Eskom	SCOPE OF WORK	Engineering

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1. INTRODUCTION

This document outlines the comprehensive scope of work for the decommissioning of the 11kV and 400V temporary overhead power line that were erected under engineering request (500000026783). The purpose of these lines was to power park homes shown in Appendix A. The park homes were occupied by civil engineering contractor that was appointed for Ash Disposal Facility Extension Project Package 1. The contractor has since left site as such the existing park homes are no longer needed. Therefore, the power supply to the park home can be disconnected and the line decommissioned.

2. SUPPORTING CLAUSES

2.1 SCOPE

This scope of work document covers the complete decommissioning of the existing temporal overhead, including isolations and making safe, as well as reinstatement of all affected areas to their original or better condition.

2.1.1 Purpose

The purpose of this document is to define the step-by-step methodology for the safe execution of works, and to identify and assess the risks associated with the decommissioning of the 11 kV and 400 V overhead lines.

2.1.2 Applicability

This document shall apply to Kendal Power Station GCD only.

2.2 NORMATIVE/INFORMATIVE REFERENCES

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

2.2.1 Normative

[1]	ISO 9001 Quality Management Systems.	
[2]	ISO 14001 Environmental Management Standards	
[3]	Kendal Quality Manual	*1017374
[4]	Document and Record Management	*1015695
[5]	Non-Conformance, Corrective and Preventive Action	*1017357
[6]	Integrated Risk Management	*1017401
[7]	Control and Approval of Quality Plan	*1017482
[8]	Control of Monitoring and Measuring Equipment	*1017483

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[9] 240 -75883148 Conventional Stay Planting and Compaction, Pole Planting and Compaction and Rock Anchor Installation and Testing Standard

2.2.2 Informative

[10] 240-62196227 Life Saving Rules

2.3 DEFINITIONS

Definition	Description
Access	The permission for the area, building or machinery to be used for the purpose of carrying out the work subject to the regulations pertaining to Plant Permits and Work Permits.
Client	Eskom Generation Division Kendal Power Station
Cross Arm Assembly	A descriptive term used to include all pole top crossarm components and fixings.
Dead	Testing each conductor or bus with an approved voltage-detecting device, after isolations effected, to confirm the absence of voltage before earthing and commencing work.
Decommissioning	The planned, controlled process of isolating, disconnecting, dismantling, removing and disposing of or salvaging electrical plant, equipment and infrastructure that is no longer required for service.
Employer	Eskom Group Capital Division Kendal Power Station
Ground span	That horizontal distance between supporting structures, that on level ground with the conductor at maximum sag, enables the statutory clearance of the conductor above the ground to be achieved.
Isolation	Make safe to work on by effectively disconnecting from all possible sources of dangerous energy and / or harmful substances
Over Headline	Overhead power line, including all poles, conductors, stays, anchors, insulators, cross-arms, fittings and associated hardware.

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Definition	Description
Permit To Work	The permit issued in terms of Eskom Generation Plant Safety Regulations (GGR 0992), which allows work to be carried out on machinery for which a safety clearance certificate has been issued and become effective at safety clearance.
Responsible Person	Means a person who has been authorised in terms of these regulations to be responsible for ensuring that the work on the plant covered by a permit to work be carried out and executed taking health and safety precautions into account and within the terms of these regulations.
Risk Assessment	Program to determine as far as reasonably possible, what the dangers / hazards to the health and safety of persons attached to any activity or work and plant operation are and the precautions that are to be taken to mitigate the risks, dangers and hazards,
Sag	The vertical distance, under any system of conductor loading, between the conductor and a straight line joining adjacent supporting points, measured at.

2.3.1 Disclosure Classification

Controlled disclosure: controlled disclosure to external parties (either enforced by law, or discretionary).

2.4 ABBREVIATIONS

Abbreviation	Description
AC	Alternating Current
AO	Appointed Operator
GCD	Group Capital Division
Gx	Generation
HV	High Voltage
kV	Kilo Volts
LV	Low Voltage
OHL	Overhead Line
OHSA	Occupational Health and Safety Act
ORHVS	Operating Regulations for High Voltage Systems
PLS	Power Line Systems
PSR	Plant Safety Regulations
PTW	Permit To Work

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Abbreviation	Description
RP	Responsible Person
SANS	South African National Standards
WP	Work Permit

2.5 ROLES AND RESPONSIBILITIES

Safety and Environment Department

- Ensure compliance with OHS Act and putting in place of enforcement mechanism
- Regular internal communication at all levels by way of meetings and discussions concerning health and safety
- Identify hazards in different areas and conduct task risk assessments regarding employees acts
- Coordinate and identify SHE training gaps
- Development and implementation of safety policies and procedures
- Report incidents
- Provide waste management receptacles and mobile ablution facility/ies for employees on site
- Develop and Provide a detail Environment Management Plan to the acceptance of Eskom.
- This Activity to be conducted in line with the Integrated Environmental Authorisation and Eskom Updated Environment Management Program.

Quality and Assurance Department

- Ensure quality control processes are in place.
- Ensure adherence to Eskom operating procedures, policies, guidelines and plant safety regulations
- Review and accept quality plans

Projects Department

- Implement projects in line with the outage programme
- Management of contract services for the projects
- Ensure quality control of activities during projects
- Management of time cost and quality of projects

Contracts Manager

- Establish communication / interface links and meet on a regular basis with the Contractors, Construction Discipline Managers, Discipline Field Engineer, Commissioning Manager to discuss progress and issues regarding:
- Delays and Completion of works
- Conditions of the contract
- Ensure that all terms and conditions of the contract are complied with.

Project Manager

The project engineering manages role is to assure the technical integrity of a fully functional

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and operational plant that meets the user requirement and Eskom Engineering expectations and requirements.

2.6 PROCESS FOR MONITORING

Inspections and quality control documents will be used to monitor progress and quality of the work.

2.7 RELATED/SUPPORTING DOCUMENTS

- Refer to appendices.

3. DESCRIPTION OF WORKS

3.1 Employer's Objective and the Purpose of the works

The *Employer's* objective is to:

- Employ a successful *Contractor* to complete the works for the project within the agreed time frame and to the required quality standards in line with Eskom Health and Safety Regulations.
- Decommission, dismantle and remove from service temporal 1,5 km 11 kV and 1.8 km 400 V overhead power line and, including all associated structures, electrical equipment, conductors, insulators, stays, earthing and fittings within the defined Site.

The purpose of the works is to:

- Provide a safe, execution in decommissioning and dismantling OHL together with all activities necessary to isolate and make safe the assets, strip out, handle, transport and dispose of redundant materials, ensuring compliance with all applicable SANS standards, OHS Act and Eskom regulations in terms of PSR and ORHVS. The proposed works include rehabilitation of groundwork damage and implementation of environmental requirements.

3.1.1 Contractor's Design Responsibilities

The *Contractor* shall provide the Works to achieve the Employer's objective to safely decommission the existing 11 kV and 400V overhead power line and associated equipment, protect existing and future installations and avoid damage to persons, the works, properties and third-party assets.

The *Contractor* shall remove and dispose all redundant structural materials, including conductors, stays and earth wires electrical equipment, cables, to an approved local disposal site and, on completion of the Works, transports and dispose all remaining materials from Kendal Power Station to the dump site located approximately 70 km from the Site.

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3.1.2 Client's Responsibilities

The Client shall coordinate all isolations, work permit and confirmations of de-energisation with the Employer's Representative (GCD Site Supervisor) prior to commencing decommissioning activities, and no commence any dismantling shall commence until all isolations have done and the line has been declared and tested dead.

Client to provide an Authorised person, trained and competent in equipotential earthing, who shall continuously be available on-site during dismantling and stringing operations to verify that:

(i) All required temporary earths and bonds are correctly applied and maintained.

(ii) working clearances to all live conductors and adjacent lines are preserved.

(iii) The interface between decommissioning works, new line construction and other civil or line activities in the shared route does not introduce additional electrical or mechanical hazards.

3.1.3 Risk Assessment and Pole Stabilisation

The scope further mandates the contractor to conduct detailed pre-decommissioning risk assessments to identify potential hazards, to ensure a controlled and safe removal process.

The *Contractor* shall identify and record the structural condition and stability status of all support poles during the pre-job risk assessment and implement appropriate control measures prior to commencing work.

3.2 DETAILED SCOPE OF WORK

The works comprise the safe de-commissioning, disconnection, dismantling, removal, transport, disposal, of the complete temporary 11 kV and 400 V overhead power line (OHL) installation, together with the de-commissioning and disconnection of all associated electrical power supply to the park home, electrical equipment (which includes drop down cables and transformer). The work includes transportation of all disposal materials to the storage facility to be provided by the Employer.

3.2.1 Decommissioning of 11kV 1.5km OHL

The *Contractor* shall:

i) Provide suitable equipment/machinery for the extraction, loading, securing, transporting and off-loading of the retracted poles, and ensure that all associated lifting equipment comply with the Occupational Health and Safety Act and the Construction Regulations.

ii) De-tension the overhead line conductors safely and in line with an approved method statement.

iii) Remove line anchors; line stays and all cross-arms from the overhead line pole structures and transport them to the designated dumping site located approximately 70 km from the ADF area.

iv) Retract all existing 16 m long poles (24 poles in total) from the ground.

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v) Remove all 35 mm² fox line conductors from the overhead line.

vi) Unfasten all conductors from the two-strain pole in a controlled sequence and in accordance with the approved method statement.

vii) Remove all line jumpers from the overhead.

The Contractor shall be responsible for loading, securing, transporting and off-loading all the disposable structures and materials at the local storage facility provided by the Employer and to the dump site located approximately 70km from the Kendal ADF site.

- The *Contractor* shall remove the existing 315 kVA, 11 kV / 400 V transformer (approximate mass 550 kg) from the concrete slab. The Contractor shall provide suitable lifting equipment and rigging arrangements rated for the mass of the transformer, in compliance with the Driven Machinery Regulations.

- The *Contractor* shall transport the removed 315 kVA transformer from the site and deliver it to the Employer's designated premises located approximately 3 km from the ADF area. The Contractor shall hand over the transformer to the Employer's representative and obtain written acknowledgement of receipt.

- The *Contractor* shall break out and remove the existing 2 m × 2 m × 0,2 m concrete transformer slab from the Site and transport the debris to the designated disposal facility located approximately 70 km from the ADF area. The Contractor shall reinstate the area previously occupied by the slab to the safest condition in line with safety and environmental requirements.

- The *Contractor* shall remove all cut-out fuses and surge arresters associated with the 11 kV fox conductor.
- The *Contractor* shall remove the distribution board associated with the 315 kVA transformer and hand it over to the Employer's representative. The Contractor shall obtain written acknowledgement of receipt from the Employer upon handover.

- The *Contractor* shall remove the existing 250 m long, 70 mm² and 6 mm² power cables from the Site and hand them over to the Employer's representative. The Contractor shall obtain written acknowledgement of receipt from the Employer upon handover.

- The *Contractor* shall remove the gang isolator from the overhead line.

3.2.2 Decommissioning of 400V 1.8km OHL

- The *Contractor* shall remove and retract eighteen (18) poles installed to an approximate depth of 1.5 m below ground level. All excavated areas shall be backfilled, compacted, and rehabilitated to match the surrounding ground conditions.

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- The *Contractor* shall unstring and remove approximately 1.8 km of bundled conductor from the eighteen (18) poles, ensuring that the works are carried out safely and without damage to surrounding infrastructure.
- The *Contractor* shall coil, handle, and transport all removed bundled conductors to the designated disposal site located approximately 70 km from the ADF area.
- The *Contractor* shall remove two (2) splitter boxes and hand these over to the Employer in a clean and undamaged condition at a location designated by the *Employer*.
- The *Contractor* shall remove the exposed portion of the power cable, approximately 100 m and 35 mm², and hand it over to the Employer in a recoverable condition.

All materials designated for handover shall remain at the local storage facility provided by the *Employer*, and the *Contractor* shall ensure proper handling, storage, and delivery.

3.3 GENERAL REQUIREMENTS

3.3.1 Health & Safety requirements

The *Contractor* prepares and submits a health and safety plan (Safety File) in terms of the Construction Regulations, 2014, for acceptance by the Project Manager before accessing the Site.
The *Contractor* shall co-ordinate with the Employer to ensure that the Employer isolates the temporary 11 kV overhead power line from the Eskom Generation (Gx) prior to the commencement of any work. The *Contractor* shall not commence any works on the line until the Permit to work has been issued stating that the line has been isolated and is safe to work on.
The *Contractor* must ensure that the below safety measures are implemented:

- Fall protection measures are in place for all work at heights, including pole climbing and lowering the conductor.
- Lifting operations comply with the Driven Machinery Regulations and the Contractor's approved lifting plan.
- The *Contractor* must provide and maintains all personal protective equipment (PPE).

Only competent, authorized person carry out switching, isolation, proving dead, earthing and live-line-proximity work.
Permit to Work system shall be maintained for all HV and LV isolation and de-commissioning activities.
Working near live lines shall comply with the minimum clearances must be in line with ORHVS and OHSA requirements, and these clearances shall be always maintained during dismantling and ongoing construction activities.

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3.3.2 Quality Requirements

The *Contractor* prepares and submits a quality plan for acceptance by the Project Manager before starting work on Site. The quality plan addresses, as a minimum:

- Inspection and test plans (ITPs) for each key activity (isolation, dismantling, excavation, reinstatement).
- Hold and witness points.
- Non-conformance reporting and corrective action procedures.

3.3.3 Environmental Requirements

- All waste classified, handled, transported and disposed of at a licensed facility in compliance with the National Environmental Management: Waste Act.
- Waste manifests and disposal certificates shall be submitted to the Project Manager
- All environmental related incidents must be reported immediately to the Project Manager and the relevant environmental site representative.

3.3.4 Other Contractual Requirements

Acceptable Dismantle Practices – Once the conductors have been removed from the wooden poles, the method for dismantling and removal of poles from the site shall comply with the current safe work practices

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4. CIVIL WORKS

4.1 Backfilling Of Excavations Post Removal of the 11kV & 400V Powerlines

- The *Contractor* shall barricade all work areas and install appropriate warning signs in accordance with the Employer's health and safety requirements.
- The *Contractor* shall procure and supply suitable backfill material (G5/G6) from a quarry and shall provide the associated material quality certificates and mining rights.
- The *Contractor* shall remove and dispose of all debris, loose spoil and unsuitable material from the pole excavations once the poles have been removed, in accordance with the environmental and waste-management requirements stated in the Scope.
- The *Contractor* shall prepare and trim the excavations to ensure that they are suitable for backfilling.
- The *Contractor* shall backfill the excavations in accordance with SANS 1200, 240-75883148 and SANS 2001, placing backfill in layers not exceeding 150 mm loose thickness until ground level.
- The *Contractor* to rehabilitate the areas after backfilling. Rehabilitation to comply with SANS 2001 BE1, revegetation to be conducted in vegetated areas.

5. COMPLETION OF THE WORKS

- On completion of the work all equipment shall be lowered to the ground and the site cleared of all debris; split; wire nuts bolts etc.
- Removed all 11 kV and 400 V OHL conductors, poles, stays, anchors, insulators, cross-arms, fittings and hardware and electrical equipment from the Kendal ADF Site as quickly as possible to reduce theft and damage to people or other site infrastructure.
- De-commissioned and disconnected the park home electrical supply, with all supply points terminated and made safe.
- Removed or disposed of all temporary distribution equipment, switchgear, transformers, protection and metering devices.
- Backfilled all excavations and reinstated disturbed areas to the condition stated in this Scope.
- Obtained and submitted waste disposal certificates to the Project Manager.
- Handed over a safe, clean Site with no remaining poles, stumps, stay rods, anchors, debris or unsafe remnants.

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6. AUTHORISATION

This document has been seen and accepted by:

Name & Surname	Designation	Signature
	Gx Electrical Engineer (LDE)	
	GCD NEC Site Supervisor	
	GCD Senior Advisor	
	GCD Programme Manager	
	GCD Safety Health & Environment Manager	
	GCD Discipline Contracts Manager	
	GCD Central Middle Comm Manager	
	GCD Central Chief Engineer	
	GCD Central Commissioning Manager	
	GCD Central Civil Engineer	
	GCD Central Mechanical Engineer (EDWL)	

7. REVISIONS

Date	Rev.	Compiler	Remarks
January 2026	1	M Tose	Final scope
January 2026	2	M Tose	Incorporated environmental inputs
February 2026	3	M Tose	Incorporated QS inputs
March 2026	4	M Tose	Civil engineering inputs incorporated
April 2026	5	N Khumalo	Disconnection Points and General requirements revised.

8. DEVELOPMENT TEAM

9. ACKNOWLEDGEMENTS

- None

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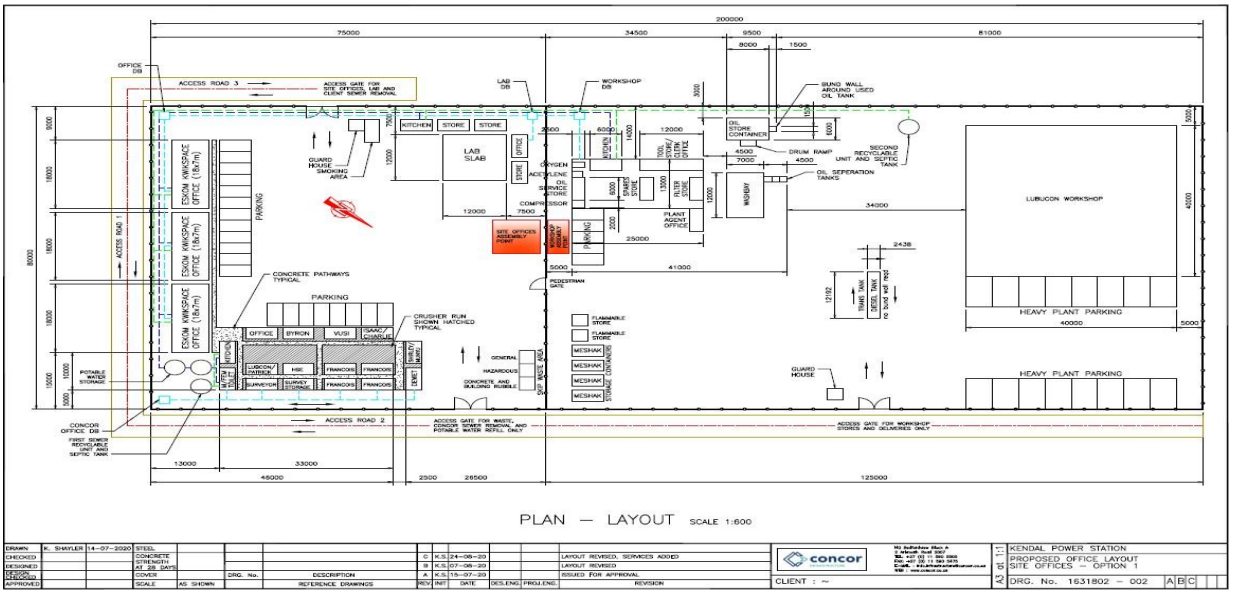
APPENDIX A: Lay Down Area For A Civil Engineering Contractor



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Appendix B: Disconnection Points





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