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ESKOM

KOEBERG NUCLEAR POWER STATION

The provision of service for Servicing and testing all fire Extinguishers and Fire suppression cylinders at the KOU.

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1. DESCRIPTION

- 1.1 Perform the inspection, service and refilling of all portable and wheeled fire extinguishers, their hoses, head assemblies, labels and all attachments. Servicing and inspection of all Fire suppression system 45 kg CO2 cylinder including the replacement of actuating pyro technic vales on the cylinders. The Service Provider shall supply and replace worn or defective components as needed, after consultation with the employer.
- 1.2 All servicing, maintenance, repair work and spare parts shall be in accordance with the manufacturer's specifications and shall meet the requirements of the latest SANS 1910 as well as all other SANS requirements pertaining the service and refurbishment of fire extinguishers and firefighting equipment.
- 1.3 The Service Provider shall perform the service, refurbishment and refilling in accordance with SANS-1475 and shall only make use of technicians that are registered and trained in accordance with SANS-1475
- 1.4 The
- 1.4 The Service Provider shall provide to the employer, reports of all services performed, next service due dates and a list of all spares used.
- 1.5 The Service Provider shall maintain a quality record data base of each fire extinguisher serviced and or refilled. The record data shall be made available for inspection by the Employer any anomalies shall be corrected by the Service Provider within 14 days after receiving a written notification.
- 1.6 The Service Provider shall provide the Employer with certificates for each and every component that has been pressure tested and or calibrated.
- 1.7 The Employer shall determine which units are due for a service and the type of service that is needed.
- 1.8 The Service Provider shall collect and return all units from the Employer's premises for servicing. Servicing shall be carried out at the Service Provider's premises and workshops.
- 1.9 The Service Provider shall ensure that the turn-around time does not exceed 20 working days from the date of collection.

2. BACKGROUND

Standard requirement is that Firefighting equipment must be serviced, inspected and maintained at different frequencies. Fire extinguishers and Fire suppression cylinders falls in that category and therefore need to be serviced by a registered service provider.

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3. SCOPE OF WORK

The Service Provider shall perform the following.

- Inspect all fire extinguishers as required in the latest version of the applicable SANS Standards.
- Carry out hydro (pressure) testing of all cylinders (as indicated by the Employer). These shall include all hoses and components, and the Service Provider shall provide the necessary pressure test certificates.
- Refurbishing/Overhaul/Reconditioning of fire extinguisher cylinders, hoses, nozzles and discharge horns and 45 kg Cylinders where necessary or as indicated by the Employer.
- Remove and sift all DCP powders to remove any lumps and cleaning of the inside of the extinguisher cylinder. All powders shall be replaced and/or replenished as necessary.
- Refill or fill and pressurise all fire extinguishers and 45 kg Cylinders.
- Apply neck rings, service and instructions labels in accordance with SANS 1475 and SANS 1875 and reseal all fire extinguishers.
- Inspect, service and maintain all fire extinguisher accessories such as head assemblies, discharge levers or wheels on wheeled units.
- Maintain and keep record of all work carried out on each fire extinguisher and make available a copy of all pressure test certificates to the Employer.
- Use only approved spares or replacement components where required for each type of fire extinguisher serviced. The use of universal components is to be avoided.
- Collect from the Employer's premises, at a time and date as instructed by the Employer.
- Ensure all units are serviced and or refilled and returned within 20 working days from the date of collection or as agreed with the Employer.
- Provide the Employer with the required paperwork and pressure test certificates on return/delivery of the units when the units are returned to the employer.
- Use only SANS approved ABC, DCP type powders when filling or refilling DCP type fire extinguishers.

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4. CERTIFICATION / QUALIFICATION OF PERSONNEL

Minimum requirements for people employed.

- The *Service Provider* must personally ensure that all technical staff servicing or maintaining the fire extinguishers are training in accordance with SANS-1475 and shall ensure that their certificates of competence are available on inspection.
- The Registered Competent Person (the person with the acceptable qualifications, training and experience) who has been approved and registered with the registering authority in terms of SANS-1475 shall oversee the effective reconditioning of the fire extinguishers.
- A Registered Trainee (a person who is registered with the registering authority as a trainee) shall be always supervised by the Registered Competent Person when reconditioning the fire extinguishers.
- No service assistant (person who assists with the reconditioning of fire extinguishers) shall be allowed to service or maintain any fire extinguisher without the direct and constant supervision of the Registered Competent Person.
- The Service Provider's premises and workshop shall comply with all requirements as specified in SANS-1475.
- It is expected that supervisory representatives will be present on site on a daily basis. No work shall be left unsupervised.

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5. QUALITY REQUIREMENTS

All inspections, servicing and maintenance work shall be carried out in accordance with approved Eskom, OEM and SANS procedures.

DSG-318 – 087 – Quality requirements for the procurement of assets, goods and services	latest	
DSG-310- 087 – Generic service specification	latest	
SANS-1475 – The Production of reconditioned fire-fighting equipment (Part 1 – Portable and wheeled (mobile) rechargeable fire extinguishers.	latest	
SANS-10910 – Portable refillable fire extinguishers	latest	
SANS-6404/ISO-6406 – Gas cylinders – Seamless steel gas cylinders – Periodic inspection and testing	latest	
SANS-10019 – Transportable containers for compressed, dissolved and liquefied gases – Basic design, manufacture, use and maintenance.	latest	
SANS-10105-1 – The use and control of fire-fighting equipment – Part 1: Portable and wheeled (mobile) fire extinguishers.	latest	
SANS-1825 – Gas cylinder test stations – General requirements for periodic inspection and testing of transportable refillable gas pressure receptacles.	latest	
KWV-FP-JPS-xxx – Periodic inspection of portable Fire Extinguishers at Koeberg Power Station (xxx - application to area of concern)	latest	
KWV-FP-JPI-xxx - Periodic inspection (Test and inspect RCV/ RCP Fire systems	latest	
KWV-FP-JPW- xxx - Periodic inspection and test of all Gas suppression systems	latest	
KWV- FP- LHJ- xxx - Periodic inspection and test on the Emergency Diesel generator CO2 fire protection system	latest	