation Engineering

Date: 05/02/2020

Authorised by

Andile Maneli

Middle Manager (Civil)

Substation Engineering

Date: 7-02-2020

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1. INTRODUCTION

The initiation of this project is motivated based on Eskom's commitment to the compliance of legal and other requirements and to ensure that occupational health and safety risks to Eskom employees and contractors are eliminated or reduced.

In compliance to the requirements of the occupational health and safety act (Act 85 of 1993), Asbestos Regulations GNR, 155 of 10 February 2002, asbestos containing material at Apollo Substation in the Gauteng was identified and compiled into an asbestos register. Asbestos containing material was found to be in the form of fascia boards, gutters, roof, ceilings, walls, downpipes, window sill and sleeve pipes. The project will ensure safe processing, handling, storing disposal and phase-out of asbestos and asbestos containing material.

A national asbestos phase out initiative was created to ensure that all asbestos and asbestos containing material are phased out by the end of 2033 within the entire Eskom business unit.

2. REFERENCES

- [1] (240-55922824) – Substation Layout Design Guideline
- [2] Occupational Health and Safety Act (OHS Act) 85 of 1993
- [3] (32-1205) – Eskom Maintenance Management Policy
- [4] (TST41-794) – Substation and Facility Maintenance
- [5] (32-727) – Eskom Safety, Health, Environment and Quality policy
- [6] (32-846) – Operating Regulations for High Voltage Systems
- [7] (SANS 1200) – General Civil
- [8] SABS 10229-1:2010 – Transport of Dangerous Goods
- [9] SABS 10231:2019 – Transport of dangerous goods by road
- [10] National Environmental Management Waste Act 59 of 2008
- [11] OHS Act (Act 85 of 1993)
- [12] APO19P22-SE-D87 – Detail Design Report

3. SCOPE OF WORK

The scope of work entails the removal of all asbestos material at Apollo Substation and Pietersburg Repeater Station. The following is a breakdown of materials to be removed and replaced except where specified.

3.1 APOLLO SUBSTATION

3.1.1 Converter Station

The following items are listed with locations of items listed below.

3.1.1.1 Ceilings

- Outside Building at Security Office
- Building 2 at HV Eating Area

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- Gym, change room, toilets and showers

3.1.1.2 Facia Boards

- Security Office
- HV Plant Building
- Building 2 at HV
- Outside building at battery room

3.1.1.3 Window Sills

- HV Plant Main Building
- Maintenance Building
- Main Building

3.1.1.4 Water Tank

- Inside control building

3.1.1.5 Floor Tiles

- Second floor building passage
- Inside battery room at main building

3.1.2 Old Compound

3.1.2.1 Roofs and Facia Boards

These items will be removed and not replaced

- Old compound

3.1.3 Dog Cannel

These items will be removed and not replaced

3.1.3.1 Roofs and Facia Boards

- Dog cannel roof

3.1.4 Club

These items will be removed and not replaced

3.1.4.1 Walls

- All walls surrounding the club house

3.2 PIETERSBURG REPEATER STATION

All facia boards and ceilings shall be removed and replaced

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4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
Abdullah Kaka	Engineer Engineering - Civil
Senzo Duma	Engineer Engineering - Civil
Andile Maneli	Middle Manager – Civil

5. REVISIONS

Date	Rev.	Compiler/s	Remarks
5 February 2020	1	A. Kaka	First Issue

6. DEVELOPMENTAL TEAM

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

- Abdullah Kaka

7. ACKNOWLEDGEMENTS

None

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