	<b>Scope of Work</b>	<b>Kusile Power Station</b>
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Title: **Kusile Power Station Servicing and Maintenance of Fire and Rescue Equipment SOW**

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## **1. Introduction**

A servicing and maintenance contract is required to keep all non-plant portable fire and rescue emergency equipment at Eskom Kusile Power Station Generation Division at an acceptable standard and condition as required by Occupational Health and Safety Act (Act 85 of 1993), National Building Regulations and Building Standards Act (Act 103 of 1977), Fire Brigade Services Act (Act 99 of 1987) and other related legislation. The purpose of this document is to provide a technical scope of work for the establishment of a contract for the service and maintenance of the Kusile Power Station's portable fire protection equipment for a period of five years by a suitable and qualified service provider as stipulated in the Generation Operational Standard for Inspection and Testing of Fire and Rescue Non-Plant Equipment 240-126467668 standard.

## **2. Supporting Clauses**

### **2.1 Scope**

This document outlines the minimum requirements for the establishment of a long-term inspection, testing, servicing and maintenance of portable non-plant fire and rescue equipment contract at Kusile Power Station.

#### **2.1.1 Purpose**

The purpose of this document is to ensure that all services required by this document are communicated to and executed by the appointed service provider in accordance with relevant Eskom Standards and legislation.

#### **2.1.2 Applicability**

The document shall apply to throughout Kusile Power Station, their employees, partners and visitors.

#### **2.1.3 Effective date**

This document will be effective from the date of authorization.

### **2.2 Normative/ Informative references**

- [1] ISO 9001 Quality Management Systems
- [2] OHSAS 18001, Occupational Health and Safety Management Systems, Requirements OHSAS 18001, 2007
- [3] ISO 14001, Environmental Management Systems, Requirements with guidance for use ISO 14001, 2004
- [4] Kusile SHEQ Policy Statement of Commitment Policy 240-122710495
- [5] Eskom Standard for Emergency Planning 32-123
- [6] Fire Brigade Services Act 99 of 1987

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- [7] National Environmental Management Act 107 of 1998
- [8] Operational Standard for Inspection, Testing of Fire and Rescue Non-Plant Equipment in Generation

**2.2.1 Informative**

- [1] SHE requirements for tender enquiries.
- [2] SHE tender evaluation and scoring card.
- [3] SANS 1475-1- The production of reconditioned fire-fighting equipment Part 1: Portable and wheeled (mobile) rechargeable fire extinguishers.
- [4] SANS 1475-2- The production of reconditioned fire-fighting equipment Part 2: Fire hose reels and above-ground hydrants
- [5] NFPA 25, Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems.

**2.3 Definitions**

<b>Definitions</b>	<b>Explanation</b>
Appointed Competent Person for Fire Management	A person who is appointed by the BU in a permanent and full-time capacity to manage the station’s fire management. The incumbent must be qualified at a minimum NQF level 6 in Fire Technology, Fire Science or Disaster Management.
Approved Service Provider	A service provider who has proven competence in providing services related to the OEM requirements Inspection, testing, servicing, and maintenance of portable and mobile firefighting equipment in accordance with SANS 1475. The definition may also mean an institution recognised or authorised to supply or do inspection, testing and maintenance work on specialised fire, rescue, and hazardous material equipment.
Competent	A combination of training, skills, experience and knowledge that a person has acquired over a period of time and their ability to perform a task safely.
Equipment maintenance	Actions necessary for retaining or restoring a piece of equipment, machine or system to the specified operable condition to achieve its maximum useful life.
Equipment registers	A written record containing regular entries of detailed items of fire risk management equipment / assets.
Fire Management	The system that provides for fire safety and prevention at a site by determining the fire risk profile, fire prevention plans, human and capital fire management, resource management, operational emergency response capability, as well as the training and awareness regarding fires and other emergencies.
Operational emergency response equipment	All physical resources dedicated for use by a BU’s Emergency Response Team in an emergency situation involving

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<b>Definitions</b>	<b>Explanation</b>
	firefighting, emergency medical services, technical rescue, and hazardous material release incidents.
Service	To perform routine maintenance or repair work on a vehicle or machine.
Testing	Measures taken to check the quality, performance or reliability of something, especially before putting it into widespread use or practice.
Work	An activity involving mental or physical effort performed in order to achieve a purpose or a result.

## **2.4 Abbreviations**

<b>Abbreviation</b>	<b>Description</b>
AP	Appointed person
BU	Business Unit
CO <sub>2</sub>	Carbon dioxide
DCP	Dry chemical powder
PPV	Positive pressure ventilation
PVC	Poly vinyl chloride
SCBA	Self-contained breathing apparatus
NFPA	National Fire Protection Association
OEM	Original Equipment Manufacture
SABS	South African Bureau of Standards
SANS	South African National Standards
SAQCC	South African Qualification & Certification Committee
SHE	Safety, Health, and Environment

## **2.5 Roles and Responsibilities**

### **2.5.1 Procurement Department**

The procurement department is to ensure that the successful service provider is accredited and/ or registered with the following institutions:

- a) SABS approval for portable fire equipment service and maintenance
- b) SABS approval for fire-fighting vehicle maintenance
- c) SAQCC registration for fire industry
- d) SANS 1475 and SANS 1910 compliance

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- e) ISO 9001:2015 compliance

### **2.5.2 Service Provider**

- a) The service provider shall ensure compliance with Eskom's minimum safety requirements and all other legal requirements as may be required by Eskom.
- b) The service provider shall ensure that this scope of work is executed accordingly.
- c) The service provider shall ensure that they have an SAQCC accredited workshop. Eskom reserves the right to inspect the said workshop at any given time.
- d) The service provider shall provide a complete Quality Assurance plan in accordance with the requirements of ISO 9001:2015 to the employer for approval.
- e) The service provider must ensure that a minimum of four SAQCC registered Fire Technicians are always available to perform their duties as and when required, with a minimum of at least one site visit per month.
- f) 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).
- g) The service provider must note that should any of the equipment listed in this document fail any test and is deemed as obsolete, necessary documentation must be completed for the sake of traceability and to initiate replacement measures.

### **2.5.3 Contract Manager**

- a) The contract's manager shall ensure that the technical evaluation score sheet is supplied to the tender evaluation committee.
- b) The contract manager shall coordinate client interface, planning, and ensures compliance with all regulatory requirements.
- c) The contract's manager shall verify that the service provider executes this scope of work accordingly.

### **2.5.4 Contract Supervisor**

- a) The contract's supervisor or end-user shall ensure that the service provider executes this scope of work accordingly.
- b) He/she shall ensure that the task order is done timeously, and assessment is conducted and signed off once the task has been executed.
- c) The contract supervisor shall report any deviation by the service provider to the contract Manager as soon as he/she becomes aware of the deviation.

## **2.6 Process for Monitoring**

- a) The service provider shall submit all proof of completed work, in a form of a report, on monthly basis to the Contract Manager.
- b) The Contract Manager will conduct a monthly assessment to monitor work progress.

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- c) The service provider shall attend monthly meetings with Kusile Power Station OHS Department to discuss Key Performance Indicators.
- d) All fire equipment that leaves the site will be recorded on Kusile Power Station Removal Permit Book and will be approved by the Contract Manager. The permit book shall indicate the expected date of equipment return to site.

## **2.7 Planned Key Performance Indicators (KPI)**

The KPI will be used to determine the successful performance of the scope. The service provider is required to meet the set performance targets. The KPI's are to be agreed to between the employer (Eskom) and the service provider and are subject to change on an annual basis based on the need.

## **2.8 Related/Supporting Documents**

N/A

## **3. Document Content**

The scope of work comprises of the following but not limited to:

- i. Service and maintenance of portable and mobile fire extinguishers
- ii. Service and maintenance of fire hydrants
- iii. Service and maintenance of hose reels
- iv. Service and maintenance of fire equipment cabinet boxes
- v. Replacement of scrapped fire extinguishers
- vi. Fire extinguisher spares (DCP and CO2)
- vii. OEM functional testing and service of emergency response vehicles
- viii. OEM inspections and service of emergency response vehicles
- ix. Emergency response vehicles refurbishment
- x. Load testing and service on fire and rescue lifting equipment
- xi. Dye pen testing and service on fire and rescue lifting equipment
- xii. Inspection, service and testing of hydraulic rescue equipment
- xiii. Inspection, service and testing of pneumatic rescue equipment
- xiv. Inspection, service and testing of mechanical rescue equipment
- xv. Inspection, service and testing of electrical rescue equipment
- xvi. Inspection, service and testing of Personal Protective Equipment
- xvii. Inspection, service and testing of miscellaneous equipment
- xviii. Inspection, service and testing of hazardous materials (hazmat) equipment

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The following tables illustrates the scope of work for each service as listed above:

**Table 1: Service and Maintenance of Portable and Mobile Fire Extinguishers)**

<b>Component</b>	<b>Service</b>	<b>Maintenance</b>	<b>Quantity</b>	<b>Frequency</b>
DCP 2kg extinguisher	X	X	120	Yearly
DCP 4.5 kg extinguisher	X	X	200	Yearly
DCP 9 kg extinguisher	X	X	2500	Yearly
CO2 5kg extinguisher	X	X	500	Yearly
CO2 20kg extinguisher (mobile)	X	X	20	Yearly
DCP 30kg extinguisher (mobile)	X	X	30	Yearly
Foam 50kg extinguisher (mobile)	X	X	12	Yearly

**Table 2: Annual Recharge of Portable Fire Extinguishers**

<b>Component</b>	<b>Service</b>	<b>Recharge</b>	<b>Quantity</b>	<b>Frequency</b>
DCP 2kg extinguisher		X	120	As & when required
DCP 4.5 kg extinguisher		X	200	As & when required
DCP 9 kg extinguisher		X	1000	As & when required
CO2 5kg extinguisher		X	200	As & when required
CO2 20kg extinguisher (mobile)		X	20	As & when required

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DCP 30kg extinguisher (mobile)		X	30	As & when required
Foam 50kg extinguisher (mobile)		X	12	As & when required

**Table 3: Pressure Testing of Portable Fire Extinguishers**

Component	Service	Pressure Test	Quantity	Frequency
DCP 2kg extinguisher		X	120	As & when required
DCP 4.5 kg extinguisher		X	200	As & when required
DCP 9 kg extinguisher		X	1000	As & when required
CO2 5kg extinguisher		X	200	As & when required
CO2 20kg extinguisher (mobile)		X	20	As & when required
DCP 30kg extinguisher (mobile)		X	30	As & when required
Foam 50kg extinguisher (mobile)		X	12	As & when required

**Table 4: Refilling of Portable Fire Extinguishers**

Component	Service	Refill	Quantity	Frequency
DCP 2kg extinguisher		X	120	As & when required
DCP 4.5 kg extinguisher		X	200	As & when required
DCP 9 kg extinguisher		X	1000	As & when required

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CO2 extinguisher 5kg		X	200	As & when required
CO2 extinguisher (mobile) 20kg		X	20	As & when required
DCP extinguisher (mobile) 30kg		X	30	As & when required
Foam extinguisher (mobile) 50kg		X	12	As & when required

**Table 5: Reconditioning of Portable Fire Extinguishers**

Component	Strip	Chemical clean & powder coat	Quantity	Frequency
DCP 2kg extinguisher		X	120	As & when required
DCP 4.5 kg extinguisher		X	200	As & when required
DCP 9 kg extinguisher		X	1000	As & when required
CO2 5kg extinguisher		X	200	As & when required
CO2 20kg extinguisher (mobile)		X	20	As & when required
DCP 30kg extinguisher (mobile)		X	30	As & when required
Foam 50kg extinguisher (mobile)		X	12	As & when required

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**Table 6: Hydrostatic Testing of Portable Fire Extinguishers**

<b>Component</b>	<b>Service</b>	<b>Hydro Test</b>	<b>Quantity</b>	<b>Frequency</b>
DCP 2kg extinguisher		X	120	5 years or when due
DCP 4.5 kg extinguisher		X	200	5 years or when due
DCP 9 kg extinguisher		X	1000	5 years or when due
CO2 5kg extinguisher		X	200	10 years or when due
CO2 20kg extinguisher (mobile)		X	20	10 years or when due
DCP 30kg extinguisher (mobile)		X	30	5 years or when due
Foam 50kg extinguisher (mobile)		X	12	5 years or when due

**Table 7: Supply and Deliver of Fire Extinguishers**

<b>Component</b>	<b>Service</b>	<b>Hydro Test</b>	<b>Quantity</b>	<b>Frequency</b>
DCP 2kg extinguisher			100	As & when required
DCP 4.5 kg extinguisher			200	As & when required
DCP 9 kg extinguisher			300	As & when required
CO2 5kg extinguisher			200	As & when required
CO2 20kg extinguisher (mobile)			200	As & when required

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DCP 30kg extinguisher (mobile)			100	As & when required
Foam 50kg extinguisher (mobile)			10	As & when required

**Table 8: Service and Maintenance of Fire Hydrants**

Component	Service	Maintenance	Quantity	Frequency
Fire Hydrants	X		200	Yearly

**Table 9: Service and Maintenance of Hose Reels**

Component	Service	Maintenance	Quantity	Frequency
Hose Reels	X		1000	Yearly
		X	1000	As and when required

**Table 7: Replacement/ Repair of Damaged Fire Equipment Cabinets /Boxes**

Component	Replace/ Repair	Hydro Test	Quantity	Frequency
Hose Reel Cabinets	X		200	As & when required
Fire Hose Station Cabinets	X		100	As & when required
Fire Extinguisher Cabinets	X		200	As & when required

**Table 8: Replacement of Scrapped Fire Extinguishers**

Component	Replace scrapped fire extinguishers	Hydro Test	Quantity	Frequency
DCP extinguishers 2kg – 9kg	X		200	As & when required

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DCP extinguishers 30kg (mobile)	X		6	As & when required
CO2 extinguishers 9kg	X		100	As & when required
CO2 extinguishers 20kg (mobile)	X		6	As & when required

**Table 9: Fire Extinguisher Spares**

<b>Component</b>	<b>Spares</b>	<b>Hydro Test</b>	<b>Quantity</b>	<b>Frequency</b>
DCP extinguishers 2kg – 9kg spares and DCP extinguishers 30kg (mobile) spares	Valve Assembly - complete		100	As & when required
	Pressure gauge		100	As & when required
	Siphon tube		100	As & when required
	Discharge hose and nozzle		100	As & when required
	Valve seat		100	As & when required
	O- ring		100	As & when required
	Instruction label		100	As & when required
	Monthly inspection stickers		2000	As & when required
	Mounting bracket/ holder		100	As & when required
	Wall bracket/ holder		100	As & when required
Chevron Backing Board		100	As & when required	
	Valve assembly complete		100	As & when required

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CO2 9kg extinguishers spares and CO2 20kg (mobile) spares	Safety disc		100	As & when required
	Siphon tube		100	As & when required
	Discharge horn		100	As & when required
	Instruction label		100	As & when required
	Monthly inspection stickers		500	As & when required
	Mounting bracket/ holder		100	As & when required
	Wall bracket/ holder		100	As & when required
	Chevron Backing Board		100	As & when required

**Table 10: OEM Functional Testing and Servicing of Emergency Response Vehicles**

<b>Component</b>	<b>Service</b>	<b>Quantity</b>	<b>Frequency</b>
Vehicle Fire Pump	<ul style="list-style-type: none"> <li>Vibration test on fire pump</li> <li>Pressure tests</li> <li>Flow tests</li> <li>Stroke test on supply and delivery valves</li> </ul>	2	Yearly
Hydraulic system	<ul style="list-style-type: none"> <li>System pressure</li> </ul>	2	Yearly
Pneumatic system	<ul style="list-style-type: none"> <li>System pressure</li> </ul>	2	Yearly
Electrical system	<ul style="list-style-type: none"> <li>System voltage/ amps</li> </ul>	2	Yearly
Electronic management system	<ul style="list-style-type: none"> <li>Diagnostics for any faults</li> </ul>	2	Yearly

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**Table 11: OEM Inspections and Service of Emergency Response Vehicles**

<b>Component</b>	<b>Testing</b>	<b>Quantity</b>	<b>Frequency</b>
Engine	<ul style="list-style-type: none"> <li>• Oil levels</li> <li>• Water levels</li> <li>• Oil leaks</li> <li>• Water Leaks</li> <li>• General appearance and condition of the engine</li> </ul>	3	Yearly
Vehicle lights	<ul style="list-style-type: none"> <li>• Functioning of all lights</li> <li>• Visibility of lights</li> <li>• Damage on the lights</li> </ul>	3	Yearly
Vehicle siren system	<ul style="list-style-type: none"> <li>• Functioning of the system</li> <li>• Audibility of the system</li> </ul>	3	Yearly
Vehicle tyres	<ul style="list-style-type: none"> <li>• Damage on the tyres</li> <li>• Tyre pressure</li> <li>• Tyre threads</li> </ul>	3	Yearly
Vehicle Braking System	<ul style="list-style-type: none"> <li>• Vehicle Power Take-Off (PTO)</li> </ul>	2	Yearly
Operational performance of the fire pump	<ul style="list-style-type: none"> <li>• Pump engage/ disengage</li> <li>• Functioning of pump gauges</li> <li>• Pump delivers water with rated pressure</li> <li>• General appearance of the fire pump</li> </ul>	2	Yearly
Vehicle fixed lifting equipment (e.g. winch)	<ul style="list-style-type: none"> <li>• Damage to the system controls</li> <li>• Damage on the cabling</li> </ul>	3	Yearly
Batteries	<ul style="list-style-type: none"> <li>• Water level</li> <li>• Terminals cleanliness</li> <li>• Terminals damage</li> <li>• Terminals secured</li> </ul>	3	Yearly

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	<ul style="list-style-type: none"> <li>• Overall safety condition</li> </ul>		
Communication radio	<ul style="list-style-type: none"> <li>• Functioning of the system</li> <li>• General condition of the system</li> </ul>	3	Yearly
Water and foam tanks	<ul style="list-style-type: none"> <li>• Tank lining</li> <li>• Tank bolts</li> <li>• Tank strainers</li> <li>• Tank level indicator</li> </ul>	2	Yearly
Couplings	<ul style="list-style-type: none"> <li>• Lugs</li> <li>• Seals</li> <li>• Out-of-round damage</li> </ul>	2	Yearly
Safety	<ul style="list-style-type: none"> <li>• Overall safety condition of the emergency vehicle for operational use</li> </ul>	3	Yearly

**Table 12: OEM Emergency Response Vehicles Refurbishment**

Component	Service	Quantity	Frequency
Cab	<ul style="list-style-type: none"> <li>• Refurbish</li> </ul>	3	10-yearly
Water tank	<ul style="list-style-type: none"> <li>• Refurbish</li> </ul>	2	8-yearly
Foam tank	<ul style="list-style-type: none"> <li>• Refurbish</li> </ul>	2	8-yearly
Pump	<ul style="list-style-type: none"> <li>• Refurbish</li> </ul>	2	5-yearly
Pump controls	<ul style="list-style-type: none"> <li>• Refurbish</li> </ul>	2	5-yearly
Valves	<ul style="list-style-type: none"> <li>• Refurbish</li> </ul>	2	5-yearly
Couplings	<ul style="list-style-type: none"> <li>• Refurbish</li> </ul>	2	5-yearly
Pressure gauges	<ul style="list-style-type: none"> <li>• Refurbish</li> </ul>	2	3-yearly
Emergency lights and siren	<ul style="list-style-type: none"> <li>• Refurbish</li> </ul>	2	5-yearly
Hydraulic system	<ul style="list-style-type: none"> <li>• Refurbish</li> </ul>	2	5-yearly
Pneumatic system	<ul style="list-style-type: none"> <li>• Refurbish</li> </ul>	2	5-yearly

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PTO	<ul style="list-style-type: none"> <li>• Refurbish</li> </ul>	2	5-yearly
Transmission system	<ul style="list-style-type: none"> <li>• Refurbish</li> </ul>	2	5-yearly
Lockers	<ul style="list-style-type: none"> <li>• Refurbish</li> </ul>	2	10-yearly
Brake system including airbrakes	<ul style="list-style-type: none"> <li>• Refurbish</li> </ul>	2	5-yearly
Light emergency vehicle (Class 1) suspension	<ul style="list-style-type: none"> <li>• Refurbish</li> </ul>	1	5-yearly
Medium heavy emergency vehicle (Class 2) suspension	<ul style="list-style-type: none"> <li>• Refurbish</li> </ul>	1	5-yearly
Vehicle body repair and spray	<ul style="list-style-type: none"> <li>• Refurbish</li> </ul>	3	10-yearly
Emergency vehicle	<ul style="list-style-type: none"> <li>• Life of plant replacement</li> </ul>	3	20-yearly

**Table 13: Load Testing and Service on Fire and Rescue Lifting Equipment**

<b>Component</b>	<b>Service</b>	<b>Quantity</b>	<b>Frequency</b>
Winches	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Load testing</li> </ul>	3	Yearly
Rescue tripod	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Load testing</li> </ul>	2	Yearly
Chain block	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Load testing</li> </ul>	2	Yearly
Chains	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Load testing</li> </ul>	2	Yearly
Lever Hoist	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Load testing</li> </ul>	2	Yearly

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Fire ladders	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Load testing</li> </ul>	4	Yearly
Rope rescue harnesses (metal connector points)	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Load testing</li> </ul>	10	Yearly
Hydraulic spreader	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Load testing</li> </ul>	2	Yearly

**Table 14: Dye Pen Testing and Service on Fire and Rescue Lifting Equipment**

<b>Component</b>	<b>Service</b>	<b>Quantity</b>	<b>Frequency</b>
Life Safety rope (100m)	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Dye pen testing</li> </ul>	2	Yearly
Utility rope (100m)	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Dye pen testing</li> </ul>	2	Yearly
Rope rescue ascending devices	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Dye pen testing</li> </ul>	50	Yearly
Rope rescue descending devices	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Dye pen testing</li> </ul>	50	Yearly
Rope rescue pulleys	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Dye pen testing</li> </ul>	30	Yearly
Rope rescue-edged caterpillars/ plats	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Dye pen testing</li> </ul>	10	Yearly
Rope rescue figure of 8s	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Dye pen testing</li> </ul>	20	Yearly
Rope rescue swivels	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Dye pen testing</li> </ul>	20	Yearly

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Rope rescue harnesses (metal connector points)	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Dye pen testing</li> </ul>	10	Yearly
Rope rescue carabiners	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Dye pen testing</li> </ul>	50	Yearly
Rope rescue rigging plats	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Dye pen testing</li> </ul>	20	Yearly
Hydraulic cutter	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Dye pen testing</li> </ul>	2	Yearly
Hydraulic spreader blades	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Dye pen testing</li> </ul>	4	Yearly
Fire ladders	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Dye pen testing</li> </ul>	4	Yearly
Hydraulic pump	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Test all moving parts</li> </ul>	2	Yearly
Hydraulic spreader	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Test all moving parts</li> </ul>	2	Yearly
Hydraulic ram bars	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Test all moving parts</li> </ul>	6	Yearly
Hydraulic door opener (rabbit tool)	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Test all moving parts</li> </ul>	1	Yearly

**Table 15: Inspection, Service and Testing of Pneumatic Rescue Equipment**

<b>Component</b>	<b>Service</b>	<b>Quantity</b>	<b>Frequency</b>
Pneumatic pump/compressor	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Test all moving parts</li> </ul>	1	Yearly
Pneumatic Ram Bars	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Test all moving parts</li> </ul>	6	Yearly

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Pneumatic regulator	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Test all moving parts</li> </ul>	2	Yearly
Pneumatic vetter bags control system controller	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Test all moving parts</li> </ul>	2	Yearly
Pneumatic vetter bags	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Test all moving parts</li> </ul>	6	Yearly
Breathing apparatus cylinder carbon fibre composite	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Test all moving parts</li> </ul>	20	Yearly
Breathing apparatus cylinder steel	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Test all moving parts</li> </ul>	25	Yearly
Mobile Breathing Apparatus compressor	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Test all moving parts</li> </ul>	1	Yearly
Pneumatic hoses	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Test all moving parts</li> </ul>	5	Yearly
Inline relief valve	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Test all moving parts</li> </ul>	2	Yearly

**Table 16: Inspection, Service and Testing of Mechanical Rescue Equipment**

<b>Component</b>	<b>Service</b>	<b>Quantity</b>	<b>Frequency</b>
Chainsaw	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Test all moving parts</li> </ul>	1	Yearly
Carborundum cutter (rotary saw)	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Test all moving parts</li> </ul>	1	Yearly
PPV fan	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Test all moving parts</li> </ul>	2	Yearly

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Vehicle stabilization struts	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Test all moving parts</li> </ul>	2	Yearly
Trench shoring rams	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Test all moving parts</li> </ul>	20	Yearly
Steering cover	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> </ul>	2	Yearly
Window puncher	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Test all moving parts</li> </ul>	2	Yearly
High-lifting jack	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Test all moving parts</li> </ul>	1	Yearly

**Table 17: Inspection, Service and Testing of 'Hydro' Equipment**

<b>Component</b>	<b>Service</b>	<b>Quantity</b>	<b>Frequency</b>
Pistol grip hand-controlled branch/ nozzle	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Test all moving parts</li> </ul>	6	Yearly
Dividing breech	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Test all moving parts</li> </ul>	2	Yearly
Collecting breech	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Test all moving parts</li> </ul>	2	Yearly
Ground monitor	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Test all moving parts</li> </ul>	5	Yearly
Deck monitor	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Test all moving parts</li> </ul>	1	Yearly
Foam inline inductor (educator)	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Test all moving parts</li> </ul>	2	Yearly
Foam pickup tube	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> </ul>	2	Yearly
Portable floating pump	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Test all moving parts</li> </ul>	2	Yearly

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**Table 18: Inspection, Service and Testing of Electrical Rescue Equipment**

<b>Component</b>	<b>Service</b>	<b>Quantity</b>	<b>Frequency</b>
Portable/ fixed electrical generators	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Test all moving parts</li> </ul>	2	Yearly
Thermal Imaging Camera	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Test all moving parts</li> </ul>	2	Yearly
Pump system rear mount – firefly 1040	<ul style="list-style-type: none"> <li>• Electrical test (current/ undercurrent and functional)</li> </ul>	1	Yearly
Combustible gas monitor	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Electrical test (current/ undercurrent and functional)</li> </ul>	2	Yearly
Vehicle communication radio	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Electrical test (current/ undercurrent and functional)</li> </ul>	4	Yearly
Emergency vehicle sirens	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Electrical test (current/ undercurrent and functional)</li> </ul>	6	Yearly
Emergency vehicle lighting	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Electrical test (current/ undercurrent and functional)</li> </ul>	6	Yearly

**Table 19: Inspection, Service and Testing of the Integrity of Personal Protective Equipment and Clothing**

<b>Component</b>	<b>Service</b>	<b>Quantity</b>	<b>Frequency</b>
Hazmat gloves	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Functional safety test</li> </ul>	12 pairs	Yearly
Hazmat boots	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Functional safety test</li> </ul>	12 pairs	Yearly

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SCBA mask	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Functional safety test</li> </ul>	50	Yearly
SCBA Backplate and harness	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Functional safety test</li> </ul>	50	Yearly
Personal Alert Safety System (PASS) device	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Functional safety test</li> </ul>	20	Yearly
HAZMAT Suit Class A	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Functional <b>leak</b> test</li> </ul>	12	Yearly
HAZMAT Suit Class B	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Functional safety test</li> </ul>	12	Yearly

**Table 20: Inspection and Testing of the Integrity of Miscellaneous Rescue Equipment**

Component	Service	Quantity	Frequency
Bag Valve Mask	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Functional safety test</li> </ul>	2	When required Yearly
Glucometer	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Functional calibration</li> </ul>	2	When required Yearly
Spider harness	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> </ul>	2	When required

**Table 21: Inspection, Service and Testing of the Integrity of HAZMAT Equipment)**

Component	Service	Quantity	Frequency
Cooling jackets c/w gel packs	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> </ul>	8	When required
Intrinsically safe rechargeable torches	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Intrinsic safety test</li> </ul>	6	Yearly
Portable magnetic green strobe	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Functional safety test</li> </ul>	1	Yearly

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Portable LED flood lights	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Functional safety test</li> </ul>	2	Yearly
Electronic BA Tally Board	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Functional safety test</li> </ul>	1	As & when required
Portable decontamination shower	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Functional safety test</li> </ul>	2	As & when required
1.5 Bar foot pump	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Functional safety test</li> </ul>	1	Yearly
17-piece intrinsic safe tool kit	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Intrinsic safety test</li> </ul>	1	Yearly
3.2 KW generator	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Functional safety test</li> </ul>	1	Yearly
Windsock, 5m telescopic pole & tripod stand	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Functional safety test</li> </ul>	1	Yearly
Portable dams	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Functional safety test</li> </ul>	2	Yearly
Decon shelter	<ul style="list-style-type: none"> <li>• Inspection: safe to operate</li> <li>• Functional safety test</li> </ul>	1	Yearly

#### **4. Acceptance**

This document has been seen and accepted by:

<b>Name</b>	<b>Designation</b>
Dhires Ram	Prof Engineer Fire Protection System
Isaac Sithole	Group Manager BU Compliance
Masande Gomomo	Prof Engineer Fire Protection System
Sibusiso Vezi	Manager Fire Protection System Maintenance
Sazi Zungu	Manager Quality

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## 5. Revisions

Date	Rev.	Compiler	Remarks
March 2025	4	P. Myeni	The following changes were made: <ul style="list-style-type: none"> <li>• Changed the name of the document from Service and Maintenance of Fire Equipment to Inspection, Testing, Servicing and Maintenance of Fire and Rescue Non-Plant Equipment to include all portable fire and rescue equipment at Kusile.</li> <li>• Added Table 1 to Table 22 to include all fire and rescue equipment as stated on the above point.</li> <li>• Revised the signature page to include the Fire Protection System Engineer as the supporter of the document.</li> </ul>
January 2024	3	P. Myeni	The following points were added to the document: <ul style="list-style-type: none"> <li>• 2.5.2 (a)</li> <li>• 2.5.4</li> <li>• 2.6 (c)</li> </ul>
March 2023	2	P. Myeni	Document reviewed without changes
March 2018	1	K. Masha	Needed to place fire equipment maintenance and service contract

## 6. Development Team

- Philani Myeni

## 7. Acknowledgements

- Occupational Hygiene and Safety & Security OGE
- Generation Fire Risk Forum
- Dhiresh Ram

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