Eskom	**SoW**	**Camden Power Station**

Title: **Removal of the diesel tanks**

Document Identifier:	**240-148301544**
Alternative Reference Number:	
Area of Applicability:	**Engineering**
Functional Area:	**Auxiliary**
Revision:	**02**
Total Pages:	**07**
Next Review Date:	**October 2022**
Disclosure Classification:	**Controlled Disclosure**

Content

1. Introduction

This document contains the scope of work for the removal of the belowground diesel tanks located behind *Stores*.

2. Supporting Clauses

2.1 Scope

2.1.1 Purpose

The purpose of this scope of work is to give detailed instructions regarding the removal of the belowground diesel tank.

2.1.2 Applicability

This document shall be applicable at Camden Power station.

2.1.3 Effective date

This document will be effective after it has been signed for Authorisation.

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] OHSACT

2.2.2 Informative

[1] SANS 1200 C: Standardized specification for civil engineer Section C: Site clearance

[2] SANS 1200 DA: Standardized specification for civil engineer Section DA: Earthworks (small works)

[3] SANS 10087-3: The handling, storage, distribution and maintenance of liquefied petroleum gas in domestic, commercial, and industrial installations.

2.3 Definitions

Definition	Description
Liquefied petroleum gas	In this document this refers to diesel
Mod AASHTO	A standard used to measure the degree of compaction

2.3.1 Document:

N/A

2.4 Abbreviations

Abbreviation	Explanation
ISO	International Organization for Standardization
OHSACT	Occupational Health and Safety Act
SANS	South African National Standards
CPS	Camden Power Station
AASHTO	American Association of State Highway and Transportation Officials
PTW	Permit To Work

2.5 Roles and Responsibilities

- Auxiliary engineering : Scope of Work development
- Auxiliary maintenance : Scope of Work Execution
- Environmental Department : Screening and Advice

2.6 Process for Monitoring

N/A

2.7 Related/Supporting Documents

N/A

3. Scope of Work

3.1.1 Current condition (tanks by *Stores*)

The two tanks are located under the proud concrete area partially covered by the existing shelter behind *Stores*. These tanks are perpendicular to the *Stores* building and each tank has a storage capacity of 4500L. Most decommissioned underground storage tanks are usually not completely emptied. The underground tanks adjacent to *Stores* have not been in use for years and as soon as they start to deteriorate, they may begin to contaminate the environment with their residual content. This prompts the importance of removing decommissioned buried storage tanks. Due to the danger associated with the removal of such tanks, it is recommended that the relevant authorities at CPS (environmental, fire, and safety department) are briefed prior to the removal of the tanks.

Figure 1: Location of the belowground diesel tank

3.1.2 Instructions to remove the tank

The steps below shall be followed during the removal of the tanks to mitigate the risk of fire and the contamination of the environment. A certified contractor must be appointed for this work to ensure that all environmental regulations and safety guidelines are followed during the extraction of the tanks.

- Notify the relevant authorities prior to the commencement of the activities involved in removing the underground tanks. The authorities mentioned in 3.1.1 must be standby during the actual extraction of the tanks.
- Obtain PTW: (PTW - Confined space and hot work PTW). No work will be commenced without obtaining the abovementioned PTW.
- Request ground scans from EMD to ensure that the excavation doesn't come across electrical lines.

- Fire extinguishers must be included as part of the equipment to be used during the extraction of the tanks.
- Empty the tanks of any residual material and follow a proper and safe procedure to dispose the flammable residual material.
- Begin excavation by breaking the proud concrete slab and removing the soil around the tanks for full access to the tanks and any other connected lines/pipes.
- Mitigate the risk of an explosion by purging the tanks with nitrogen gas or carbon dioxide.
- Hook each tank with a crane and extract it from the ground.
- Prepare the tanks for disposal by ensuring that they are free of any flammable vapour and residual sludge.
- Load the tanks on the truck and transport them to a temporary storage site approved by the End user (*Stores*).
- The scrapping process of the tanks will be done by *Stores*.

3.1.3 Rehabilitation of the area

Once the tank is removed, it is required that the area is reinstated to its current condition. The following activities shall be carried out.

- Contaminated soil resulting from cleaning the tanks and the disconnecting of pipes must be carefully removed and disposed to a site approved by the Client. This includes the rubble from breaking the concrete slab.
- Backfill the excavation with a suitable material and compact to 93% mod. AASHTO.

NB! All work shall be done in accordance with the safety regulations and the OHS act.

4. Acceptance

This document has been accepted by

Name	Designation

5. Revisions

Date	Rev.	Compiler	Remarks

6. Development Team

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

7. Acknowledgements

N/A