

	Work Instructions	Generation Tutuka power station
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**Title: Tutuka Power Station –
Reconditioning, Service and
Maintenance of Fire Extinguishers
and Hose reels**

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**Fire Risk Management
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**Manager Fire Risk and
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CONTENTS

1. Introduction.....	3
1.1 Scope.....	3
1.1.1 Purpose.....	3
1.1.2 Applicability	3
1.1.3 Effective date.....	3
1.2 Normative.....	3
1.3 32-391 Eskom Integrated Risk Management Informative.....	3
1.4 Abbreviations	4
1.5 Roles & Responsibility.....	4
1.5.1 Employer – Service Manager	4
1.5.2 Contractor Manager.....	4
2. Requirements	4
2.1 Related/Supporting Documents.....	4
2.2 Description of Service.....	5
3. Acceptance.....	7
4. Revisions.....	8
5. Development Team	8
6. Acknowledgements	8

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1. Introduction

Tutuka Power Station has got fire extinguishers that need to be maintained and services periodically. This is with compliance with OSH Act and SANS. Tutuka Power Station does not have a workshop to perform this service. This results in getting an external service provider to perform these services.

1.1 Scope

The scope details servicing of fire Extinguishers. the project defines the work that will be performed so that the goal and objective of fire risk department can easily be achieved, thus protecting life and property through firefighting equipment that are always ready to handle any emergency that can occur.

1.2 Purpose

The purpose of this document is to specify how the service of fire extinguishers must be rendered at Eskom Tutuka Power Station. An acceptable standard and condition required by Occupational Health and Safety act 85 of 1993, National Building Regulation no.103 of 1977 and Fire Brigade Services Act 99 of 1987. It is also required to supply fire and emergency equipment as and when required bases.

1.3 Applicability

This document applies to the risk and assurance department.

1.4 Effective date

The document will be effective from the date of authorization.

1.5 Normative

- [1] 32-123 Eskom Emergency Planning Standard
- [2] 32-124 Eskom Fire Risk Management
- [3] 32-86 Integrated Risk Management Policy
- [4] 32-727 Safety, Health, and Environment (SHE) Policy
- [5] 32-108 Eskom Fire Fighting Organisation
- [6] 32-107 Eskom Fire Fighting Training Programme

1.6 Informative

- [7] SANS 1475-1- The production of reconditioned fire-fighting equipment Part 1: Portable and wheeled (mobile) rechargeable fire extinguishers.
- [8] SANS 1475-2- The production of reconditioned fire-fighting equipment Part 2: Fire hose reels and above-ground hydrants
- [9] NFPA 25, Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems.

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1.7 Abbreviations

Abbreviation	Meaning given to the abbreviation
BA	Breathing Apparatus
CO2	Carbon Dioxide
NFPA	National Fire Protection Association
DCP	Dry Chemical Powder
SANS	South African National Standards
SCBA	Self-Contained Breathing Apparatus
SAQCC	South African Qualification Certificate Committee
OH & S	Occupational Health and Safety

2. Roles & Responsibility

2.1 Employer – Service Manager

- Responsible for overall management of the Fire contract.

2.2 Contractor Manager

- The service provider shall ensure that this scope of work is executed accordingly.
- The service provider must ensure that artisan with trade test is always available to perform their duties as and when required.
- The service provider shall have his/her own transportation to conduct their duties (vehicles used should be road worthy and compliant with Eskom safety standards).

3. Requirements

3.1 Related/Supporting Documents

- ISO 9001 Quality Management Systems.
- Occupational Health and Safety Act (Act No. 85 of 1993).
- Disaster Management Act (Act No. 57 of 2002).
- Fire Brigade Services Act (Act No. 99 of 1987)
- National Building Regulations and Building Standards Act (Act No. 103 OF 1977).

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- National Veld and Forest Fire Act (Act No 101 of 1998).

3.2 Technical Requirements

- The workshop must be SABS Approved under SANS 1475-1 & SANS 1475-2. The workshop must be registered on company name.
- Eskom reserve the right to inspect the workshop to ensure compliance.
- The technicians who will be servicing/ maintaining the fire equipment must be registered with South African Qualification & Certification Committee for the Fire Industry (SAQCC).
- The company must have a minimum of three (3) years' experience in providing the service, maintenance and supply of new fire equipment.
- A minimum of three (3) job references where the company has provided fire extinguisher services must be provided. Copies of the contracts/Purchase orders where the company provided the similar service must be submitted, no reference letter will be accepted.

3.3 Description of Service

According to: SANS 1475 - The production of reconditioned fire-fighting equipment – Part 1 portable and wheeled rechargeable fire extinguishers. The required service, maintenance and supply of new fire equipment must be executed as stipulated below.

Periodically Service, repair and Maintenance of fire extinguishers, fire hose reels and breathing apparatus cylinders for a period of 3 years. Dry powder must be sifted yearly for service. Extinguishers must be returned within seven (7) working days from the date they were taken from the site. Pressure Test of Breathing apparatus Cylinders. Pressure test and Hydrostatic pressure test certificates must be returned with fire extinguishers from service. Contractor must give access to Eskom personnel for compliance inspection. The employer shall collect all fire extinguishers from the plant and deliver to Fire Station at Tutuka Power Station. Contractor will collect fire extinguisher at Fire Station. The invoice must be received with seven (7). Maintenance services shall be carried by trained and accredited technical personnel in possession of Certificates of Competence (COC) and South African Qualification Certification (SAQCC)

3.3.1 Fire Extinguishers (Portable)

DESCRIPTION	FREQUENCY
SERVICE AND MAINTAIN 1,5KG -9KG & 50KG DCP EXTINGUISHER	AS & WHEN REQUIRED
SERVICE AND MAINTAIN 2KG – 5KG CO2 EXTINGUISHERS	AS & WHEN REQUIRED
PRESSURE TEST 1,5KG. 9KG & 50KG DCP EXTINGUISHERS	AS & WHEN REQUIRED
PRESSURE TEST 2KG – 5KG CO2 EXTINGUISHERS	AS & WHEN REQUIRED
RECHARGE CO2 PER 5KG	AS & WHEN REQUIRED
RECHARGE DCP PER 2KG	AS & WHEN REQUIRED

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HYDROSTATIC TEST 300 BAR BA CYLINDERS	AS & WHEN REQUIRED
PROVISION OF FIRE HYDRANT RUBBER SEALS	AS & WHEN REQUIRED
OEM SPARES DCP EXTINGUISHER	
A. VALVE ASSEMBLY COMPLETE	AS & WHEN REQUIRED
B. PRESSURE GAUGE	AS & WHEN REQUIRED
C. DISCHARGE HOSE	AS & WHEN REQUIRED
D. VALVE SEAT	AS & WHEN REQUIRED
E. SEAL RING	AS & WHEN REQUIRED
F. SUPPLY 50KG, EXTINGUISHER	AS & WHEN REQUIRED
G. SUPPLY 9KG, EXTINGUISHER	AS & WHEN REQUIRED
H. SUPPLY 4,5KG EXTINGUISHER	AS & WHEN REQUIRED
I. SUPPLY 2,5KG EXTINGUISHER	AS & WHEN REQUIRED
J. SUPPLY FIRE EXTINGUISHER HOOK	AS & WHEN REQUIRED
OEM SPARES CO2 EXTINGUISHERS	
A. VALVE ASSEMBLY COMPLETE	AS & WHEN REQUIRED
B. SAFETY DISC	AS & WHEN REQUIRED
C. DISCHARGE HORN	AS & WHEN REQUIRED
D. SUPPLY 5KG EXTINGUISHER	AS & WHEN REQUIRED
E. SUPPLY 2KG EXTINGUISHER	AS & WHEN REQUIRED
F. SUPPLY FIRE EXTINGUISHER HOOK	AS & WHEN REQUIRED
OEM SPARES CO2 Fire Hose Reel	
Hose reel Swing drum	as & when required
Fire hose	as & when required
Water way	as & when required
Landing valve	as & when required
Fixed base	as & when required
Swing arm	as & when required

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Connecting pipe	as & when required
Nozzle	as & when required
OEM SPARES BA CYLINDERS	
Valve mechanism	AS & WHEN REQUIRED
Supply O' Ring	AS & WHEN REQUIRED

3.4 Vehicle Requirements

The vehicle used to collect and deliver fire equipment must be roadworthy and must comply with the following Eskom requirements:

- Anti-lock brakes (ABS)
- Safety belts (driver & passengers)
- Dual air bags
- Power steering
- Reflective strips
- Fire extinguisher
- Reverse warning light
- Service record
- No oil leaks
- No passengers at the back of the bakkie.

The driver and passengers must obey all vehicle safety requirements in terms of the National Road Traffic Act 93 of 1996, as amended, including other relevant provincial or local requirements.

3.5 Service Times

The service must be provided between 07:00 – 16:00 on Monday to Friday and 07:00 – 12:00 on Friday.

4. Acceptance

This document has been seen and accepted by:

Name	Designation
	Fire Risk Manager
	Risk and Assurance Manager
	Safety Risk Manager

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5. Revisions

Date	Rev.	Compiler	Remarks
January 2025	1		The scope of fire extinguisher and hose reel service contract.
October 2025	1		Grammar and spelling fix

6. Development Team

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

7. Acknowledgements

➤ None

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