

	Scope of Work	Camden Power Station
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1. Introduction

In terms of National Environmental Management Act, 107 of 1998, section 28 (1): Every person who causes, has caused or may cause significant pollution or degradation of the environment must take reasonable measures to prevent such pollution or degradation from occurring, continuing or recurring, or, in so far as such harm to the environment is authorised by law or cannot reasonably be avoided or stopped, to minimise and rectify such pollution or degradation of the environment.

Thus, a specialised cleaning services supplier covering confined space cleaning, high pressure cleaning, tank cleaning, laboratory cleaning and bulk material handling must be on call 24 hours to provide these services for Camden Power Station when we have fuel oil and/or chemical spillages incident/event.

2. Supporting Clauses

2.1 Scope

2.1.1 Purpose

The purpose of the 24-hour Spill Response contract for Camden Power Station is to ensure emergency preparedness and rapid response during hazardous substances spillage incidents and/or execute bioremediation/rehabilitation process known and/or suspected contaminated areas at Camden Power Station.

2.1.2 Applicability

This document shall apply throughout Camden Power Station.

2.1.3 Effective date

This document is effective from the day it is authorised.

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 14001:2015 Environmental Management System
- [3] National Environmental Management Act (Act No. 107 of 1998)
- [4] National Environmental Management Waste Act (Act No. 59 of 2008)

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[5] National Water Act (Act No. 36 of 1998)

2.2.2 Informative

[6] 32-245 Eskom Waste Management Standard

[7] 32-727 Eskom SHEQ Policy

[8] DFFE Minimum Requirements for Handling, Classification and Disposal of Hazardous Waste

[9] 229-12295 Waste Management Procedure

[10] 240-133087117 Environmental Incident Management Procedure

2.3 Definitions

2.3.1 Emergency Incident:

An unexpected sudden occurrence, including a major emission, fire or explosion leading to danger to the public or potentially serious pollution of or detriment to the environment, whether immediate or delayed (NEMA) and an accident involving the spilling of a harmful substance that finds or may find its way into a water resource (NWA)

2.3.2 Pollution:

Is the introduction of contaminants into the natural environment that causes adverse change.

2.3.3 Suppliers:

Suppliers include contractors and consultant providing a service to the organization.

2.4 Abbreviations

Abbreviation	Explanation
EMS	Environmental Management System
DFFE	Department of Forestry, Fishery, and the Environment
Hazmat	Hazardous Materials
HP	High Pressure
IBC	Intermediate Bulk Containers
LP	Low Pressure
NEMA	National Environmental Management Act (Act No. 107 of 1998)
NEMWA	National Environmental Management Waste Act (Act No. 59 of 2008)
ISO	International Organization for Standardization
PPE	Personal Protective Equipment
SCBA	Self-contained Breathing Apparatus

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2.5 Roles and Responsibilities

Not Applicable

2.6 Process for Monitoring

Not Applicable

2.7 Related/Supporting Documents

Not Applicable

3. Scope of Work: 24-hour emergency response

Environmental High-Risk 24-hour emergency response waste removal originate from Camden Power Station operating, production and maintenance strategy that require a quick response to maintain and clean all types of spillages that might occur frequently at Camden Power Station due to equipment failure or human errors. The **immediate response** to all types of spillages (all oil types, acid, and other chemicals such as ammonia and chlorine) is a Station requirement to avoid major environmental incidents, continuous plant operation and limitation of fire hazards.

3.1 Services Required

The following services is required:

- Spillage clean-up services
- Specialized Industrial Cleaning (Tank & sump cleaning etc.)
- High Pressure Cleaning (HP Cleaning)
- Pollution control advice & Spill related clean-up Spill kits
- Spill kit & product training & Risk assessment
- Biodegradable, Environment friendly surface degreasers
- Bioremediation products & projects
- Historical polluted site risk assessments & clean-up
- Personal protective clothing (PPC) approved by Hazmat
- Photos of the site before clean-up and after clean-up
- Disposal of hazardous waste
- Waste manifest, in case where hazardous substance e.g. contaminated soil was disposed-of at the hazardous waste disposal site.
- Safe Disposal Certificates

3.2 Typical Emergency Equipment Requirements

The following minimum equipment is required:

- Oil and Chemical Emergency response vehicles (2) with visible safety / hazmat markings
- Mobile compressors
- Mobile chemical and hydrocarbon transfer pumps and hose

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- Mobile high-pressure washers
- Inflatable containment booms
- Waste management vehicle and bins
- Crane Trucks
- 50 000 litres Super Sucker Trucks with visible safety / hazmat markings
- Bulk Emergency Storage Containers (Drums, Tanks, IBC'S and Fast tanks)
- Assorted oil skimmers (rope skimmers, floating weir skimmers, disc skimmers, coastal bulk skimmers)
- PPE including level of chemical protective suit, SCBA sets, Level B chemical protective suits, full face air purifying respirators and supplied air respirators.

3.3 Areas expected to clean at The Station by the Supplier (Stipulated Intervals)

The **Fuel Oil Sump**, **Fuel Oil Pump house**, and **Fuel Oil Offloading** areas will be requested from The Station to be cleaned by the Supplier within the stipulated intervals as indicated in Table 1 and Table 2.

Table 1: De-sludge Areas at Stipulated Intervals

Area	Frequency
East HP Fuel Oil Sump	6 monthly
West HP Fuel Oil Sump	6 monthly
Fuel Oil Offloading Sump	6 monthly

Table 2: Industrial Cleaning at Stipulated Intervals

Area	Frequency
East HP Fuel Oil Pump House	6 monthly
West HP Fuel Oil Pump House	6 monthly
East LP Fuel Oil Pump House	6 monthly
West LP Fuel Oil Pump House	6 monthly
Fuel Oil Offloading Area	6 monthly

Fuel oil tanks desludging, waste oil tank, oil skimming plants, oil tank & diesel tanks bund walls shall be cleaned as and when required e.g., when there's a spillage or excessive silting is noticeable and de-sludge fuel oil tanks.

3.4 Step Spill Procedures

3.4.1 Assess the Risk

From the moment a spill occurs and throughout the response, the supplier will immediately dispatch a trained hazmat first responder who is able to correctly identify the goods and hazards. The first

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responder will mobilize the team who will respond with the necessary equipment and consumables. Determines risks that may affect human health, the environment and property. Always put Safety first. If possible, identify the spilled material and determine how much was spilled. The response must take place within 60 minutes after the call has been made.

3.4.2 Select Personal Protective Equipment

Choose the appropriate Personal Protective Equipment (PPE) to safely respond to the spill. Consult Material Safety Data Sheets (MSDS) and literature from Chemical and PPE manufacturers for the best recommendations. If the supplier is uncertain of the danger and the spilled material is unknown the supplier should assume the worst and use the highest level of protection.

3.4.3 Confine / Contain the Spill

Limit the spill area by blocking, diverting, or confining the spill. Use contained absorbents such as absorbent material and booms as found in our spill kits. Stop the flow of the before it has a chance to contaminate a water source. Spill kits are designed to facilitate a quick, effective response.

3.4.4 Stop the Source

After the spill is confined / contained, stop the source of the spill in consultation with the standby manager in charge so as not to interfere with the plant operations.

The Environmental Department shall notify Camden Power Station management committee of the spill and report the incident as per the Environmental Incident Management Procedure (240-133087117).

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4. Acceptance

This document has been seen and accepted by:

Name	Designation
Musa Dubazana	OPS support Manager
Dumisani Nyathikazi	Boiler Maintenance manager

5. Revisions

Date	Rev.	Compiler	Reason for change
20/07/2022	2	E Rawlinson	Renewal of contract (3 rd)
14/02/2019	1	F.N. Sithole	Second contract
15/09/2014	0	M.C. Sejake	Original Issue

6. Development Team

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

- Not applicable

7. Acknowledgements

- Not applicable

Appendix

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