	Eddy current inspections (NDT) - Waterway at Palmiet Pump Storage.	Template Identifier	32-726-037	Rev	01
		Document Identifier	364-685847	Rev	01
		Effective date	May 22		

Project Name: Eddy current inspections (NDT) - Waterway at Palmiet Pump Storage.

Project Address: Palmiet Power Station Rock View Dam Rd, Grabouw, 7160

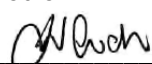
Scope of the project: Current scope for ISI 18 assume full access and no scaffolding limitations. Standard platforms will be required to be erected inside the waterways in order to access these positions. These platforms will be erected and controlled by a rope access contractor. The NDE inspectors must liaise with the access contractor in terms of where the platforms will be required and in accordance with the NDE inspection program. Access into the waterway is via a 600mm diameter manhole.

All equipment and plant materials are required to enter and exit via this manhole. Suitable lighting will be provided by site for contractors to enter and exit the manholes however contractors are to arrange their own lighting in order to carry out their duties. Electricity points are available at the manholes. The Contractor removes all debris from the tunnel and transports it to a designated spoil dump. All materials, plant and equipment are removed, and all personnel evacuated from the waterway prior to the specified time for closure of the tunnel as indicated in this document and more specifically defined by the power station during the outage.

Eskom' Manager Site Outage Executor
Name : Stuart Van Diemen

Signature :  _____


Eskom's O&M/Plant Manager
Name: Lisa Godlo

Signature:  _____

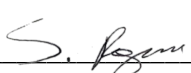
Eskom's Snr Technician Engineerin
Name : Mogammad Kamedien

Signature : pp  J. Fielies _____

Eskom's OHS Officer
Name: Thulane Majebe

Signature :  _____

Eskom's Project Coordinator Tech
Name : Sisonke Rozane

Signature :  _____

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1. INTRODUCTION

Eskom's responsibility and commitment is to ensure a safe working environment is in line with its Safety, Health, Environmental, and Quality (SHEQ) Policy and applicable legislative obligations. This OHS specification is Eskom Generation's minimum requirements which are required to be met for the duration of the contract period by contractors/suppliers and, where required, the delivery organisation. The contractor is expected to develop an OHS plan that meets these requirements as well as all the relevant applicable legislation that they conform to. Eskom in no way assumes the contractor's legal responsibilities. The contractor is and remains accountable for the quality and execution of their health and safety programme for their employees and appointed contractor employees. This OHS specification reflects minimum requirements and should not be construed as all-encompassing.

Note 1: All the requirements listed hereunder are in relation to the contract and do not supersede or replace any organizational OHS requirements.

Where requirements listed are already in place, then the organizational requirements must be taken cognisance of and listed in the respective OHS plans. If there are any additional Eskom and/or legislative requirements listed in the OHS specification, then these must be addressed.

2. SUPPORTING CLAUSES

2.1 SCOPE

This OHS specification lists the legislative and Eskom requirements and, where applicable, any requirements pertaining to local authorities, municipal by-laws, or environmental legislation that must be met by the contractor.

2.1.1 Purpose

This document will provide a standardised approach to the compilation of OHS specifications throughout Eskom Generation business for contracts, standards, and NEC 3.

2.1.2 Applicability

This OHS specification is applicable to any contracting organisation that intends to respond to Eskom Generation's tender/enquiry with the intention of entering into a contract.

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

- Basic Conditions of Employment Act No 75 of 1997.
- Occupational Health and Safety Act and Regulations No 85 of 1993.
- OHS Act "Regulations on Hazardous Work by Children in South Africa"
- Eskom does not condone the use of child labour and therefore all effort must be exercised and c
- National Environmental Management Act 107 of 1998.
- National Road Traffic Act 93 of 1996.
- 32-37 Eskom Substance Abuse Procedure.

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- 32-136 Contractor Health and Safety Requirements
- 240-62196227 Life- saving Rules
- 32-95 Environmental, Occupational Health and Safety Incident Management Procedure
- 32-727 SHEQ Policy
- 32- 418 Working at Heights Procedure
- 240-62946386 Vehicle and Driver Safety Management Procedure
- 32-520 Risk Assessment procedure
- Plant Safety Regulations
- ISO 45001
- Eskom Covid-19 policy
- National Disaster Management Act 57 of 2002
- Requirements for Non-Destructive Testing (NDT) on Eskom Plant Standard
- Eskom NDT Personnel Approval (NPA) for Quality Related Special Processes on Eskom Plant Standard

2.2.2 Informative

- [1] Tobacco Products Control Act 83 of 1993 (Updated 2011.05.19)
- [2] SANS 1186 Symbolic Safety Signs
- [3] Constitution of the Republic of South Africa No 108 of 1996
- [4] DMN 34-110 Operating A Vehicle Mounted

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2.3 Definitions

Definition	Explanation
Appointed contractor	Means a contractor appointed by the main contractor
Baseline risk assessment	(32-520) baseline operational risks refer to the health and safety risks associated with all standard processes and routine activities in the business
Business unit (BU)	(32-296) means any defined unit within the Eskom environment, operating as a business under a particular cost-centre number. In the context of this document and in terms of health and safety, any reference to a BU includes a defined unit within any Eskom division and its subsidiaries
Client	(OHS Act) Eskom representative (Internal – Asset Owner), also referred to as the contract administrator/custodian or agent or project manager (as defined in the contract). He/she is the person responsible for ensuring that the works or services are executed in terms of the contract, as well as adherence to legislation pertaining to the contract.
Competent person	(OHS Act) means any person having the knowledge, training, experience, and qualifications, specific to the work or task being performed, provided that, where appropriate, qualifications and training are registered in terms of the South African Qualifications Authority Act, 1995 (Act No. 58 of 1995)
Contractor	(OHS Act) means an employer as defined in section 1 of the Act who performs contracted work and includes main contractors
Contract's Manager/End User	Contract's Manager/End User
Consultant	means a person providing professional advice
Controlled disclosure	controlled disclosure to external parties (either enforced by law or discretionary)
Duty of care to the environment	(32-136) anybody who causes or has caused or may cause significant pollution or degradation of the environment must take reasonable measures to prevent such pollution or degradation from occurring, continuing, or recurring. If such harm to the environment is authorised by law or cannot reasonably be avoided or stopped, such person must minimise and rectify such pollution or degradation of the environment
Employee	(OHS Act) means, subject to the provisions of subsection (2), any person who is employed by or works for an employer and who receives or is entitled to receive any remuneration or who works under the direction or supervision of an employer or any other person
Employer	(OHS Act) means, subject to the provisions of subsection (2), any person who employs or provides work for any person and remunerates that person or expressly or tacitly undertakes to remunerate him/her, but excludes a TES (ex labour broker) as defined in section 1(1) of the Labour Relations Act 1956 (Act No. 28 of 1956)
Environment	(32-94) means: <ul style="list-style-type: none"> a) the land, water, and atmosphere of the earth; b) micro-organisms and plant and animal life; and c) any part or combination of (a) and (b) and the interrelationships among and between them, and the physical, chemical, aesthetic,

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	and cultural properties and conditions of the foregoing that influence human health and well-being
Eskom requirements	Eskom requirements flowing from directives, policies, standards, procedures, specifications, work instructions, guidelines, or manuals
Fall protection plan	(OHS Act) means a documented plan of all risks relating to working from an elevated position, considering the nature of work undertaken, and setting out the procedures and methods to be applied in order to eliminate the risk
Hazard	(OHS Act) means a source of, or exposure to, danger
Hazard identification	(OHS Act) means the identification and documenting of existing or expected hazards to the health and safety of persons, which are normally associated with the type of construction work being executed or to be executed
Occupational Health and safety file	(OHS Act) means a file or other record in permanent form, containing the information required in relation to the contract.
Occupational Health and safety plan	(OHS Act) means a document plan that addresses hazards identified and includes safe work procedures to mitigate, reduce, or control hazards identified
Occupational Health and safety specification	(OHS Act) means a document specification of all health and safety requirements pertaining to associated to a contract, so as to ensure the health and safety of persons.
Occupational Health and safety requirements	means comprehensive health and safety requirements for a contract, project, site, and scope of work. This specification is intended to ensure the health and safety of persons, both workers and the public, and the duty of care to the environment. The health and safety requirements must be specific to each contract, project, site, and scope of work
Life-saving Rules	(240-62196227) a rule that, if not adhered to, has the potential to cause serious harm to people
Medical Certificate of fitness	(OHS Act) means a certificate valid for one year, issued by an occupational health practitioner, issued in terms of the regulations, whom shall be registered with the Health Professions Council of South Africa
Medical surveillance	(OHS Act) means a planned programme or periodic examination (which may include clinical examinations, biological monitoring, or medical tests) of employees by an occupational health practitioner or, in prescribed cases, by an occupational medicine practitioner
Method statement	(OHS Act) means a written document detailing the key activities to be performed in order to reduce, as reasonably as practicable, the hazards identified in any risk assessment
Organisation	may be defined as a group of individuals (large of small) that is cooperating under the direction of executive leadership in accomplishment of certain common objects
Pre-job meetings	(34-227) means a meeting that is held prior to the commencement of the day's work and that is attended by all the relevant employees associated with the work task
Main contractor	(In the text of this document) Means an employer, as defined in section 1 of the OHS Act, who intends to tender for or has signed a contract with Eskom for services rendered.
Provincial director	(OHS Act) means the provincial director as defined in Regulation 1 of the General Administrative Regulations under the Act

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Responsible Manager	Is a Manager of a department, section or operating/business unit who has been appointed as part of the Eskom delegation of authority process with the aim to assist the applicable 16(2) assigned person in executing his/her duties in terms of the Occupational Health and Safety Act
Risk assessment	(OHS Act) means a programme to determine any risk associated with any hazard at a construction site in order to identify the steps needed to be taken to remove, reduce, or control such hazard.
Site	(34-228) means an Eskom department, unit, complex, building, specific project, work site, or the site where agents, clients, main contractors, contractors, suppliers, vendors, and service providers provide a service to Eskom, directly or indirectly
Service provider	any private person or legal entity that provides any service(s) to Eskom for compensation
Subsidiary	(32-94) an enterprise controlled by another (called the parent) through the ownership of greater than 50% of its voting stock
Supplier	(32-1034) means a natural or legal person who renders a service and may include the following current or potential supplier vendor, contractor, consultant
Task	(34-227) a segment of work that requires a set of specific and distinct actions for its completion
Toolbox talks	(34-227) where the team leader, after conducting pre-task planning, shares all the tasks at hand and discusses task allocation, the identified risks, and the control measures with all his/her team members on site before commencing a specific task and documenting the agreed strategy. (This shall be done to ensure common understanding of the tasks, risks, and control measures required.)
The Act	(OHS Act) means the Occupational Health and Safety Act No. 85 of 1993, as amended, and the Regulations thereto
Visitor	any person visiting a workplace with the knowledge of, or under the supervision of, an employer.

2.4 ABBREVIATIONS

Abbreviation	Description
BU	Business Unit
CE	Chief Executive
COID Act	Compensation for Occupational Injuries and Diseases Act
DMR	Driven Machinery Regulations
DEL	Department of Employment and Labour (Inspection and Enforcement services – Provincial office)
EP	Emergency Preparedness
EAP	Employee Assistance Program

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Abbreviation	Description
ERfW	Environmental Regulations for Workplaces
GAR	General Administrative Regulations
GSR	General Safety Regulations
HCS	Hazardous Chemical Substances
LDV	Light Delivery Vehicle
MSDS	Material Safety Data Sheets
OHS Act	Occupational Health and Safety Act and Regulations, 85 of 1993
O&M	Operating and Maintenance
LoG	(COID) Letter of Good Standing
SABS	South African Bureau Standard
SANS	South African National Standard

2.5 RELATED/SUPPORTING DOCUMENTS

Section 37(2) of the OHS Act requires Eskom to sign an agreement and include it in the OHS file for evaluation prior to the start of work. OHS department will issue the 37(2) agreement to the project manager/end user who will facilitate the signing of the document by Eskom and contractor representatives.

3. DOCUMENT CONTENT

3.1 SCOPE OF WORK

The waterway at Palmiet Pump Storage Scheme consists of the following:

Steel lined Section

- Headrace tunnel - 750m long, 6.2m diameter
- 55-degree inclined shaft - 130m long, 6.2m diameter
- Pressure tunnel - 487m long, 6.2m diameter
- Penstock - 561m long, 5.4m diameter
- 2 x incl. penstock shafts - 131m & 134m long, 3.9m dia.

Concrete lined Section

- 2 x tailrace tunnels - 84m and 57m long

The steel lined section of the waterway is coated with an epoxy coating system of Copon Hotcote DW and Sigmaguard EHB. The welds of the steel lined section of the waterways are to undergo NDT as per the inspection philosophy set out by Eskom Sustainability and Innovation Department(S&I). These inspections are required to ensure the safe operation of the system.

The waterway is to be dewatered during the period:

Unit 1 – 13th February 2023 to 17th May 2023

Unit 2 – 13th February 2023 to 02th April 2023

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Both units will be out from the 13TH February 2023 to the 2 April 2023 for a period of 48 days. Inspections and repairs will be done during this time.

INSPECTION REQUIREMENTS

Highly stressed sections of the waterways are classified as Group 1 and lower stressed sections are classified as Group 2. The bifurcation (or taurus) is not classified under any of these and is treated separately.

Group 1 sections include:

- All longitudinal welds in ROQ-TUF (RQT) material
- All manholes including all the welds of the can in which the manhole is installed
- All welds on cans with a change of section
- All welds on cans with a change in material
- All triple points (intersection of longitudinal and circumferential welds) in RQT material

Group 2 sections include:

- All circumferential welds
- All longitudinal welds in BS1501 material

The inspection philosophy specifies that all Group 1 sections will be inspected by an approved surface and volumetric non-destructive-examination (NDE) technique. These sections can be inspected progressively but should be inspected at least every 15 years.

Group 2 sections are to be progressively inspected by an approved surface inspection technique only and at least every 20 years. Should any defects be detected further sizing using ultrasound techniques (UT) is required.

The bifurcation is to be inspected by an approved surface and volumetric NDE technique at least every 8 years.

The following guidelines are given when indications are found in Group 1 materials:

- 1) Defects detected by AET, ET and MT that exceeds 50 mm length must be evaluated by UT and disposed of during the same outage.
- 2) Defects detected by AET or ET with depths less than 3 mm must be sized by UT and disposed of within three ISI's (6 years).
- 3) Defects detected by AET or ET with depths greater than 3 mm and less than 6mm must be assessed by UT and disposed of within the next ISI (3 years).
- 4) Defects detected by AET or ET with depths greater than 6 mm must be assessed by UT and disposed of within the same ISI.

For group 2 materials the guidelines are:

1. Defects detected by AET, ET and MT that exceeds 50 mm length must be assessed by UT and disposed of during the same outage.
2. Defects detected by AET or ET that exceeds 6 mm in depth (> 2 mV) must be assessed by UT during the same outage and disposed of.
3. Defects detected by AET or ET with depths less than 6 mm (<2 mV) must be sized by UT within three ISI's (6 years) and disposed of.

The following guidelines apply to the bifurcation:

1. Defects detected by AET, ET and MT that exceeds 25 mm length must be evaluated by UT and disposed of during the same outage.
2. Defects detected by AET or ET with depths less than 3 mm must be assessed by UT and disposed of within the next two ISI's (4 years).
3. Defects detected by AET or ET with depths that exceed 3 mm must be assessed by UT and disposed of within the same ISI.

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INSPECTION HISTORY

- Headrace Tunnel – Can 01 to 104 (Group 2):
- All cans have been fully or partially inspected at the latest in 2012..
- Inclined Shaft – Can 105 to 121 (Group 2)
- All cans have been fully or partially inspected since 2012. A number of indications all smaller than 2mm are reported up to ISI14. These have to be re-inspected by 2029.
- Pressure Tunnel – Can 122 to 171 (Group 2)
- All cans have been fully or partially inspected since 2001. A number of indications, all smaller than 2mm, are reported up to ISI15. These sections have to be re-inspected in 2016. A flaw in can 146 has been monitored from ISI to ISI and no propagation/change was again noted in 2012 during ISI14. Can 121 to 171 was missed in ISI 16 due to flooding. This needs to be inspected in the next ISI.
- Pressure Tunnel – Can 172 to 230 (Group 1)
- All cans have been fully or partially inspected since 2003. Twenty defects were identified by automated eddy current inspections that are between 3 to 6mm. 13 of these were re-inspected by manual UT in 2008 and all of these were found to be non-recordable i.e. below 5mm. It is thus concluded that these defects have not propagated/changed since 2005.

NOTE:

Large manufacturing defect in can 217 identified and repaired in 2008 (ISI12).

- Penstock – Can 231 to 270 (Group 1)
- All cans have been fully or partially inspected since 2013.
- Bifurcation – Can 271
- Can 271 was fully inspected by AET and partially by UT in 2017 (ISI17). No recordable indication. A full inspection to be done in 2025.
- Penstock Shaft 1 – Can 272 to 291 (Group 1)
- All inspections have been fully or partially completed since 2008 (ISI 12).
- Penstock Shaft 2 – Can 292 to 309 (Group 1)
- All inspections have been fully or partially completed since 2013 (ISI15).
- Spiral Casings
- No record of inspections at this time.
- Surge Tank- Can 350 to 355
- AET inspections of can 350 to 355 conducted 2012 (ISI14). No indications reported in information covering ISI5 to ISI14.
- Manholes 1 to 4
- These have been fully inspected in 2012 (ISI10) and number of small indications (less than 2mm) are reported. A 0.6 and 3mm indication were detected for manhole 2 and 3 respectively (ISI15) but are reported not to have changed since ISI5.

It is planned with the upcoming outage to do NDE, Eddie Current testing, on the welds of the waterways to meet the minimum requirement as stipulated in the inspection philosophy.

The positions of the longitudinal welds are as follows:

When looking down steam

- 1) staggered between the 10 O'clock and 11 O'clock positions
- 2) staggered between the 3 O'clock and 4 O'clock positions
- 3) staggered between the 7 O'clock and 8 O'clock positions

Positions of the welds required to be examined are as per tables 1, 2 and 3:

Concerning Indications Found During ISI 16: None

Figure 2 ISI 18 Proposed Inspection:

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Current scope for ISI 18 assume full access and no scaffolding limitations.

Automated ET	Scan	Can start	Can end
	circ+long	121	171
	circ+long	271	271
	circ+long	272	291
	circ+long	350	355

Standard platforms will be required to be erected inside the waterways in order to access these positions. These platforms will be erected and controlled by a rope access contractor. The NDE inspectors must liaise with the access contractor in terms of where the platforms will be required and in accordance with the NDE inspection program.

Access into the waterway is via a 600mm diameter manhole. All equipment and plant materials are required to enter and exit via this manhole. Suitable lighting will be provided by site for contractors to enter and exit the manholes however contractors are to arrange their own lighting in order to carry out their duties. Electricity points are available at the manholes. The Contractor removes all debris from the tunnel and transports it to a designated spoil dump.

All materials, plant and equipment are removed, and all personnel evacuated from the waterway prior to the specified time for closure of the tunnel as indicated in this document and more specifically defined by the power station during the course of the outage. There is no guarantee that the invert of the waterways will be 100% dry. In recent years the top gate has been unable to seal completely resulting in a stream of between 100mm to 300mm wide running down the centre.

3.2 LEGAL COMPLIANCE

3.2.1 Section 37(2) (Legal) Agreement

A section 37(2) agreement must be signed between Eskom and the main contractor at the time of submitting the safety file. The main contractor must ensure that a section 37(2) agreement is compiled between the main contractor and all their appointed contractors for the contract. The original copy of the section 37(2) agreement must be retained by the contractor, and a copy must be retained by the responsible project manager/end user. A copy of all the agreements must form part of the respective contractor's OHS file.

3.2.2 Child Labour

The constitution of the Republic of South Africa, in the "Bill of Rights", is clear on the rights of children, especially when it comes to:

1. *being protected from exploitative labour practices.*
2. *not be required or permitted to perform work or provide services that*
3. *are inappropriate for a person of that child's age; or*

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4. *This places at risk the child's well-being, education, physical or mental health, or spiritual, moral, or social development* and the Basic Conditions of Employment Act, Chapter six, Section 43, "Prohibition of employment of children."

Before resorting to the use of child labour, due consideration must be given to the child's constitutional rights. Where work is being performed which is not prohibited in terms of the constitution, then such work must be conducted in terms of the OHS Act "Regulations on Hazardous Work by Children in South Africa" with emphasis on paragraph 2: Purpose and Interpretation. Eskom does not condone the use of child labour and, therefore, all effort must be exercised, and child labour should not be used.

3.2.3 OHS Act

The main contractor and appointed contractors shall have an up-to-date copy of the OHS Act and regulations which will be available to all employees.

3.2.4 Legislative Compliance

All contractors will comply with all the legislation pertaining to this contract being:

The main contractor and all appointed contractors will comply with all the legislation pertaining to this project being:

- The Constitution of the Republic of South Africa (particularly Section 24 of the Bill of Rights).
- Occupational Health and Safety Act 1993 (Act 85 of 1993) and its Regulations.
- National Environmental Management Act 1998 (Act 107 of 1998).
- Environment Conservation Act 1989 (Act 73 of 1989).
- National Water Act 1998 (Act 36 of 1998).
- Civil and Building Work Act.
- National Road Traffic Act 93 of 1996.
- Compensation for Occupational Injuries and Diseases Act.
- SANS Standards –Contractor shall use the relative standards applicable to the project.
- Unit Standards for working at heights training - 229998 and 229995

3.3 ESKOM REQUIREMENTS

All contractors shall, before commencement of the project ensure that all their employees are familiar with the relevant Eskom OHS documentation that is applicable to contract services.

3.4 SHEQ POLICY

A SHEQ policy is a statement of intent and a commitment by the organization's CE and senior management in relation to the relevant OHS roles and responsibilities, the achievement of their strategic objectives, and values of integrity, customer satisfaction, excellence, and innovation. The main contractor and all appointed contractors, if not already in place, will be required to compile an organisational SHEQ policy in line with their OHS responsibilities. The policy must be signed by the organisation's CE or the appointed assistant to the CE, OHS Act Section 16(2). The policy must be displayed in a prominent place within the workplace. A copy of the policy must be filed in the contractor's OHS files and attached as an annexure to the OHS Plan.

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3.5 COVID 19 POLICY

Due to the current pandemic the contractors are required to submit the Covid policy signed by the most senior person. The policy must be displayed in a prominent place within the workplace. A copy of the policy must be filed in the contractor's OHS files and attached as an annexure to the OHS Plan.

3.5.1 Covid-19 requirements

Covid-19 costs are not for profit making purpose and Eskom reserves the right to accept and/or decline the list of PPE which will be listed in the detailed Covid-19 costs. Due to the current pandemic the contractors are required to provide Eskom with a Covid-19 risk assessment and a detailed plan on how to prevent the spread of the virus and what control measures will be put in place to protect Eskom employees and members of the public. The risk assessment must include the following but not limited to, adherence to Covid-19 protocols in designated smoking areas. Covid-19 costs are applicable for the duration of the pandemic and the Covid-19 costs will be ceased once the country has declared that Covid-19 is no more a pandemic. The contractors have an obligation to comply with the National Disaster Management Act including the appointment of the Compliance Officer.

3.6 COID

The main contractor and all his/her appointed contractors shall be registered with an appropriate employment compensation commissioner and have available a valid letter of good standing (LoG) from such commissioner. The obligation lies with the contractors to ensure that the LoG remain valid throughout the contract period. A copy of the LoG must be filed in the contractor OHS files.

3.7 COSTING FOR OHS WITHIN THE PROJECT

The costing for OHS must be itemised based on the overall scope of the work (i.e.) Training, provision of PPE, safety equipment purchases etc.

3.8 STATUTORY APPOINTMENTS

The main contractor and all appointed contractors must appoint competent workers who will comply with the OHS Act for the duration of the contract. Before requiring appointees to accept an appointment, the employer must ensure that they have received appropriate training and/or information about their responsibilities. The relevant statutory appointments must be made in compliance with the OHS Act's criteria, which include appointing a qualified individual to the appropriate roles. The following should be included in the statutory appointments, but not limited to:

- OHS Act General Administrative Regulation 9(2) – Incident Investigator
- OHS Act Section 19 (3) - Health and Safety Committee Member
- OHS Act Section 19(6)(a) – Co-opted Health and Safety Committee member
- OHS Act Hazardous Chemical Substances Regulation 3(3) Hazardous Chemical Substances Co-coordinator
- OHS Act, Section 17 – Health and Safety Representative.
- OHS Act General Machinery Regulation 2(1) – Supervision of Machinery
- OHS Act: Pressure Equipment Regulations 11 & 12 Portable Gas Container Inspector
- OHS Act General Safety Regulations 3(4) – First Aider/s
- OHS Act CR10.1 Fall Protection Plan Developer
- Standard for Non-Destructive Testing (NDT) on Eskom Plant- NDT SUPERVISOR

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- Standard for Non-Destructive Testing (NDT) on Eskom Plant- NDT OPERATOR

3.9 GENERAL REQUIREMENTS FOR ALL NDT PERSONNEL NDT personnel (Level 1, Level 2 and Level 3) shall :

- Maintain their certification status in accordance with requirements of the NDT scheme to which they are certified [e.g. work continuity in method without significant (12 months) breaks, visual acuity and other statuses as required by code or this standard].
- be in possession of a written authorisation, supplied by their employer, authorising the individual to carry out defined NDT tasks. This includes labour hire contractors who will be authorised by the contracting NDT SP Level 3. Ensure that work conducted on Eskom Plant does not exceed their certified status. not undertake NDT tasks for which they are not authorised.

3.10 NDT SERVICE PROVIDER APPOINTED LEVEL 3

The NDT SP appointed Level 3's shall have a minimum of 5 years of power plant practical experience. A secondary NDT Level 3 shall be appointed for methods which the primary Level 3 holds no certification. The NDT Level 3 taking responsibility for the activities performed by NDT Level 1 and Level 2 personnel therefore employed /contracted by the NDT SP shall:

- Be qualified and certified in the methods for which they are responsible as a Level 3.
- Be nominated by the SP and presented to Eskom as the primary NDT Level 3 for the methods in which they are qualified and certified. Hold a valid Level 2 in the method for which they are accountable in order to comply with the requirements of this standard. This will allow Level 2 NDT functions to be carried out by the NDT Level 3, including the reviewing of reports, evaluation of NDT data and performing NDT operations.

Additionally, the NDT SP Level 3 shall be required to demonstrate competency in the advanced methods for analysis and use of relevant software. Where the NDT SP appointed Level 3 does not meet these requirements, that individual shall not be permitted to perform any NDT operations on Eskom plant.

- Ensure that work is undertaken by Eskom Approved, certified and authorized NDT personnel in accordance with approved procedures and techniques.
- Resolve any technical issues brought to their attention by NDT Level 2 and NDT Level 1 personnel.
- Bring to the attention of the Eskom NDT Level 3 those defects/indications that in their opinion are deemed to need further evaluation (possibly with a secondary technique) against acceptance criteria
- as well as all restrictions/limitations in the application of inspection procedures that cannot be overcome.
- Be personally responsible and accountable for delivery of quality NDT based on the SP's contract.
- Quality NDT refers to the delivery of quality NDT systems (NDT equipment, qualified NDT procedures and certified NDT personnel) to reliably find and report all indications/deviations/defects/anomalies required by the scope of work (SOW), including accurate reports for all the components in the SOW within 21 days of completing the work.

3.11 NDT SUPERVISOR

The NDT supervisor shall be authorised to at least Level 2 in the applicable method and shall provide advice to the NDT operator as needed. They shall be trained and have the necessary skills to act in a supervisory capacity. They shall be nominated in writing to act as a supervisor on behalf of the SP. Documentary evidence of training and appointment shall be submitted to the Eskom NDT Level 3. The NDT supervisor shall ensure that:

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- The NDT operator is suitably qualified and certified. Clear and specific instructions are provided to the operator on the task to be performed.
- The specific technique sheet is authorised.
- The technique sheet is applicable to the particular item being inspected.
- The inspection is conducted in accordance with the technique sheet. Note that this requires on-site supervision or evaluation.
- NDT data is correctly recorded as required by the technique sheet.
- All inspection anomalies, limitations and NDT indications are fully recorded and reported to the SP Level 3.
- There is direct supervision of Level 1 personnel , All recordable indications, deviations, anomalies and/or defects are reported to the responsible SP Level 3 before end of the shift.

3.12 GENERAL REQUIREMENTS FOR ALL NDT PERSONNEL NDT .

Personnel (Level 1, Level 2 and Level 3) shall:

- maintain their certification status in accordance with requirements of the NDT scheme to which they are certified [e.g., work continuity in method without significant (12 months) breaks, visual acuity and other statuses as required by code or this standard].
- be in possession of a written authorisation, supplied by their employer, authorising the individual to carry out defined NDT tasks. This includes labour hire contractors who will be authorised by the contracting NDT SP Level 3.
- ensure that work conducted on Eskom Plant does not exceed their certified status, not undertake NDT tasks for which they are not authorised

3.8.1 Non-statutory appointments

- Eskom requirement – Emergency Planning Co-coordinator
- Eskom requirement - Chairperson of Health and Safety Committee
- Eskom Site Manager
- Eskom Site Supervisor
- Risk Assessor
- Safety Officer
- Working at Heights planner

3.8.2 NDT DURING IN-SERVICE AND OUTAGE ACTIVITIES

In-service inspection in accordance with codes and standards NDT undertaken during in-service or outage activities is rarely undertaken with respect to published codes and standards. One notable exception is the in-service inspection of nuclear plant and in such cases (and similar) the principles in section 9.1 shall be followed.

NDT DURING CONSTRUCTION ACTIVITIES-9.1

- a) All NDT undertaken during construction activities shall be subject to an agreed construction code and acceptance standard.
- b) All NDT shall be undertaken in accordance with written and authorised NDT procedures which comply with the requirements of the construction code. Authorised item specific technique sheets shall be developed from such procedures.
- c) All NDT results shall be compared to an agreed Acceptance Standard. Acceptance Standards such as “to be agreed at time of test” are not permissible.

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3.83 NDT DURING REPAIR AND REPLACEMENT ACTIVITIES

- a) Where NDT is undertaken during a repair or replacement activity to restore a plant item to an original construction condition, then this shall be with respect to the agreed/original construction code and acceptance standard.
- b) All NDT shall be undertaken in accordance with written and authorised NDT procedures which comply with the requirements of the construction code. Authorised item specific technique sheets shall be developed from such procedures.
- c) Where a repair or replacement activity is undertaken to restore a plant item to a condition different from that of the original construction or as part of a modification not envisaged by the original construction code, an agreed code shall be adopted and/or acceptance criteria agreed upon before any repair or replacement activities take place.

3.9 ESKOM LIFE-SAVING RULES

1. Eskom places a high value on health and safety and urges every organization that undertakes work for Eskom to do the same.
2. Eskom has developed five life-saving guidelines that will apply to all Eskom employees, agents, consultants, and contractors. Any Eskom employee or employee of a Main Contractor or appointed contractor who fails to follow these rules would be deemed a serious violation. These rules are in place to protect any employee, labour broker, or contractor working from significant injury or death.
3. If any contractual work (including delivery of any product) is to be undertaken on Eskom premises, the rules shall be obeyed by any contractor and their employees.

The rules are:

RULE	DESCRIPTION OF RULE
Rule 1	OPEN, ISOLATE, TEST, EARTH, BOND, AND/OR INSULATE BEFORE TOUCH (That is plant, any plant operating above 1000 V)
Rule 2	HOOK UP AT HEIGHTS Working at height is defined as any work performed above a stable work surface or where a person puts himself/herself in a position where he/she exposes himself/herself to a fall from or into.
Rule 3	BUCKLE UP No person may drive any vehicle on Eskom business and/or on Eskom premises: Unless the driver and all passengers are wearing seat belts.
Rule 4	BE SOBER No person is allowed to be under the influence of intoxicating liquor or drugs while on duty
Rule 5	PERMIT TO WORK Where an authorisation limitation exists, no person shall work without the required permit to work.

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Eskom will take a zero-tolerance approach to these policies.

Noncompliance to Life-saving rules is regarded serious misconduct and will result in serious disciplinary action, which may include dismissal.

This is to ensure that everyone who works on or visits an Eskom facility returns home to their families safely.

3.10 SUBSTANCE ABUSE

1. Alcohol and substance abuse are serious threats to any business, especially when it comes to workplace accidents and car driving. As a result, Eskom has the right to take reasonable procedures to identify and prohibit drunk people from entering the company.
2. General Safety Regulation 2A specifies the legal position on intoxication.
3. The allowable alcohol and drug level is 0%.
4. All contractors must follow Eskom's procedure 32-37 ("Substance Abuse Procedure"), taking into account that this is an Eskom Life-saving Rule number 4: (BE SOBER"), and anyone entering the Eskom site will be subjected to ad hoc alcohol testing if the BU has self-alcohol testing equipment.
5. Contractors are invited to develop their own manual and test their own employees for alcohol on a regular basis.
6. Test results must be marked "Confidential" and kept in the employee's personal file.
7. Eskom's life-saving rules must be included in the induction process.

3.11 CONTRACTOR ORGANISATIONAL STRUCTURE

3.11.1 Main Contractor Organogram

The main contractor must provide an organisational organogram on the company's letter head related to this contract, depicting all the levels of responsibility from the CE down to the supervisors responsible for the contract. List the relevant positions held, names of appointees, legal appointments and organogram must be signed off by the company's 16.1 or 16.2.

The main contractor must ensure that all appointed contractors comply with this requirement. The main contractor is responsible for keeping copies of all the organograms' as well as submitting them with the OHS Plan. All organograms shall be updated timeously when appointments are changed.

This diagram must be kept up to date and filed in the project OHS files.

3.11.2 Appointed Contractor/s Organogram

1. Appointed contractors are required to compile their company organogram for the project on the company's letter head, listing the reporting structure from their CE down to their project supervisors. The diagram must list the names, positions held, any appointments made and must be signed off by the company's 16.1 or 16.2.
2. This diagram must be kept up to date, a copy of which must be given to the main contractor and a copy filed in the relevant project OHS files.
3. This diagram must be kept up to date and filed in the project OHS files.

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3.12 ROLES AND RESPONSIBILITIES

Commitment

Visible commitment is essential to providing a safe work environment. Managers, supervisors and employees at all levels must demonstrate their commitment by being proactively involved in the day to day operations, in particular the Occupational Health and Safety aspects of any project / contract. Legislation requires that each employee must take reasonable care of themselves and their fellow workers, from management level down to the lowest employee level.

Note 1: Most of the roles and responsibilities listed apply to both main contractors and any appointed contractors. Where some of the listed do not apply to both, then the specific responsibilities will be listed and titled. The contractors shall:

3.12.1 Main contractors and appointed contractors

1. Carry out all duties as listed in section 8, 9 and 10, the various other regulations that form part of the OHS Act and Regulation 7 of the Construction Regulations.
2. Carry accountability and responsibility for the safety and health of their employees and their appointed contractors within their working area, as contemplated by section 37(2) of the OHS Act;
3. Shall keep a record of all employees including the appointed contractor employees, including date of induction, relevant skills and licenses and be able to produce this list at the request of the Eskom Project Manager.
4. Ensure that all their appointees are made aware of their accountabilities and responsibilities in terms of their appointment and that they advise and assist these appointees in the execution of their duties.
5. Ensure that the minimum legislative, regulatory and Eskom SHE requirements are complied with on all work sites.
6. Give the Eskom project managers and line managers / responsible managers their full participation and cooperation.
7. Compile a SHE (health and safety) file where all relevant health and safety records must be kept for each work site.
8. The main contractor must provide the project manager with the Compensation Commissioner's valid letter of good standing before the commencement of work and any future renewal letters obtained during the contract for record-keeping purposes. The letter of good standing shall reflect the name of the contractor's company. Similarly, the main contractor must provide the Eskom project manager with all the valid letters of good standing from their appointed contractors.
9. Contractors must provide the main contractor with the Compensation Commissioner's valid letter of good standing before the commencement of work and any future renewal letters obtained during the contract for record-keeping purposes. The letter of good standing shall reflect the name of the contractor's company.
10. Appoint competent staff to perform the project work and ensure that all employees are trained in the health and safety aspects relating to such work and that the employees understand the hazards associated with all other work being carried out on the project.
11. Ensure that all employees are conversant with all relevant work procedures and that they adhere to such procedures. Similarly (without removing the appointed contractors' responsibilities), ensure that their appointed contractors and their employees are conversant with all relevant work procedures and that they adhere to such procedures.
12. Co-ordinate the activities of all the appointed contractors in the interests of safety and health;
13. Ensure that their contractors (whom they intend appointing) have made detailed provision for the cost of safety and health measures throughout the project.
14. Stop his /her employees and any appointed contractors if such work poses a threat to the health and safety of persons or a risk of degradation to the environment.

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15. Take reasonable steps to ensure cooperation between all their appointed contractors.
16. Ensure that Eskom OHS requirements are communicated to the appointed contractors, evaluate, and assess the appointed contractors OHS files. Only appoint contractors who are competent to do work, have satisfied the OHS compliance requirements and satisfied that the contractor has the necessary competencies and resources to perform the work safely
17. Appoint full-time competent employees in writing to supervise the performance of all specified work throughout the contract period.
18. Ensure that the supervisor or manager do not supervise work on any site other than the site for which such supervisor has been appointed for.
19. Not victimise or dismiss employees, by virtue of the employees divulging health and safety information or suspecting such information has been divulged, in the interests of health and safety requirements;
20. Follow a process of disciplinary action if any of their employees or their appointed contractor employees have transgressed any of the requirements of the health and safety specification, safety and health plans, site rules or any other requirements.
21. Before the commencement of work, review the submitted baseline risk assessments to include site or emerging risks. This should be done by a competent person appointed in writing with a view to identify hazardous and potentially hazardous work operations.
22. Ensure that pre-task risk assessments are conducted and documented daily and prior to the starting of any new task, irrespective of whether it is a repetitive task or not.
23. Must ensure that an organisation medical surveillance programme for the duration of the contract is in place and maintained.
24. Prior to having pre-employment and periodic medicals fitness examinations conducted, person/man job specifications must be compiled and handed to the occupational health practitioner.
25. Issue risk-based personal protective equipment (PPE) as a measure of last resort to their employees, inspect such equipment regularly and ensure recipients of PPE are trained in the proper use, care and where necessary, the maintenance of PPE;
Note: should the main contractor or his/her appointed contractors entertain visitors on site, they will be held responsible for the provision and wearing PPE.
26. Must have a substance abuse program which must be in line with Eskom requirements.
27. Ensure that all incidents are reported and investigated timeously by competent incident investigators and aligned with 32-95 requirements.
28. Be involved in all of their appointed contractor's incident investigations.
29. When appointing contractors, advise the project manager in writing timeously and obtain his/her approval prior to them commencing work.

3.12.2 Contractor site supervisor

The contractor site supervisor must be trained in the following:

- HIRA, Incident investigation training, Supervisor training, authorised person & Legal liability

Must:

1. Be competent to perform the required supervisory tasks;
2. Ensure their employees and all appointed contractors comply with the required statutory and Eskom project requirements;
3. Inspect all work done by the Contractors to ensure adherence to Eskom's standards and specifications
4. Conduct follow-up inspections to ensure findings are closed out and preventative action is in place.
5. Monitor contractors for adhere to statutory requirements and safety standards.
6. Monitor contractors overall SHE performance on site in order to achieve excellent results
7. Discuss all SHE related problems with the relevant contractor management timeously in the first instance and thereafter the Eskom project manager in the second instance relating to

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procedure requirements, non-conformance's identified, corrective actions, audits and inspection schedules.

8. Continual liaison between the main contractor, appointed contractors and employees.
9. Ensures that employees and appointed contractors are aware of latest standards, procedures, work instructions and safety regulations issued by Eskom:
10. Conduct site Inspections for compliance to SHE requirements and compiles the relevant inspection reports.
11. Submit the observation reports to the relevant management.
12. Submit the required OHS reports communicated by Eskom e.g. manpower numbers, statistics report etc.
13. Have meaningful participation in the project statutory health and safety committee meetings.
14. Participate in all appointed contractor incident investigations.
15. Participate in the main contractor's emergency preparedness planning.
16. Ensure that their own employees and those of any appointed contractor are competent to perform the tasks assigned.
17. Issue site instructions on behalf of the main contractor where and when the appointed contractors deviate from safety requirements.

3.12.3 Contractor Health and Safety officer full/time

- The nature of the task is a high risk therefore the contractor must have part time safety officer be appointed on site .

The contractor health and Safety officer must be trained in the following:

- SAMTRAC, HIRA, Incident investigation training, Legal liability, Training, knowledge and understanding of ISO 4500, Minimum work experience 2yrs, OHS Diploma (applicable to 3-5 years contract)

3.13 RISK ASSESSMENT (REFER TO 32-520)

It is a legal requirement in terms of Section 8 (2)(d) of the OHS Act for an employer to carry out risk assessments, to establish which risks and hazards are attached to the health and safety of persons due to any work which is performed, any article or substance which is, handled, stored, transported. A risk assessment is defined as an identification of the hazards present in then activity, work, site and an estimate of the extent of the risks involved, taking into account whatever precautions are already being taken.

It is essentially a three stage process:

- identification of all hazards;
- evaluation of the risks;
- Measures to control the risks.

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Risk assessments are required to be maintained. This means that significant changes to a process or activity, or any new process or activity should be subjected to a risk assessment and that if new hazards come to light during the work process, then these should also be subjected to risk assessments. Risk assessments for long term processes should be periodically reviewed and updated. Method statements or written safe work procedures are an effective method as information and record of the way jobs / tasks must be performed. Daily or issue based or task specific or on the job risk assessments must be conducted at the place where work is to be performed/ conducted to allow managers and employees to assess any inherent risks that could have been overlooked during the initial risk assessment or any changes that might have occurred in a period of absence. For example if a job / task is extended over a day or halted due to inclement weather.

Guidelines for actual steps involved in a job/task specific risk assessment are:

- Each activity is listed;
- Specific hazards are identified and listed against each activity;
- The magnitude of each risk is rated as Low, Medium or High;
- All known documentary and supervisory controls are listed, for instance: What safe work procedures exist for ladders.
- The relevance, effectiveness and sufficiency of these controls are assessed;
- In the event of insufficient or deficient controls for the particular activity, steps to be taken to rectify this shall be recorded, and safe working procedures drawn up;
- Persons responsible for implementing and supervising the task shall be identified, nominated and duly assigned;
- Persons responsible for monitoring the task and carrying out the planned job observation must be nominated;
- Completed risk assessment shall be handed to the Eskom project manager representative for comment and approval.
- The relevant section of the risk assessment shall be issued with a Transmittal Note to the Supervisor nominated as the responsible person; and the names of workmen who have received instruction on the work content and the sequence of the activities listed in the risk assessment shall be recorded, and their competence established. This instruction shall be done through an interpreter if required and recorded on the Pre-Job Brief (Daily Safe Task Instructions), with reference to applicable Risk Assessments.

3.14 SAFE WORK PROCEDURES / METHOD STATEMENTS

There must be written safe work procedures for all activities, the safe work procedures must be aligned with the risk assessments. All contractor employees must be trained on Safe work procedures and the proof must be kept on the OHS files. The job observation on the safe work procedures must be conducted regularly by the competent Supervisor to monitor adherence and compliance.

Method statements / written safe work procedure are control measures used to prevent an incident from occurring during the execution of the project. A written safe work procedure/ method statements provide guidance how to execute the task safely. A safe working procedure should be written when:-

- a. Designing a new job or task;
- b. Changing a job or task;
- c. Introducing new equipment or substances; and

The safe working procedure should identify:

- d. The supervisor for the task or job and the employees who will undertake the task;
- e. The tasks that are to be undertaken that pose risks;
- f. The equipment and substances that are used in these tasks;

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- g. The control measures that have been built into these tasks;
- h. Any training or qualification needed to undertake the task;
- i. The personal protective equipment to be worn;
- J. Actions to be undertaken to address safety issues that may arise while undertaking the task.

3.15 ROOF WORK (REFER TO 32- 418)

Where roof work is to be performed, a risk assessment must be carried out prior to climbing on to the roof to determine the hazards i.e. stability, suitability and strength etc. The consequences of climbing and control measures that are required to be implemented should form part of the risk assessment and the fall protection plan. Should the weather change, the wind velocity must be measured before continuing with roof work.

3.17.1 Refuelling at Eskom sites

Before a machine/vehicle can be refuelled, the motor must be stopped. Refuelling shall take place at designated safe areas and appropriate warning signs installed. Suitable drip trays must be used to prevent spillage at the filling nozzle.

3.18 FIRST AID AND EQUIPMENT

1. The requirements of the OHS Act GSR 3 must be observed.
2. First aid appointments must be made to meet the legal requirements. Appointees must be trained to level 2 and the training service provider must be registered in accordance with section 26(1) of the Skills Development Amendment Act, Act No. 37 of 2008. It is good practice for all employees to be trained to at least level 1.
3. When appointing employees for work sites, cognisance must be taken into account the type of work performed, the distance teams are working apart and the terrain to be covered if an emergency should arise.
4. A list of emergency numbers must be displayed on the notice boards and made accessible for all employees.
5. Main Contractor must ensure that his /her employees and appointed contractor employees are familiar with the emergency numbers.
6. Contractors shall have first aid box as per the risk assessment or at least one for the first 5 persons and thereafter one for every 50 or team of workers on site or part thereof, taking into account the type of work performed and the distance between teams.
7. More first aid boxes shall be provided in accordance with the risk assessment. Boxes must be available and accessible for the immediate treatment of injured persons at the workplace.
8. For offices, signs indicating where the first aid box or boxes are kept as well as the name and contact details of the First Aider of such first aid box or boxes shall be erected.
9. The first aid box must be sealed or controlled, be inspected monthly and the treatment register be kept in the box.
10. During the inspection, the sampled first aid boxes' seal must be broken to inspect the content of the first aid box.
11. The Main Contractor and appointed contractor shall ensure that alternative arrangements be made for incidents occurring after working hours.

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3.18.1 First Aid Boxes and equipment

The following is a list of minimum contents of a first aid box:

- Item 1: Wound cleaner/antiseptic (100ml).
- Item 2: Swabs for cleaning wounds.
- Item 3: Cotton wool for padding (100 g).
- Item 4: Sterile gauze (minimum quantity 10).
- Item 5: 1 Pair of forceps (for splinters).
- Item 6: 1 Pair of scissors (minimum size 100 mm).
- Item 7: 1 Set of safety pins.
- Item 8: 4 Triangular bandages.
- Item 9: 4 Roller bandages (75 mm X 5 m).
- Item 10: 4 Roller bandages (100 mm X 5 m).
- Item 11: 1 Roll of elastic adhesive (25 mm X 3 m).
- Item 12: 1 Non-allergenic adhesive strip (25 mm X 3 m).
- Item 13: 1 Packet of adhesive dressing strips (minimum quantity, 10 assorted sizes).
- Item 14: 4 First aid dressings (75 mm X 100 mm).
- Item 15: 4 First aid dressings (150 mm x 200 mm).
- Item 16: 2 Straight splints.
- Item 17: 2 Pairs large and 2 pairs medium disposable latex gloves.
- Item 18: 2 CPR mouth pieces or similar devices.

A content check list must be available with all First boxes and contents shall be checked on a monthly basis, kept clean and dust free.

3.19 SHE COMMUNICATION SYSTEMS

1. Main Contractor/s and their appointed contractors must develop a communication strategy outlining how they intend to communicate OHS issues to their staff, the mediums they will employ and how they will measure the effectiveness of their SHE communication. Below is a brief on how communication should take place. Where project meetings are conducted on site, SHE shall be included as a standing agenda point and minutes of these meetings shall be available on site at all times. Minutes of meeting must be compiled and filed in the relevant OHS files. All employees shall have access to these minutes. Attendance register shall be kept for all the health and safety meetings.
1. The chairperson of the health and safety committees shall be selected and appointed by the contractor. The appointed chairperson must be competent to chair meetings and be able to make informed decisions.

3.19.2 Non-statutory health and safety committees

1. Where there are large worksites, then non-statutory sub-committee must be established within that worksite to assist with the communication of health and safety related matters between the statutory health and safety committee and the workplace.
2. The duties and responsibilities of the non- statutory health and safety committees will be the same as the statutory safety committee

3.19.2.1 Agenda

1. The following serves as the guideline for the SHE Committee meeting agenda.
 - List of agenda items:
 - Matters arising from previous minutes
 - Matters arising from Contractor's SHE meetings.

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- Covid-19 Compliance
- Audit results and feedback
- Review Health and Safety Representative Inspection Reports
- Review
 - Incident investigation reports
 - Non-Conformances
 - Announcements (near miss/injury/damage)
 - Follow up on recommendations made by the employer in incident investigation reports
- Accident Prevention – Safety Promotion
 - Planned Job Observations
 - OHS training
 - Protective clothing and equipment
 - Incident Announcements / Recall
- Forthcoming High hazard activities.
- Non-conformances.
- Housekeeping.
- Work permits.
- Work procedures.
- Hazardous materials / substances.
- Fire Prevention
- Occupational Hygiene Assessments, Health Risks and Actions
- Security
- Vehicles, mobile equipment's and yellow plant
- Rules, Instructions
- Public Safety
- Environmental Management
- Emergency Preparedness
- Statistics report
- Closure

3.19.2.2 Minutes and action items for all health and safety committee meetings

1. Minutes and record of action items shall be kept of all health and safety committee meetings.
2. Action column with target dates and responsible person shall be clearly visible on the minutes and shall be completed during the meeting.
3. Statutory health and safety committee meeting minutes and record of action items shall be kept for the duration of the project or a minimum period of three years.
4. Non-statutory health and safety committee meeting minutes shall be kept for the duration of the project or a minimum period of 12 months.
5. All other meeting minutes where SHE is on the agenda, shall be kept for a minimum period of 12 months.
6. The original copy of the minutes and record of the action items must be signed by the chairperson.

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7. The relevant project manager and main contractor shall endorse the relevant minutes with his/her recommendations and return the minutes to the relevant contractors chairperson within 14 calendar days of the meeting.

3.20 TOOL BOX TALKS / DAILY TEAM TALKS / PRE JOB MEETINGS

1. A meeting must be held prior to the commencement of the day's work with all relevant personnel associated with the work task in attendance. The job, relevant procedures, associated hazards, safety measures, i.e. the task risk assessments shall be discussed. Each employee who attends the briefing shall sign an attendance list of that pre-job brief form undertaking that they have an understanding of the tasks, risks and control measures required.
2. Where possible, tool box talks can be included in the pre-job brief meetings. If this does not occur, then weekly tool box talks must be conducted. The toolbox talk topics will be based on OHS issues pertaining to the works site and or the project. The topic and contents shall be in writing. Attendance registers with the topic listed shall be kept.

3.21 OHS TRAINING

1. The main contractor, when making a bid for this project shall provide a breakdown list of the OHS training requirements and the costing of such requirements. Similarly, appointed contractor must provide the same requirements when bidding with the main contractor.
2. The scope of training includes but is not limited to the type of work being performed and the relevant procedures. Additional to the requirements, will be that the main contractor and appointed contractors must have the appropriate qualifications, certificates and employees should always be under competent supervision.
3. Where legislative and Eskom recommended appointments are made, the relevant training shall be given to those appointees prior to the acceptance of those appointments.
4. When there is an amendment to the Acts and/or to the regulations, OHS specification and OHS Plan, all affected staff shall undergo the applicable refresher training.
5. Appropriate time must be set aside for training (induction and other) of all employees.
6. Records of all training and qualifications of all contractor employees must be kept on the OHS file.

3.21.1 Main Contractor Induction training

The contractor is required to make arrangements with the Business Unit for its employees to attend induction in order to be granted permission to access site.

1. The main contractor shall ensure that all his / her employees, appointed contractors and their employees have undergone the Eskom Safety Contractor Management induction training prior to commencing work on site.
2. Attendance registers must be completed of any induction training given, which must indicate that they have received and understood the induction training.
3. Prior to attending the induction training, all employees must undergo a pre-employment medical examination and found fit for duty. A copy of the certificate of fitness must be kept in the OHS file on site for the duration of the project.
4. All contractor employees and visitors on site shall carry the proof of induction training whilst on site.

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3.21.2 Appointed Contractor Work specific induction training

The main contractor shall ensure that all his / her employees and appointed contractor employees undergo site specific work induction. The induction training should take into account the approved project OHS Plan, general hazards prevalent on the works site, risk assessment, rules and regulations, and other related aspects. The induction training should also include identification of sensitive features such as wetlands/vlei areas, red data species, graves, etc.

3.21.3 Visitors induction

1. Visitors to the site shall be required to undergo and comply with Eskom's site-specific safety induction prior to being allowed access to site.
2. For major outage Eskom may require the main contractor to induct their employees and visitors prior to attending Eskom's induction.
3. All visitors must remain in the care and custody of a person (host) who has been properly inducted. ***No visitors are permitted to undertake any work onsite, of any nature.***
4. Visitors who have completed site induction must sign the attendance register

3.22 GENERAL TRAINING

The main contractor will be required to ensure that before an employee commences work on the project, the respective supervisor informs the employee of his scope of authority, the hazards associated with work as well as the control measures to be taken. This will include man-job specifications, the discussion of any task procedures or hazardous operational procedures to be performed by the employee. The Main Contractor is to ensure that the supervisor has satisfied himself that the employee understands the hazards associated with the work to be performed by conducting task/job observations.

3.23 CONTRACTOR SITE ESTABLISHMENT

Where contractors are providing their own facilities, the following shall apply:

1. Prior to establishing a project site, a site plan is required to be drawn and submitted to the project manager, listing position of all buildings, amenities, storage, stacking areas and temporary electrical installations. The appropriate colour coding and demarcation of storage and stacking areas must be carried out.
2. When compiling the site plan, cognisance must be taken to the establishment of the site camp, ablution facilities and dining area in relation to one another and away from stacking and storage areas.
3. Main contractor's site facilities should be managed and kept hygienically clean at all times.
4. Where the materials are stored at the work sites, proper stacking and storage shall be carried out and maintained in good order at all times.

Where Eskom is making provision of the facilities to the contractor, the following shall apply:

1. Prior to handing over the site to the contractor, the client (project managers/end users) shall together with the contractor management conduct inspections, draft and sign the service level agreement.
2. Main contractors shall manage and keep the allocated Eskom facility hygienically clean at all times.
3. It is the responsibility of the contractor to maintain and keep the facility in a good condition.

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4. It is the contractor's responsibility to immediately report to the Eskom contract manager/project manager the defects incurred.
5. Eskom reserves the right to conduct unannounced site inspections.

3.24 SITE ROADS

1. When planning, sufficient areas must be allocated for parking of vehicles and mobile equipment's as well as roadways for ease of manoeuvrability of these vehicles.
2. Sufficient width roads to be provided and adequate space is to be allowed for large vehicles traversing the sites.

3.25 VEHICLE MANAGEMENT

1. It is the responsibility of the driver to ensure:
 - a. Their passengers wear seat belts whilst the vehicle is in motion.
 - b. Comply with all traffic road rules, safety, direction and speed signs.
 - c. Ensure that vehicle loads are properly secured prior to moving off.
 - d. Ensure that vehicles are not overloaded.
2. No persons maybe transported at the back of the bakkie.
3. Drivers are required to conduct the route risk assessment prior to travelling/driving.
4. No drivers or operators may text, talk on cell phones or two-way radios whilst driving, unless a hands-free kit is used.
5. All drivers of vehicles are to have valid medical fitness certificates.
6. Each Project site that is enclosed by demarcation will have system/ process to manage vehicle access to site.
7. Contractor must maintain their vehicles in a roadworthy condition and a vehicle license must be valid at all times.
8. Drivers of light vehicles must avoid stopping or parking in the vicinity of machines. At least 30 (thirty) meters must be left clear between such a vehicle and such a machine
9. Contractor vehicles can be subject to inspections by the Client/Agent's representative. Vehicles which are not roadworthy will not be permitted to be used on the project.
10. Drivers/operators shall be responsible for the travel-worthiness of all loads conveyed by them. Precautions shall be taken to secure all loads properly. Loads projecting from vehicles shall be securely loaded and in daytime a red flag and during darkness a red light or red reflective material shall be attached to the extreme end of such projecting material.

3.26 HOUSEKEEPING AND ORDER

1. All contractors shall maintain a high standard of housekeeping within their sites and vehicles for the duration of the work/project.
2. Prompt disposal of waste materials, scrap and rubbish is essential.
3. Materials/objects shall not be left unsecured in elevated areas –falling objects may cause serious injuries/fatalities.
4. Nails protruding through timber shall be bent over or removed so as not to cause injury.
5. All packaging material including boxes, pallets, crates, etc. to be removed from the work area immediately.

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6. On completion of his / her work, the contractor is responsible for clearing his / her work area of all materials, scrap, temporary buildings and building bases to the satisfaction of the client/agent.
7. In cases where an inadequate standard of housekeeping has developed, compromising safety and cleanliness, anyone has the responsibility to bring it to the attention of the main contractor in the first instance and the Eskom project/site manager in the second instance.
8. The Eskom Project/Site Manager has the right to instruct the main contractor and appointed contractors to cease work until the area has been tidied up and made safe. Neither additional costs nor extension of time to the contract shall be allowed as a result of such a stoppage. Failure to comply with this requirement will result into site cleaning by another cleaning contractor company at the cost of the main contractor.
9. The main contractor shall carry out regular safety/housekeeping inspections daily to ensure maintenance of satisfactory standards. The main contractor shall document the results of each inspection and if applicable shall maintain records for viewing.

3.27 STACKING AND STORAGE

1. Before stacking any material, the contractors or their employees must consult the contract manager for authorisation to use such an area for stacking purposes. This is to prevent haphazard arrangements.
2. Adequate care must be taken by the contractor to ensure that storage and stacking is carried out correctly and safely as per GSR 8 and other applicable legislation.
3. The proof of competence must be provided for the appointed stacking and storage supervisor as per GSR 8.
4. Correct shelf stacking must be carried out, heavy and bulky on the bottom, light and small on top.

3.28 WORKPLACE SIGNAGE AND COLOUR CODING

1. Symbolic safety signage shall be displayed where it is required by legislation.
2. All symbolic safety signage shall conform to the requirements of SANS standard 1186.
3. Signs shall be positioned to be seen from most positions within the work sites / areas.
4. All signage must be clear at all times and be replaced timeously when worn out.
5. Contractors establishing sites must erect a company sign at their site offices to reflect the name and contact details of the: Contractor Supervisor; Health and Safety Manager/Practitioner; First Aider; Health and Safety Representative and Evacuation warden.
6. The location of every first aid box; fire extinguisher and emergency exit is to be clearly indicated by means of a sign.
7. When using, an explosive power tool the appropriate signage shall be erected, warning people of its use.
8. Contractors shall provide signage where work is conducted and where unauthorised entry is prohibited and/or where alerting and cautioning passers-by to be aware of potential dangers.
9. The meanings of the appropriate symbolic signage must be discussed during induction training and toolbox talks.
10. Where possible, within workshops, work areas and established premises, the appropriate sign indicating the meaning of symbolic safety signs must be displayed.

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3.29 TOOLS AND EQUIPMENT

1. Contractors shall ensure that all tools and equipment are identified, safe to be used and is maintained in a good condition.
2. Contractors shall ensure that all tools and equipment are listed on an inventory list, be regularly inspected at least monthly or as required by legislation and risk assessments. The equipment should be numbered or tagged so that it can be properly monitored and inspected.
3. Where applicable, tools and equipment must have the necessary approved test or calibration documentation prior to being brought onto the project and the records shall form part of the OHS Plan. Maintenance calibration shall be undertaken in terms of the manufacturer's requirements.
4. All fuel driven equipment must be properly maintained in accordance with the manufacturer's recommendations and legal requirements.
5. Eskom reserves the right to inspect tools or items of equipment brought to site by contractors for use on this project.
6. Should Eskom personnel find any item that is inadequate, faulty, unsafe or in any other way unsuitable for the safe and satisfactory execution of the work for which it is intended, the Eskom personnel shall advise the contractor in writing and the contractor shall forthwith remove the item from site and replace it with a safe and adequate substitute.

Note: In such cases, the contractor shall not be entitled to extra payments or extensions of time in respect of delay caused by Eskom's instructions.

7. Where defective tools and equipment's are identified, such tools and equipment shall be removed out of site immediately or locked away with the **unsafe use signage displayed** to prevent further use until such time as the tool or piece of equipment has been repaired.
8. Contractors shall ensure that the appropriate records are kept for all tools and equipment used on the project. Such tools and equipment's shall be subjected to regular inspections.

3.29.1 Hand tools

1. All hand tools (hammers, chisels, spanners, etc.) must be recorded on a register and inspected by the supervisor on a monthly basis as well as by users prior to use.
2. Under no circumstance will the contractors be allowed to use their equipment's with mushroom heads, to be removed at the end or beginning of shift prior to use.
3. Tools with sharp points in toolboxes must be protected with a cover.
4. All files and similar tools must be fitted with handles.
5. No makeshift tools are permissible on site/project.

3.30 LADDERS

1. Ladders used shall conform to the requirements of GSR 13A and used in terms of GSR 6.
2. The appropriate head protection, with chin strap shall be worn by employees working from a ladder or with climbing irons.
3. The ladder wheels, brakes and platform must be in good condition.
4. All metal parts to be in good condition, no cracks.
5. Two-man rule must always be applied when the Ladder is being used i.e. when one is climbing ladder the other person should hold the ladder at the bottom for stability.
6. Non-slip devices must be in good condition and no paint to be on wooden ladders

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7. Climbing irons are permitted to be used in place of ladders on condition that the requirements of GSR 6 are not compromised and from an electrical point of view not damage any cabling. The working at heights risk assessment must indicate the use of climbing irons.
8. Employees using climbing irons shall be suitably trained in the use, care and maintenance of such climbing irons.
9. When using climbing irons, the appropriate rope grab fall prevention system shall be used.
10. The correct fall protection equipment shall be worn and used whilst climbing up, working from and climbing down ladders.
11. The appropriate head protection, with chin strap shall be worn by employees working from a ladder (risk based) or with climbing irons.
12. A detailed inspection of all ladders shall be conducted monthly by a competent person and every time prior to climbing by employees using such ladders. The inspection check lists must be filed in the site OHS files

3.32 AUDITING

3.32.1 Approval and compliance of main contractor OHS Plan

The Contractor's OHS Plan will be audited against compliance checklist so as to verify compliance to the requirements of the Eskom OHS specifications. Once there is compliance only then will the main contractors OHS Plan be approved by the project manager or an appointed Eskom contract custodian. The implementation of the OHS Plan shall be assessed / audited by Eskom personnel on a regular basis. This will include physical conditions evaluation.

3.32.2 Eskom OHS audits

Eskom shall evaluate all contractors' OHS performance on an ongoing basis against the legal, Eskom requirements, OHS specification and the contractors OHS Plans.

Note: Eskom reserves the right to conduct unannounced audits on contractors

There will be monthly audits conducted by Eskom on the main contractor/s and/or appointed contractors. These audits shall be attended by the contractor's site manager or his representative.

If there are any findings / non-compliance identified as serious in these audits, an activity will be stopped for that specific Main Contractor and appointed contractor. Refer to section on "Work Stoppage" in this OHS specification.

3.32.3 CONTRACTOR AUDITS

Main Contractors are required to conduct internal audits on both their employees and their appointed contractors on the implementation of their OHS Plan on a monthly basis or when the scope of work changes. A summary of the findings and the proposed corrective actions shall be submitted to Eskom project manager within one week after completion of the audit. Where appointed contractors are audited by the main contractor a copy of the audit report shall be submitted to the appointed contractor within 7 days of the audit.

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3.33 SMOKING

The national smoking policy must be observed, and smoking is permitted in designated areas only (Eskom Smoking Procedure 32-36).

3.34 CELLULAR PHONES

The National Road Traffic Act requirements regarding the use of cellular phones must be observed, when driving and or operating mobile equipment and or machinery. The personal use of cell phones in the plant is prohibited unless it is an emergency or for work purpose. The use of cell phone camera in the plant must be in line with the national key point Act and the [Plant safety regulation](#).

3.35 OCCUPATIONAL HEALTH, HYGIENE AND REHABILITATION

All contractors are required to develop an Occupational Health, Hygiene and Rehabilitation program. The program is intended to ensure that the risks to health are identified and controlled.

3.35.1 Medical Assessments

Note: Eskom will only accept medical surveillances conducted by an Occupational Health Practitioner who holds a qualification in occupational health.

1. Main contractors must ensure that their employees and their appointed contractor employees have a medical surveillance program whereby their employees under go entry, periodic and exit medical fitness examinations.
2. The health risk assessment must be used to compile the man job specification and address the hazards that the employees will be exposed to.
3. For the appropriate medical examinations to be conducted, each employee must have a man job specification, which must indicate the description of work, list of hazards and potential occupational exposure limits, physical hazards and required physical attributes.
4. Medical fitness certificates shall be renewed annually for employees who are working on site. This shall be maintained until completion of the contract.
5. The Main Contractor must ensure that his / her employees and appointed contractor employees have undergone pre-entry medical examination before starting work on the contract.
6. The main contractor shall provide a documented process for managing those employees who are issued with a conditional certificate of fitness.
7. The contractor shall include in the OHS files the record of the employees exit medical fitness certificates as and when their employees leave the company.

3.36 ROLES AND RESPONSIBILITIES

All contractors are required to list employee's roles and responsibilities pertaining to the contract.

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3.37 WORKING AT HEIGHTS

3.37.1 General Requirements

Wherever reasonably practicable, preference is given to the performance of work at ground level as opposed to the elevated position. Where work in an elevated position is necessary, preference is given to fall prevention measures such as, but not limited to, effective barricading and the use of work platforms. Persons may only work from a fall risk position if a site-specific fall protection plan is in place and correctly implemented and consists of the following:

1. All appointments for the competent fall protection plan developer and implementer are in place.
2. Baseline risk assessment, which is specific and incorporates the working at height risk assessment, as well as the site-specific risk assessment, has been completed for the work to be conducted.
3. Safe working procedure/task analysis and work instructions, approved by a competent person, are in place.
4. A fall rescue plan, along with necessary equipment and trained rescuers, is in place.
5. Appropriate training, as determined by the risk assessment, has been provided.
6. Appropriate height safety equipment and personal protective equipment have been issued to the individual.
7. There are equipment inspection procedures and up-to-date inspection records.
8. Individuals are medically fit to work at height, and records of this are kept.
9. A site-specific risk assessment is performed.

While work is in progress, adequate warning signs and/or barricades shall be used in all areas where there is a risk of persons being injured by materials or equipment falling from the work area. Barricades should be continuous and easily visible.

A drop zone shall be established with appropriate warning signs and barricading, warning personnel below of workers above and potential falling objects.

Every employer shall ensure that work at height is:

1. properly planned;
2. appropriately supervised; and
3. carried out in a manner that is, as far as is reasonably practicable, safe and that its planning includes the selection of work equipment.

3.38 PERSONAL PROTECTIVE EQUIPMENT REQUIREMENTS

1. The Main contractor must provide a detailed programme that includes the issuing, maintenance and replacement of PPE for all his employees and appointed contractors on site.
2. All contractors shall comply with the requirements of GSR 2 of the OHS Act and Eskom PPE Specification Standard 240-44175132.
3. The risk based PPE matrix must be compiled detailing the types of PPE that is required to be issued to employees performing the respective tasks.

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4. If there are exceptional circumstances in which certain activities necessitate the use of additional PPE, a risk assessment must be done, in which such PPE requirements will be determined and issued
5. All contractors shall ensure that their visitors wear and use the correct PPE whilst on worksites.
6. Where PPE is required and visitors are not in possession of, then it is the individual contractor's responsibility to provide the PPE.
7. All PPE purchased and used by all contractor employees including visitors must comply with the relevant SANS standards.
8. Where deemed as a requirement (as per risk assessment), then high visibility vests shall be worn.
9. Monthly inspection records of PPE must be kept in the Safety file
10. The contractor shall provide training to his/her employees on the correct use, care and maintenance of PPE and keep the record

3.39 INCIDENT REPORTING AND INVESTIGATION

All incidents shall be reported and investigated as per OHS Act sec 24 & 25 and General Administrative Regulations, section 8, 9, and Eskom Procedure 32-95 OHS incident management. Where injuries as contemplated in sections 24 and 25 have been sustained, be reported to the Department of Employment and Labour.

Contractors shall use the standard General Administrative Regulation Annexure 1 "Recording of an Incident form" for applicable incident investigation. The objective of incident investigation, should not only be a legal requirement, but should establish why and how the incident occurred and find out the real root cause of the incident and to decide on precautionary measures that are required to address the root cause to prevent any further recurrences of the same or similar incidents.

3.40 EMERGENCY MANAGEMENT

The art of emergency preparedness and response is to minimise the effects of any emergency and to restore normal activities as soon as possible. The contractor must develop and align their own Emergency response plan with Eskom's, to address any emergency which might arise at any given point in time. The contractor to familiarise themselves with the Eskom emergency response plan and procedure. Periodic emergency drills must be undertaken to test the effectiveness of their plan. This must be recorded and provided on request.

3.41 NON CONFORMANCE AND COMPLIANCE

1. Any non-compliance to any health and safety requirement in this OHS specification is subject to discipline in terms of the Eskom Procurement and Supply Chain Management Procedure.
2. Main contractors are required to implement a non-conformance procedure (if not already in place) for issuing to contractors for transgressions. The procedure can include "quality" related non-conformance issues. Similarly, appointed contractors must implement a non-conformance procedure.
3. The procedure for the issuing and closing off of non-conformance reports shall be strictly adhered to.
4. Contractor project management must monitor the close out of non-conformances issued, in not doing so; any recommendations made may not be implemented.

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5. Where non-conformances are issued by Eskom then one of the close-out steps of the procedure will be for the offender to be called by the responsible project manager to explain the non-conformance issued and what plan is in place to prevent a recurrence of the non-conformance.
6. Should the contractor fail to provide adequate PPE (as per PPE standards) to their employees for the tasks being performed and/or to visitors; failure to enforce the wearing of such PPE will be viewed as a transgression of the legislative and Eskom requirements.

3.42 OHS FILES

1. OHS file means a documents or record in permanent form, containing the information about the safety and health management system from inception, execution to completion of works.
2. All contractors are required to keep the OHS file on every project site. If there is more than one site per project, a file per site shall be kept at that site. Contractors may keep additional files at their head office as additional records. The OHS file shall be maintained by all the contractors on their project sites and shall be available on request for audit and inspection purposes.
3. The OHS file shall consist of the OHS documentation/information in line with the OHS requirements/specification, legal and other requirements.
4. The sequence of filing the documentation must be kept in the same sequence as listed in this OHS specification and the OHS Plan.
5. Each record shall be separated by partitions to afford easy identification and access. Each partition must be labelled.
6. On completion of the work/project, the main contractor must hand over a consolidated health and safety file to the project manager.
7. In case where the project is extended, should the documentation in the OHS files become cumbersome, the older documentation must be archived in boxes which shall be correctly labelled and be available for auditing purposes. The archived documentation must be handed over at the completion of the project.

3.43 WORK STOPPAGE

1. Any person may stop any activity where an unsafe act or unsafe condition that poses or may pose an imminent threat to the safety and health of an individual or create a risk of degradation of the environment. This includes any unauthorised work or service performed by, or legally or contractually non-compliant acts or omissions by, any contractor contracted to work at that site.
2. Work stoppages that are initiated due to SHE concerns, non-compliance, or poor performance related to the contractor's works or services shall not warrant any financial compensation claim lodged against Eskom where the contractor has not met the requirements defined legally or contractually.
3. Where stoppages are carried out, the required non-conformance report shall be raised.
4. All work stoppages ideally should be investigated and documented by contract custodians.

3.44 HOURS OF WORK

The requirements of the Basic Conditions of Employment Act, Chapter Two "Regulation of Working Time" must be adhered to. All contractors are required to maintain an accurate record of time worked by each employee.

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3.44.1 Normal work

All work conducted on site shall fall within the legal requirements in accordance with the Basic Conditions of Employment Act. Contractors will notify their Eskom Supervisor or project manager of any work that needs to be performed after hours according to the agreed arrangements. (The application needs to be submitted timeously). Where applicable, the notification should include proof of application, for overtime, to the Department of Employment and Labour and /or the letter of approval from the Department of Employment and Labour.

3.44.2 Night work

When night work is to be performed; the baseline risk assessment must be reviewed to include the management of night work. Contractors shall provide sufficient lighting to enable the entire work site to be illuminated to a degree that employees will not work in dark (un-illuminated) or dimly lit areas. Care must be exercised as not to use few lights with high light intensives as this will cause night blindness.

If work is continuing from day light into night, at dusk, a toolbox talk must be held where all employees will be advised of the hazards of night work and the extra precautions which require to be taken, i.e. poor housekeeping, stepping on uneven ground, stepping into holes etc.

3.44.3 Overtime

When overtime is required to be performed, the appointed contractors shall inform the main contractor of such action. The main contractor shall inform the Eskom project manager of such function. Contractors shall be aware of the effects of human fatigue and regulate overtime accordingly. The baseline risk assessment must be reviewed to include the management of overtime work.

3.45 OMISSIONS FROM SAFETY AND HEALTH REQUIREMENTS SPECIFICATION

By drawing up this OHS specification Eskom has endeavoured to address the most critical aspects relating to OHS issues in order to assist the contractor to adequately provide for the health and safety of employees on site.

Should Eskom not have addressed all SHEQ aspects pertaining to the work that is tendered for, the contractor needs to include it in the OHS Plan and inform Eskom of such issues when signing the contract.

3.46 CONTRACTOR PERFORMANCE MONITORING

Contractor management is required to do the following as part of the continuous improvement initiatives:

- Visible Felt leadership by top management
- Identify critical tasks and monitor by conducting Job Observations
- Contractor Chief Executive or Managing Director shall present the lost time incidents at Business Unit Power Station General Managers meeting

3.47 CONTRACT SIGN OFF

On completion of the project, all Eskom team must conduct the final audit, inspections, and housekeeping to identify defects, outstanding actions, and open incident cases, and present their findings to the contractor and Eskom contract manager, who must facilitate the closeout. Once the

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contractor has closed all findings the Eskom's team will verify and sign off prior to issuing a completion certificate and final payment.

3.48 ESKOM'S RIGHT TO TERMINATE THE CONTRACT

The contractor/supplier shall at all times comply with Eskom's occupational health and safety (OHS), legal and other requirements as amended for the duration of the contract. In addition, the contractor shall comply with the requirements contained in the SHE Specification. Eskom reserves the right to terminate the contract in the event that the contractor has built up a history of poor performance or non-conformance in relation to matters of Eskom OHS and legal compliance. No work may commence until the health and safety file has been approved by Eskom OHS personnel.

4. AUTHORIZATION

The OHS Manager & Contracts Manager to authorise, include their names

5. REVISIONS

Date	Rev.	Compiler	Remarks
May 2022	1	F Poee	This provides the initial OHS specification requirements that must be met by the relevant contractors who have been awarded a contract for the work to be performed for Eskom Generation.
August 2015	0	F Poee	This provides the initial OHS specification requirements that must be met by the relevant contractors who have been awarded a contract for the work to be performed for Eskom.
June 2022	1	Thulane Majebe	This provides the initial OHS specification requirements that must be met by the relevant contractors who have been awarded a contract for the work to be performed for Eskom.

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