 Eskom	Scope of Work	Risk & Assurance
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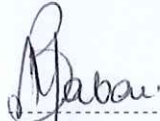
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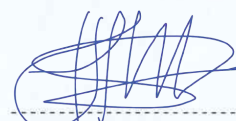
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1. Introduction

Coal-fired power stations employ various industrial processes with high levels of inherent risks that could result in a wide range of emergency incidents should safety and prevention barriers fail. These emergency incidents could vary from insignificant to critical, and even catastrophic, events during which times they threaten not only occupants of the power station but also members of the public under certain conditions. Damage to plant, equipment, property and other critical infrastructure may result with widespread potential of disruption due to the nature of some of the processes, equipment and materials stored and handled. Disruptions to production as a result of such incidents are seen as a threat to a stable national grid at times when the national grid is under severe pressure.

The objective of emergency preparedness and response initiatives is to prevent and reduce loss of life, destruction of property and harm to the environment. The control and effective management of risks that arise due to emergencies require an effective response with adequate resources readily available on a 24-hour basis.

2. Scope of Work

2.1 Scope

This document sets out the detailed user Scope of Work requirements necessary for the Supply of Fire, Rescue & Emergency Medical Services at Kriel Power Station.

2.1.1 Purpose

The purpose of this document is to define a User Scope of Work requirement based on which a short term service contract will be established between the Eskom Kriel Power Station and the Fire, Rescue and Emergency Medical Service Provider. Through this scope of work, Kriel Power Station seek to comply with Eskom Corporate and Generation Division Standards for Fire Risk Management, to reduce fire and emergency related risks to people, plant and power generation processes.

2.1.2 Applicability

This document shall be applicable to the Emergency Operational Centre and Fire Department associated with Kriel Power Station.

2.1.3 Effective Date

The document will be effective from the authorisation date.

2.2 Normative/Informative References

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

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2.2.1. Normative

- [1] ISO 9001 Quality Management Systems
- [2] ISO 45001: 2018 Occupational Health and Safety Management Systems Informative, Requirements
- [3] ISO 14001 Environmental Management Systems, Requirements with guidance for use
- [4] 99/1987 National Fire Act
- [5] 102/1980 National Key Point Act
- [6] 107/1998 National Environmental Management Act
- [7] 101/1999 Veld and Forest Fire Act
- [8] 57/2002 Disaster Management Act
- [9] 16/2015 Disaster Management Amendment Act
- [10] Regulation 1320 of December 2017 - Emergency Medical Service Regulations
- [11] 32-123 Eskom Standard for Emergency Planning
- [12] 32-128 Technical Specification on Personal Protective Clothing and Equipment for Firefighters
- [13] 240-46315409 Eskom Procedure: Management of Major Occurrences
- [14] 240-126467668 Operational Standard for Inspection, Testing Of Fire and Rescue Non-Plant Equipment
- [15] 240-126467640 Operational Standard for Fire Fighting Training in Generation
- [16] 240-126468603 Operational Standard for Fire Management in Generation

2.2.2. Informative

- [17] NFPA 600: NFPA 600 Standard on industrial Fire Brigades.
- [18] NFPA 850: Recommended Practice for Fire Protection for Electric Generating Plants and High Voltage Direct Current Converter Stations

2.3 Definitions

Term	Definition
Disaster Management	<p>The process of planning and implementation of measures undertaken by individuals, the Kriel Power Station's Emergency Response Team and other collaborative organisations aimed at:</p> <ul style="list-style-type: none">• Preventing or reducing the risk of fire and related disasters;• Mitigating the severity or consequences of fire and related disasters;• Emergency preparedness; and• A rapid and effective post-disaster recovery and rehabilitation plan
Emergency	<p>An emergency is an abnormal situation that is beyond the normal control measures available and requires coordinated and combined efforts of teams and people to return</p>

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	to a normal situation again.
Emergency Operations Centre	The centre or place specially equipped for the co-ordination, directing and application of effective management control during emergency operations.
Emergency Preparedness	The pre-planning, and actions and activities aimed at minimising the consequences of emergency situations affecting human life, assets, environment at Kriel Power Station and immediate surroundings.
Environment	<p>The surroundings within and outside the Kriel Power Station physical boundaries that are made up of:</p> <ul style="list-style-type: none">• The land, water and atmosphere of the earth;• Micro-organisms, plant and animal life;• Any part or combination of (a) and (b) and the interrelationships among and between them; and• The physical, chemical, aesthetic, cultural properties and conditions of the foregoing that influence human health and wellbeing.
Incident Commander	A person with specific knowledge of the emergency who will be in charge at the scene of an emergency.
National Key Point	Any place or area which laws under section 2 of (act 102 of 1980) been declared a National Key Point.
Partner	Any contractor, supplier or service provider rendering services to or on behalf of the Kriel Power Station. Note that where the term contractor is used it will mean the same in terms of this document.

2.4 Abbreviations

ALS	Advanced Life Support
BLS	Basic Life Support
EMS	Emergency Medical Services
EPP	Emergency Preparedness Plan
ER	Emergency Response
ERT	Emergency Response Team
GM	General Manager
HAZMAT	Hazardous Materials
HPCSA	Health Professions Council of South Africa
ILS	Intermediate Life Support

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Km	Kilometre
BMF	Board of Health Funders
SHE	Safety, Health and Environment

2.5 Roles and Responsibilities

2.5.1 Procurement Department

The procurement department to ensure that the successful contractor is accredited and / or registered as an Emergency Services service company actively involved in the provision of fire and emergency services in the industrial environment.

2.5.2 Service Provider

The Service Provider is required to provide Emergency Medical Services through professionally trained contract employees at Kriel Power Station; these employees must be available 24 hours a day on a seven day a week basis over a four years period to respond to emergency medical emergencies that may occur at Kriel Power Station. It is expected that the Service Provider shall adhere to the staff requirements set out in Annexure 1 of this scope of work. The Service Provider must comply with the OSH Act and Eskom Health Safety and Environmental Policies, SHE specifications and Generation Operational Standards. To that end, the Service Provider must appoint a suitably qualified safety officer who shall visit the Kriel Power Station at regular intervals but not less than monthly to review the Contractor safety file, conduct Job Observations and safety meetings.

2.5.3 Contract's Manager / Operations Controller

- Contract's Manager shall ensure that the technical evaluation score sheet is supplied to the tender evaluation committee.
- Contract's Manager shall verify that the Service Provider executes this scope of work accordingly.

2.6 Process for Monitoring

The Employer through the Service Provider Base Manager will hold formal weekly meetings to measure performance on an ongoing basis. Regular reviews and audits shall be conducted for the compliance of the content of this document. The SAP Plant Equipment Maintenance Management System shall be used to track or assess the scheduled inspection of equipment.

2.7 Related/Supporting Documents

* RSR0195 - Emergency Response for Emergency Response Teams Work Instruction

* RIR0113 - Kriel Emergency Preparedness Plan

Regulation 1320 of December 2017 - Emergency Medical Service Regulations

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3. Service Contract Scope of Work

3.1 Package scope

The Service Provider is required to provide an Emergency Medical Services at Kriel Power station for a period of Four years. Emergency personnel must be available 24 hours a day, seven days a week to prepare for respond to, and manage any emergencies that may occur at Kriel Power Station and within a 20 Km radius surrounding the Kriel Power Station located in Emalahleni.

3.2 The scope comprises of the following but is not limited to

Operations must be provided on a 24-hour operation, 7 days a week basis inclusive of a remote standby shift. These arrangements must be in line with Basic Conditions of Employment Act. Services to be rendered at, and on behalf of Kriel Power Station to include:

- a. Emergency Medical Services (Life support)
- b. Transportation of Patients to Medical Facilities of appropriate level of care
- c. Emergency Medical Consumables and Oxygen

The number of, qualifications and competencies of the contract employees to be aligned with the requirements laid out in Annexure 1 below.

3.2.1 Emergency Medical Rescue

All of the contract personnel per shift must be trained to the following rescue levels:

- a. Medical Care at BLS and ILS level of care as per Annexure 1. In the rescue setting, patient assessment in rescue medical care, identify emergency medical conditions and injuries, patient packaging for transport.
- b. Confined Space Rescue (team deployment, patient retrieval, patient assessment and stabilization).
- c. Respond to Mutual Aid Partners when called for assistance (Year one, two and three)

Kriel Power Station has several Mutual Aid Partners with who a mutual aid agreement is in place for management of emergencies. The Service Provider is to render a service free of charge to the formal Mutual Aid Partners of Kriel Power Station as part of this agreement. It should be noted that the call for assistance is at irregular frequency and only on an as-and-if required basis. Each Mutual Aid Partner is expected to have minimum and similar response capability as Kriel Power Station.

Mutual Aid Partners include:

- Eskom Matla Power Station (12 Km)
- Eskom Camden Power station (80 Km)

3.2.2 Emergency Medical Services

- a. Supply Emergency Medical Services (Level of Care) at ALS; ILS and BLS levels of care in accordance with the respective HPCSA protocols through the services of:

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- Minimum of One ILS per shift with over two shifts available ambulance duties (refer to Annexure 1 for details).
- Minimum of One BLS per shift with over two shifts for both ambulance duties (refer to Annexure 1 for details).
- b. Maintain ALS medical rescue services with one fully equipped and registered rapid medical response vehicle.
- c. Maintain ILS medical rescue services with one fully equipped and registered ILS medical ambulance manned by one ILS and one BLS as a minimum per shift.
- d. All emergency care personnel must maintain a valid HPCSA registration and minimum required CPD points at all times before they render emergency care to any patients under the service contract with Kriel Power Station.
- e. The Service Provider shall be required to maintain the rapid medical response vehicle and medical ambulance in a road worthy and mechanical sound and operational condition at all times.
- f. The Service Provider must have a contract in place with a National Call Centre to give a back-up medical support if there are mass casualty incidents involving more than four critically injured persons or incidents of Structural collapse, Excavation collapse, Scaffold collapse, Bomb threats, and Natural disasters on the site.
- g. Participate in Kriel Power Station emergency drills

3.2.3 Transportation of Patients to Medical Facilities

- a. The Service Provider will supply one fully equipped and registered ILS medical ambulance on fulltime basis, and the ambulance service and vehicle must comply with the requirements of the Emergency Medical Service Regulations. Ambulance to be demarcated with reflective sign - writing and fitted with audible and visual warning systems to be clearly recognized as a medical ambulance.
- b. All patients will be transported to the nearest medical facility with a level of care appropriate for the patient/s injuries and/or condition.
- c. If patients need to be transported to another medical facility in a neighboring Province, permission must be given by the General Manager - Kriel or the delegated Senior Manager.

3.2.4 Medical Consumables or Bill of Quantities

- a. The Service Provider must provide all emergency medical consumables and oxygen cylinders required for emergency medical care under this scope of work.
- b. The Service Provider must also ensure that daily checks on medical equipment are done and that equipment and consumables are within their expiry dates.

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3.3 Technical acceptability

Eskom will reserve the right, not to consider any tender that;

- a. Is not compliant with the scope of work.
- b. Do not return the supporting documents that are stated as gatekeepers to qualify for the tender evaluation process to continue.
- c. Does not provide sufficient information for Eskom to evaluate the tenderer's ability to comply with Safety, Health, and Environmental and Quality requirements of the tender.
- d. Meet technical and commercial requirements, which shall be clearly marked and indicated as tender returnable in the tender invitation. Tenders not complying with these requirements shall not be evaluated.
- e. Must have a Valid Emergency Medical Service Operating License from Department of Health (Mpumalanga Province)
- f. Must have a Valid Registration with the Board of Health Funders.
- g. Must provide proof of Ambulance Builder or Conversion Certificate and ENATIS Registration
- h. The Service Provider must have more than three years' experience in a field of Fire, Rescue and Emergency Medical Services in an industrial and / or mining environment.
- i. CV's and proof of competencies of all the employees must be attached.

3.4 Tender Requirements

- a. Proposal is to be submitted by the tenderers for the mentioned scope of work.
- b. Hereafter a contract shall be negotiated with the successful tender participant.
- c. The appointment of the successful Service Provider is at Eskom (Employer) sole discretion taking into account the factors, which Eskom considers relevant.

4. Acceptance

This document has been seen and accepted by:

Name	Designation
RS Maahlo	Risk & Assurance Manager
H Mokabane	Engineering Manager
NL Nyakane	Acting Risk Manager

5. Revision

Date	Rev.	Compiler	Remarks
December 2020	N/A	Paul Mulder	Scope of Work

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6. Development Team

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

- Nicolaas Du Toit Medupi Power Station
- Marius Engelbrecht Kendal Power Station

4. Acknowledgement

N/A

Annexure 1. Minimum Staffing Levels

Position	Quantities	Shifts	Qualifications & Competencies
Ambulance Crew	8		<ul style="list-style-type: none">➤ *HPCSA Registered Intermediate Life Support (ILS) (minimum one per shift)➤ *HPCSA Registered Basic Life Support (BAA) (one per shift)➤ *Code C1 Drivers Licence & PDP (minimum two per shift)➤ *BLS for Healthcare Providers Certificate➤ *Fully Equipped Ambulance as registered in the Department of Health together with its Operating Licence from Mpumalanga department of Health➤ *Valid Registration with the Board of Health Funders to determine experience➤
Total per shift	2		*Required
Total per Contract	8		

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