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|---|--|--|
|  | <p style="text-align: center;">Scope of Work</p> | <p style="text-align: center;">Kriel Power Station</p> |
|---|--|--|

Title: **Kriel Power Station Scope of Work for the Maintenance of Fire Emergency Equipment** Document Identifier: **555-RSR2048**

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Area of Applicability: **Kriel Power Station**

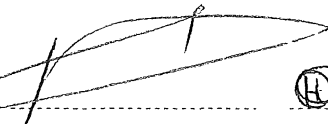

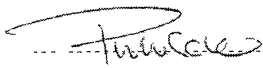

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## **1. Introduction**

Maintenance and servicing contract is required to keep all fire and emergency equipment at Eskom Kriel Power Station Generation division, Mpumalanga, at an acceptable standard and condition as required by Occupational Health and Safety act 85 of 1993, National Building Regulation no.103 of 1977, Fire Brigade Services Act 99 of 1987 and SANS 1475 Production of Reconditioned Fire Fighting Equipment.

Maintenance and Inspections performed shall be monthly service and inspected to confirm visual operational status of fire equipment. This schedule establishes preventative maintenance of Fire Equipment to minimize the likelihood of breakdowns and constantly ensuring readiness.

## **2. Supporting Clauses**

### **2.1 Maintenance of Fire Emergency Equipment**

#### **2.1.1 Applicability**

This document applies to all the Fire & Emergency equipment maintenance at Eskom Kriel Power Station Generation division.

#### **2.1.2 Effective date**

This document will be effective from the authorisation date.

### **2.2 Normative/Informative References**

#### **2.2.1 Normative**

- [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] Eskom Health, Safety, Environmental Management and Quality Policy 32-727
- [5] Eskom Standard for Emergency Planning 32-123
- [6] Fire Brigade Services Act 99 of 1987
- [7] National Environmental Management Act 107/1998 107/1998
- [8] NFPA 25, Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems.
- [9] SANS 1475 Production of Reconditioned Fire Fighting Equipment

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### 2.2.2 Informative

- [10] SHE requirements for tender enquiries
- [11] SHE tender evaluation and scoring card.

### 2.3 SHE tender evaluation and scoring card Definitions.

| <b>Term</b>       | <b>Description</b>   |
|-------------------|--|
| Fire Truck/Engine | Fire Fighting Vehicle  |
| Hazmat Vehicle    | Hazardous Equipment Vehicle for First Responder  |
| Skid Unit         | Wild Land Fire Fighting Vehicle / Unit   |
| Small Gear        | Is referred as Circular Saw, Chain Saw, Reciprocating Saw, Cordless Drill, Positive Pressure Ventilator and Electrical Generator |

#### 2.3.1 Document:

### 2.4 Abbreviations

| <b>Abbreviation</b> | <b>Description</b>                                      |
|---------------------|---|
| CO <sub>2</sub>     | Carbon Dioxide  |
| DCP                 | Dry Chemical Powder                                     |
| OEM                 | Original Equipment Manufacturer                         |
| PPV                 | Positive Pressure Ventilator                            |
| PVC                 | Poly Vinyl Chloride                                     |
| SAQCC               | South African Qualification and Certification Committee |
| SCBA                | Self-Contained Breathing Apparatus                      |

### 2.5 Roles and Responsibilities

#### 2.5.1 Procurement Department

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

- South African Bureau of Standards in terms of SABS 1475.
- The South African Qualification & Certification Committee for the Fire Industry (SAQCC).
- South African Bureau of Standards in terms of SABS 1737:2001.

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### **2.5.2 Service Provider/Partner**

- a. The service provider/partner shall ensure that this scope of work is executed accordingly.

### **2.5.3 Contract's Manager / Operations Controller**

- a. Contract's Manager shall ensure that the technical evaluation score sheet is supplied to the tender evaluation committee.
- b. Contract's Manager shall verify that the service provider/partner executes this scope of work accordingly.
- c. Contract's Manager shall conduct a quarterly inspection at the service provider/partner off site Workshop to ensure SAQCC Certification validity.

### **2.6 Process for Monitoring**

- a. The service provider will do inspections on fire emergency equipment as in accordance with section 3.3; and submit an inspection report to the contract's manager.
- b. The contract's manager will conduct a monthly assessment to monitor work progress.

### **2.7 Related/Supporting Documents**

Not Applicable

## **3. Document Content**

### **Scope of work for the maintenance / replacement of fire emergency equipment**

The scope comprises the following but is not limited to:

- a. Servicing and Maintenance of Fire Extinguishers
- b. Periodically repair and replacement of Fire Extinguishers
- c. De-rusting, Pressure / Hydrostatic Tests of Fire Extinguishers
- d. Service and periodically repair or replacement of Fire Hose Reels and Hydrants in conjunction with Eskom Kriel Maintenance Department
- e. Service, Maintenance, and certification of Hydraulic Rescue equipment
- f. Service, Maintenance, and certification of Pneumatic Rescue equipment
- g. Maintenance and replacement of Stabilising equipment
- h. Maintenance and replacement on Adjustable Fire Fighting Nozzles
- i. Service and Maintenance of PPV fans
- j. Service and Maintenance of Fire Department Generators

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- k. Servicing and Maintenance of complete sets of SCBA
- l. Periodically repair and replacement of complete sets of SCBA
- m. Service and Maintenance of SCBA Compressors
- n. De-Rust, Chemical Treatment and Hydrostatic Pressure Test on all SCBA Cylinders (Composite/Steel See 3.3)
- o. Servicing and Maintenance of Fire Engine Pump and portable Fire Pumps
- p. Servicing, Repair and Replacements on Skid Units & Skid Unit Trailers
- q. Servicing and Maintenance on hand tools and small gear
- r. Maintenance of Fire Fighting Hoses and Replacements
- s. Pressure and vacuum test of suction hoses
- t. Servicing, Maintenance, and replacement of Foam Trolleys
- u. Replacement of Expired Foam Concentrate
- v. Ladder Inspection and Load Testing
- w. Maintenance and replacement of Portable Lighting equipment
- x. Daily, Weekly & Monthly inspections of portable fire equipment

### **3.1 Inspections**

When Inspection date is reached the following is to be done on fire equipment.

- Fire Extinguishers
- Fire Hose Reels
- Fire Hydrants

A Signed comprehensive monthly report to be submitted to Fire Risk Management indicating all work done according to this scope.

### **3.2 Services**

When service date is reached the following is to be done on fire equipment.

A Signed comprehensive monthly report to be submitted to Fire Risk Management indicating all work done according to this scope.

### **A. Extinguishers**

- i. Extinguisher is to be removed from its position and replaced with a serviceable unit.
- ii. Extinguisher to be stripped.

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- iii. Extinguisher is to be inspected for any defects, such as rust, cracks and any deformities rendering it inoperable.
- iv. Extinguisher hoses deteriorated from exposure to the elements are to be replaced.
- v. Extinguisher gauges to be checked and calibrated.
- vi. Extinguishers that are faded or slightly rusted must be sandblasted and repainted and all decals replaced.
- vii. Extinguishers to be pressure tested (See 3.3)
- viii. Extinguishers to be supplied with Pressure Test Certificates post service.
- ix. Ensure Hydrostatic testing of CO2 extinguishers with Certification when required (See 3.3)
- x. Inspection sticker to be added indicating next Service Date
- xi. Information / Instruction Stickers to be present on all units.
- xii. PVC covers for extinguishers are in place.
- xiii. Ensure Fire extinguisher bracket mountings are in place.
- xiv. Ensure that the fire bank has symbolic signs for Extinguishers.
- xv. Disposable Certificate supplied when Extinguisher exceeds lifespan.
- xvi. Lockable Fire Extinguisher Cabinets to be available at identified locations.

#### **B. Hose Reels**

- i. Hose Reels to be inspected monthly and indicated on a monthly inspection sticker.
- ii. Nozzles to be inspected and replaced when defective.
- iii. Inspect Isolation Valve's functionality and repair or replace when defective.
- iv. Inspect drum functionality and repair or replace when defective.
- v. Inspect waterways for leaks and repair or replace when defective.
- vi. Ensure that the fire bank has a symbolic sign for Hose Reels
- vii. PVC covers for hose reels.
- viii. Next Service date sticker to be supplied on the outside as well on the inside of the drum.
- ix. Ensure that all spares are readily available at the Fire Station Storeroom

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**C. Hydrants**

- i. Hydrants to be checked monthly for leaks etc. and any deformities rendering it inoperable.
- ii. Monthly Inspection sticker needs to be placed on all units.
- iii. Inspection sticker to be placed indicating next Service Date on all units.
- iv. Hydrants to be flushed monthly.
- v. Hydrants seals to be in place and replaced if necessary.
- vi. Ensure that the fire Hydrants Lugs are in good condition, if not load a defect
- vii. Ensure that the fire bank has a symbolic sign for hydrants.
- viii. Ensure that damaged fire hydrants are reported, and defect are loaded.
- ix. Ensure that spares are readily available at the Fire Station Storeroom

**D. Fire Fighting Equipment**

**i. Hydraulic / Pneumatic Rescue Equipment**

- Replace with spare set of Hydraulic / Pneumatic Equipment at onset of Service.
- Place Service Label and date of next Service on each equipment Serviced.
- Service as per OEM requirements
- Service or replace affected moving parts and critical components.

**ii. Small Gear and Hand Tools**

- All small gear and hand tools should be replaced by a spare set if equipment is sent away for prolonged period for OEM Servicing
- Replacement of Hand tools and Small Gear
- Service or replace affected moving parts and critical components.

**iii. SCBA**

- Cylinders to be Hydrostatic Pressure Tested
- Replacement of redundant Cylinders
- Replacement of redundant Back-Plates
- Replacement of redundant Masks and Harnesses
- Replacement of redundant Demand Valves

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- Hydrostatic Pressure Test of cylinders of Fixed Charging Unit
- Replace old & Obsolete Breathing Apparatus (Complete Sets)

**iv. Wildfire Trailer and Grass Fire Unit**

- Wildfire trailer / unit services according to OEM
- Replacement of redundant pump
- Replacement of redundant water tank
- Replacement of redundant piping
- Replacement of redundant high-pressure nozzle
- Redundant Battery Replacement
- Repair or replace Grass Beaters

**v. Adjustable Fire Nozzles**

- Fire nozzles service
- Replace redundant fire nozzle.
- Repair fixable nozzle with correct parts.
- Service or replace affected moving parts and critical components.

**vi. Fire Fighting Hoses (38mm-100mm)**

- Replace Male coupling if defective.
- Replace Female coupling if defective.
- Hoses Binding if necessary.
- Replace missing Seals.
- Lug Replacement if damaged
- Replace redundant Fire Fighting Hoses.

**vii. Inline Inductors**

- Replacement of irreparable inductor 225
- Replacement of irreparable inductor 450
- Service or replace affected moving parts and critical components.

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viii. **Foam Trolleys**

- Repair or Replacement of Foam Trolleys if defective
- Replenishment of Foam Concentrate

ix. **Pressure and vacuum test of suction hoses 75mm to 200mm**

- Replacement of Suction Hoses if inoperable

x. **Fire Fighting Gear & Office Uniform**

- Provide approved Fire Fighting Gear and Office Wear as per Eskom Standard.
- Fire Fighting PPE must comply with NFPA Standards.

xi. **SCBA mobile and fixed refilling Compressors**

- OEM specific service required.
- One set at a time to be send for Servicing.
- Service or replace affected moving parts and critical components.

**3.3 Frequency**

| <b>DESCRIPTION</b>   | <b>FREQUENCY</b> | <b>RESPONSIBLE PERSON</b> |
|--|------------------|---------------------------|
| A Signed comprehensive report to be submitted to Fire Risk Management indicating all work done according to this scope | Monthly          | Competent person          |
| All Serviceable Equipment to be allocated a Serviceable sticker to indicate next Service Due Date                      | When required    | Competent person          |
| Service and maintain all 1 - 50kg DCP extinguisher   | Annual           | Competent person          |
| Service and maintain all 2 – 5kg co <sub>2</sub> extinguishers   | Annual           | Competent person          |
| Service and maintain all 1 - 50kg Foam extinguisher  | Annual           | Competent person          |
| Pressure test 1 – 50kg DCP extinguishers   | Annual           | Competent person          |
| Pressure test 1 – 50kg Foam extinguishers  | Annual           | Competent person          |

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**Kriel Power Station Scope of Work for the  
Maintenance of Fire & Emergency Equipment**

Unique Identifier: 555-RSR2048

Revision: 1

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|   |               |                  |
|---|---------------|------------------|
| Hydrostatic Pressure test 2 – 5kg co <sub>2</sub> extinguishers | 10 Yearly     | OEM              |
| Recharge 1 – 50kg DCP extinguishers                             | Annual        | Competent person |
| Recharge 2 – 5kg co <sub>2</sub> extinguishers                  | Annual        | Competent person |
| Recharge 1 – 50kg Foam extinguishers                            | Annual        | Competent person |
| Reconditioning of all DCP extinguishers 1 – 50kg                | When required | Competent person |
| Reconditioning of all Foam extinguishers 1 – 50kg               | When required | Competent person |
| Reconditioning of all co <sub>2</sub> extinguishers 2 – 5kg     | When required | Competent person |
| Testing and reconditioning of all inline foam inductors         | Annual        | Competent person |
| Test and service of fire hose reels                             | Annual        | Competent person |
| Pressure test of delivery hoses 38 mm to 65mm                   | Annual        | Competent person |
| Pressure and vacuum test of suction hoses 75mm to 200mm         | Annual        | Competent person |
| Hydrostatic Pressure test of SCBA cylinders (Steel / Composite) | 10 Yearly     | OEM              |
| Refill 300 bar SCBA cylinders                                   | When required | Competent person |
| De-rusting/chemical treatment of SCBA cylinders                 | When required | OEM              |
| Test and service of hydrants                                    | Annual        | Competent person |
| Service of portable and floatable fire pump                     | Annual        | OEM              |
| Service of hydraulic rescue set (Dye pen test)                  | Annual        | OEM              |
| Inspection and service of Vetter bags                           | Annual        | OEM              |
| Vacuum pressure and delivery test of vehicle pump               | Annual        | OEM              |
| SERVICE OF SMALL GEAR.  | Annual        | OEM              |
| - Circular Saw  |               |                  |
| - Portable Generator  |               |                  |
| - PPV   |               |                  |
| - Chain Saw   |               |                  |
| SCBA.   |               |                  |
| - Replacement of redundant Cylinders (Steel / Composite)        | When required | OEM              |
| - Replacement of redundant Back-Plates                          |               |                  |
| - Replacement of redundant Masks and Harnesses                  |               |                  |

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|  |               |                  |
|--|---------------|------------------|
| - Replacement of redundant Demand Valves<br>- Replace old & Obsolete Breathing Apparatus (Complete Sets) |               |                  |
| SCBA compressor service (Mobile and Fixed)   | Annual        | OEM              |
| Ladder Inspection (Dye pen testing)  | Annual        | Competent person |
| Service skid units   | Bi-Annual     | OEM              |
| Service skid units' trailers   | Bi-Annual     | OEM              |
| Fire equipment boxes/ PVC cover  | When required | Competent person |
| Service and Replacement of adjustable Fire Nozzles   | When required | Competent person |
| Winch to be Load Tested  | Annual        | Competent person |
| Safety signs for emergency equipment   | When required | Competent person |

**3.4 Description of Critical Spares**

| <b>DESCRIPTION</b>                          | <b>FREQUENCY</b>   | <b>RESPONSIBLE PERSON</b> |
|---|--------------------|---------------------------|
| <b>EXTINGUISHERS SPARES</b>                 |                    |                           |
| A. Valve assembly complete                  | As & when required | Competent person          |
| B. Pressure gauge                           | As & when required | Competent person          |
| C. Syphon tube                              | As & when required | Competent person          |
| D. Discharge hose                           | As & when required | Competent person          |
| E. Valve seat                               | As & when required | Competent person          |
| F. Seal ring                                | As & when required | Competent person          |
| G. Instruction label                        | As & when required | Competent person          |
| H. Monthly inspection sticker               | As & when required | Competent person          |
| I. Replacement of foam concentrate          | As & when required | Competent person          |
| J. Replacement of all scrapped extinguisher | As & when required | Competent person          |

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| <b>CO<sub>2</sub> EXTINGUISHERS SPARES</b>  |                    |                  |
|---|--------------------|------------------|
| A. Valve assembly complete                  | As & when required | Competent person |
| B. Safety disc                              | As & when required | Competent person |
| C. Syphon tube                              | As & when required | Competent person |
| D. Discharge horn                           | As & when required | Competent person |
| E. Discharge hose                           | As & when required | Competent person |
| F. Instruction label                        | As & when required | Competent person |
| G. Monthly inspection label                 | As & when required | Competent person |
| H. Replacement of all scrapped extinguisher | As & when required | Competent person |
| <b>FIRE HOSE REELS SPARES</b>               |                    |                  |
| A. Stop valve                               | As & when required | Competent person |
| B. 30m PVC hose                             | As & when required | Competent person |
| C. Gland packing                            | As & when required | Competent person |
| D. Nozzle                                   | As & when required | Competent person |
| E. Clamps                                   | As & when required | Competent person |
| F. Instruction label                        | As & when required | Competent person |
| G. Monthly inspection sticker               | As & when required | Competent person |
| H. Replacement reel                         | As & when required | Competent person |
| I. Replacement on waterways                 | As & when required | Competent person |
| <b>FIRE FIGHTING HOSE SPARES</b>            |                    |                  |
| A. Male coupling                            | As & when required | Competent person |
| B. Female coupling                          | As & when required | Competent person |
| C. Binding                                  | As & when required | Competent person |
| D. Seal                                     | As & when required | Competent person |
| E. Replacement lug                          | As & when required | Competent person |
| F. Replacement hose 45 mm                   | As & when required | Competent person |
| G. Replacement hose 65mm                    | As & when required | Competent person |
| H. Replacement hose 38mm                    | As & when required | Competent person |
| I. Replacement hose 100mm                   | As & when required | Competent person |
| J. Suction hose spares                      | As & when required | Competent person |

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|  |                    |                  |
|--|--------------------|------------------|
| K. Seal                                      | As & when required | Competent person |
| L. Coupling                                  | As & when required | Competent person |
| M. Binding                                   | As & when required | Competent person |
| N. Replacement hoses                         | As & when required | Competent person |
| <b>SCBA CYLINDERS SPARES</b>                 |                    |                  |
| A. Valve assembly complete                   | As & when required | Competent person |
| B. Seals                                     | As & when required | Competent person |
| C. Replacement of scrapped SCBA cylinder     | As & when required | Competent person |
| <b>INLINE INDUCTORS SPARES</b>               |                    |                  |
| A. Siphon tube                               | As & when required | Competent person |
| B. Induction valve assembly                  | As & when required | Competent person |
| C. Male coupling                             | As & when required | Competent person |
| D. Female coupling                           | As & when required | Competent person |
| E. Separate lug for instantaneous coupling   | As & when required | Competent person |
| F. Seal for 65mm instantaneous coupling      | As & when required | Competent person |
| G. Seal for induction valve assembly         | As & when required | Competent person |
| H. Replacement of irreparable inductor 225   | As & when required | Competent person |
| I. Replacement of irreparable inductor 450   | As & when required | Competent person |
| <b>HYDRAULIC RESCUE EQUIPMENT SET SPARES</b> |                    |                  |
| A. Spreader tips                             | As & when required | Competent person |
| B. Spreader arms                             | As & when required | Competent person |
| C. Cutter blades                             | As & when required | Competent person |
| D. Hydraulic oil                             | As & when required | Competent person |
| E. Carburettor kit                           | As & when required | Competent person |
| F. Pull start mechanism                      | As & when required | Competent person |
| G. Internal piston                           | As & when required | Competent person |
| H. Oil seal                                  | As & when required | Competent person |
| I. Quick release coupling                    | As & when required | Competent person |
| J. High pressure pipe                        | As & when required | Competent person |
| K. Spark plug                                | As & when required | Competent person |

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| <b>PORTABLE PUMP SPARES</b>                           |                    |                  |
|---|--------------------|------------------|
| A. Gland packing                                      | As & when required | Competent person |
| B. Gauges   | As & when required | Competent person |
| C. Primer oil   | As & when required | Competent person |
| D. Primer   | As & when required | Competent person |
| E. Primer belies.                                     | As & when required | Competent person |
| F. Spark plug   | As & when required | Competent person |
| G. Discharge valve                                    | As & when required | Competent person |
| <b>AIRBAGS SPARES (VETTERBAG)</b>                     |                    |                  |
| A. O rings  | As & when required | Competent person |
| B. Airbag replacement 16 ton                          | As & when required | Competent person |
| C. Airbag replacement 32 ton                          | As & when required | Competent person |
| D. Airbag replacement 64 ton                          | As & when required | Competent person |
| E. Gauges   | As & when required | Competent person |
| F. High pressure air pipe with quick release coupling | As & when required | Competent person |
| G. Screw in connection to connect to SCBA cylinder    | As & when required | Competent person |

#### **4. Acceptance**

This document has been seen and accepted by:

| <b>Name</b> | <b>Designation</b>                        |
|-------------|---|
| H Ngubane   | Fire Risk Officer                         |
| B Nhlapo    | Fire Risk Officer                         |
| PJ Mulder   | Manager: Fire & Emergency Risk Management |
| R Maahlo    | Manager: Risk & Assurance                 |

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## 5. Revisions

| Date     | Rev. | Compiler  | Remarks           |
|----------|------|-----------|-------------------|
| May 2025 | 1    | BB Nhlapo | First Development |

## 6. Development Team

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

- Nicolaas Du Toit
- Paul Mulder
- Happy Ngubane
- Bongani Nhlapo

## 7. Acknowledgements

N/A

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