	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

**Project Name:** Hydra SS MTS Smoke detection

**Project Number:**                      **Date Prepared**                      12 October 2020                      **Revision:** 0

**Project Address / Location:** -30.714612S 24.088830E

Hydra SS is 10kms from the town of De Aar, located in the Northern Cape

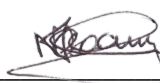
#### Scope of the project:

- Install a fire detection system in each stand-alone protection kiosk at Hydra MTS.
- Wire the system to the power distribution board and fire and air conditioner alarm panel.
- Ensure that the smoke alarm/fire alarm is marshalled to the ERTU and communicated to control.
- The smoke/fire alarm should be marshalled together with the over/temperature alarm for system reliability.

**Compiled by :**  
**Construction Health & Safety**  
**Advisor :**  
**Name:** Peter Tomlinson

  
 Date : 12-10-2020


**Reviewed by:**  
**Project Manager:**  
**Name:** Nthuseng Dlamini

  
 Date: 13/10/2020

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		


## Content

	Page
1. Introduction.....	6
2. Supporting Clauses.....	7
2.1 Scope .....	7
2.1.1 Purpose.....	7
2.1.2 Applicability .....	8
2.2 Normative/Informative References .....	8
2.2.1 Normative .....	8
2.2.2 Informative.....	9
2.3 Definitions .....	10
2.4 Abbreviations.....	14
2.5 Roles and Responsibilities .....	15
2.5.1 Commitment.....	15
2.6 Related / Supporting Documents .....	27
3. Specification .....	27
3.1 Scope of work.....	27

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

3.2	Legal Compliance.....	29
3.2.1	Section 37(2) (Legal) Agreement.....	29
3.2.2	Hazardous work by children (Child Labour) .....	29
3.3	Eskom Requirements .....	31
3.4	Construction Professional Registration.....	31
3.5	Notification of Construction Work (Permit to work required OHS Act – Construction Regulations) The Client to apply for Permit To Work .....	31
3.6	SHE Policy.....	32
3.7	COID.....	32
3.8	Costing for SHE within the Project .....	32
3.9	Statutory Appointments .....	32
3.10	Eskom Life-saving Rules.....	34
3.11	Substance Abuse .....	36
3.12	Corona Virus .....	36
3.13	Contractor organisational Structure.....	41
3.13.1	Principal Contractor Organogram.....	41
3.13.2	Appointed Contractor/s Organogram .....	41
3.14	Risk assessment (refer to 32-520) .....	41
3.15	Safe work procedures / method statements .....	45
3.16	Roof work (refer to 32- 418).....	46
3.17	Construction Sites .....	46
3.18	Fire Equipment and maintenance.....	47
3.19	Flammable and Combustible Liquids .....	47
3.19.1	Refuelling at the construction site.....	48

## Public

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No part of this document may be reproduced without the expressed consent of the copyright holder, Eskom Holdings SOC Ltd, Reg No 2002/015527/30.


	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

3.20	First Aid and Equipment.....	48
3.20.1	First Aid Boxes and equipment .....	49
3.21	SHE Communication Systems .....	49
3.21.1	Statutory Health and Safety Committees .....	50
3.21.2	Non-statutory health and safety committees .....	51
3.21.3	Agenda.....	51
3.21.4	Minutes and action items for all health and safety committee meetings .....	52
3.21.5	Tool box talks / Daily team talks / pre job meetings .....	53
3.22	SHE Training.....	53
3.22.1	Induction training.....	54
3.22.2	Site specific induction training.....	54
3.22.3	Visitors to site induction .....	55
3.22.4	General training.....	55
3.23	Contractor Site Establishment.....	55
3.23.1	Site roads and Traffic Management.....	58
3.23.2	Construction vehicle safety.....	59
3.24	Housekeeping and Order .....	61
3.24.1	Stacking and Storage / Stockpiling of Materials.....	62
3.25	Workplace Signage and Colour Coding.....	62
3.26	Tools and Equipment.....	63
3.26.1	Hand tools .....	64
3.27	Ladders .....	64
3.28	Scaffolding.....	65
3.29	Auditing .....	65

## Public

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No part of this document may be reproduced without the expressed consent of the copyright holder, Eskom Holdings SOC Ltd, Reg No 2002/015527/30.


	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

3.29.1 Approval and compliance of principal contractor SHE plan .....	65
3.29.2 Eskom SHE audits .....	66
3.29.3 Contractor audits .....	66
3.30 Smoking .....	66
3.31 Cellular Phones .....	67
3.32 Occupational Health, Hygiene and Rehabilitation .....	67
3.32.1 Medicals .....	67
3.33 Working at Heights .....	68
3.33.1 General Requirements .....	68
3.34 Risk Assessments .....	70
3.35 Structures - CR11 .....	70
3.36 Bulk Mixing Plants CR 20(1) .....	71
3.37 Cranes – CR22 .....	71
3.38 Safe Work Procedures and Practices / Safe Operating .....	71
3.39 Personal Protective Equipment Requirements .....	71
3.40 Incident Investigation .....	72
3.43 Emergency Management .....	73
3.44 Non-Conformance and Compliance .....	73
3.45 SHE File .....	74
3.46 Work Stoppage .....	74
3.47 Hours of Work .....	75
<b>3.47.1</b> Normal work .....	75
<b>3.47.2</b> Night work .....	75
<b>3.47.3</b> Overtime .....	76

## Public

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No part of this document may be reproduced without the expressed consent of the copyright holder, Eskom Holdings SOC Ltd, Reg No 2002/015527/30.

	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

3.48	Omissions from Safety and Health Requirements Specification .....	76
3.49	Contract Sign-Off.....	76
4.	Acceptance.....	76
5.	Revisions .....	77

## 1. Introduction

Eskom's responsibility and commitment is to ensure a safe working environment is in line with its Safety, Health, Environmental and Quality Policy, along with legislative obligations.

This SHE specification is Eskom's minimum requirements required to be met for this specific project during the contract period by contractors and where required, the delivery organisation.

**The contractor is expected to develop a SHE plan, which meets these requirements as well as all the relevant applicable legislation and conform to the construction site and specific scope of work.**

**Eskom is in no way assumes the contractor's legal responsibilities. The contractor is and remains accountable for the quality and the execution of his/her health and safety programme for his/her employees and appointed contractor employees.**

This SHE specification reflects minimum requirements and should not be construed as all encompassing.

COVID-19 has not disappeared or is not under control medically currently, in the sense that symptoms cannot be treated as normal flu condition hence normal day-to-day activities cannot carry on as it was prior to the COVID-19 pandemic. There is possibility that the impact of the virus will continue for a while putting the health of many at risk.


**SHE plan specification to include measures with the focus on "COVID-19" Pandemic.**

- a) AME Site specific induction to be done with all contractors prior commencing work taking the past communications regarding COVID 19 in consideration as by government and Eskom.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

- b) Contractors to do sites COVID-19 specific induction training to all their employees on site and or visitors to the project.
- c) Contractors to demonstrate how on work sites with this challenge will be treated and managed in their **Base Line Risk Assessments** and **Safety Plans, Emergency plans** for the site and to the company.
- d) Taking in consideration the Transportation of employees in vehicles travelling together.
- e) Working in close proximity between employees on work sites.
- f) Manhandling of material and equipment in line with the pandemic exposure.
- g) Medical fitness of employees focussing on the current disease frequency of medical fitness examinations of employees.
- h) Measures of “thermal scanners at all the entrances to the contractors work area” as control measure.
- i) PPE to address and the usage of appropriate PPE for this situation.

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

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

## 2. Supporting Clauses

### 2.1 Scope

This SHE specification lists the legislative and Eskom requirements and where applicable, any requirements pertaining to Local Authorities / Municipal by-laws / Environmental legislation that must be met by the contractor.


#### 2.1.1 Purpose

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

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

### 2.1.2 Applicability

This SHE specification is applicable to any contracting organisation who intends tendering for the 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


- [1] Basic Conditions of Employment Act No 75 of 1997.
- [2] Occupational Health and Safety Act and Regulations No 85 of 1993.
- [3] National Environmental Management Act 107 of 1998.
- [4] National Road Traffic Act 93 of 1996.
- [5] Compensation for Occupational Injuries and Diseases Act 130 of 1993
- [6] Committee of Land Transport Officials (COLTO)
- [7] Environmental Conservation and Forest Act and Regulations 73 of 1989
- [8] Applicable South African National Standards (SANS)
- [9] 32-37 Eskom Substance Abuse Procedure.
- [10] 32-136 Contractor Health and Safety Requirements
- [11] 240-62196227 Life- saving Rules
- [12] 32-95 Environmental, Occupational Health and Safety Incident Management Procedure
- [13] 32-727 SHEQ Policy
- [14] 32- 418 Working at Heights Procedure
- [15] 240-62946386 Vehicle and Driver Safety Management Procedure
- [16] 32-520 Risk Assessment procedure
- [17] Plant Safety Regulations.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

[18] 32-846 Operating Regulations for High – Voltage Systems (ORHVS)

[19] Containment and/or Management of Corona Virus (COVID – 19)

### 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 Crane


[5] DMN 34-1981 Excavations.

[6] National Road Traffic Act – Working next to or close to National Roads

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		


## 2.3 Definitions

Definition	Explanation
<b>Appointed contractor</b>	Means a contractor appointed by the principal contractor
<b>Baseline risk assessment</b>	(32-520) baseline operational risks refer to the health and safety risks associated with all standard processes and routine activities in the business
<b>Business unit (BU)</b>	(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
<b>Client</b>	(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.
<b>Competent person</b>	(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)
<b>Contractor</b>	(OHS Act) means an employer as defined in section 1 of the Act who performs contracted work and includes principal contractors
<b>Construction work</b>	Any work in connection with <ul style="list-style-type: none"> <li>a. the construction, erection, alteration, renovation, repair, demolition or dismantling of or addition to a building or any similar structure.</li> <li>b. the construction, erection, maintenance, demolition or dismantling of any bridge, dam, canal, road, railway, runway, sewer or water reticulation system or the moving of earth, clearing of land, the making of excavation, piling or any similar civil engineering structure or type of work.</li> </ul>
<b>Consultant</b>	means a person providing professional advice
<b>Controlled disclosure</b>	controlled disclosure to external parties (either enforced by law or discretionary)

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

Definition	Explanation
<b>Corona Virus</b>	Family of viruses that causes the common cold, Sudden Acute Respiratory Syndrome (SARS) and Middle East Respiratory Syndrome (MERS). The virus was initially named “n-Coronavirus-2019” and now is named “Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2)”. On 11 February 2020, the disease was re-named by WHO as COVID-19.
<b>Duty of care to the environment</b>	(32-136) anybody who causes, 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
<b>Employee</b>	(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
<b>Employer</b>	(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)
<b>Environment</b>	(32-94) means: 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, and cultural properties and conditions of the foregoing that influence human health and well-being
<b>Environmental Management plan</b>	A detailed plan of action prepared to ensure that recommendations for enhancing or ensuring positive impacts and limiting or preventing negative environmental impacts are implemented during the life-cycle of a project. This Environmental Management Plan should preferably form part of Eskom’s Environmental Management System
<b>Eskom requirements</b>	Eskom requirements flowing from directives, policies, standards, procedures, specifications, work instructions, guidelines, or manuals
<b>Fall protection plan</b>	(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

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

Definition	Explanation
<b>Hazard</b>	(OHS Act) means a source of, or exposure to, danger
<b>Hazard identification</b>	(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
<b>Health and safety file</b>	(OHS Act) means a file or other record in permanent form, containing the information required in relation to the contract.
<b>Health and safety plan</b>	(OHS Act) means a document plan that addresses hazards identified and includes safe work procedures to mitigate, reduce, or control hazards identified
<b>Health and safety specification</b>	(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.
<b>Health and safety requirements</b>	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
<b>Lifesaving Rules</b>	(240-62196227) a rule that, if not adhered to, has the potential to cause serious harm to people
<b>Medical Certificate of fitness</b>	(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
<b>Medical surveillance</b>	(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
<b>Method statement</b>	(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
<b>Organisation</b>	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
<b>Pre-job meetings</b>	(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

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

Definition	Explanation
<b>Principal contractor</b>	(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.
<b>Provincial director</b>	(OHS Act) means the provincial director as defined in Regulation 1 of the General Administrative Regulations under the Act
<b>Responsible Manager</b>	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
<b>Risk assessment</b>	(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.
<b>Site</b>	(34-228) means an Eskom department, unit, complex, building, specific project, work site, or the site where agents, clients, principal contractors, contractors, suppliers, vendors, and service providers provide a service to Eskom, directly or indirectly
<b>Service provider</b>	any private person or legal entity that provides any service(s) to Eskom for compensation
<b>Subsidiary</b>	(32-94) an enterprise controlled by another (called the parent) through the ownership of greater than 50% of its voting stock
<b>Supplier</b>	(32-1034) means a natural or legal person who renders a service and may include the following current or potential supplier vendor, contractor, consultant
<b>Task</b>	(34-227) a segment of work that requires a set of specific and distinct actions for its completion
<b>Toolbox talks</b>	(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.)
<b>The Act</b>	(OHS Act) means the Occupational Health and Safety Act No. 85 of 1993, as amended, and the Regulations thereto
<b>Visitor</b>	any person visiting a workplace with the knowledge of, or under the supervision of, an employer.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		


## 2.4 Abbreviations

Abbreviation	Description
AIA	Approved Inspection Authority
BU	Business Unit
Can CHSA	Candidate Construction Health Safety Agent
Can CHSM	Candidate Construction Health Safety Manager
CE	Chief Executive
CNC	(Eskom) Customer Network Centre
CR	Construction Regulations of the OHS Act
COID Act	Compensation for Occupational Injuries and Diseases Act
COVID-19	'CO' stands for corona, 'VI' for virus, and 'D' for disease. Formerly, this disease was referred to as '2019 novel coronavirus' or '2019-nCoV.' The COVID-19 virus is a new virus linked to the same family of viruses as Severe Acute Respiratory Syndrome (SARS)
DMR	Driven Machinery Regulations
DeL	Department of Employment and Labour ( Inspection and Enforcement services – Provincial office)
EAP	Employee Assistance Program
EP	Emergency Preparedness
ERfW	Environmental Regulations for Workplaces
GAR	General Administrative Regulations
GSR	General Safety Regulations
HCS	Hazardous Chemical Substances
LDV	Light Delivery Vehicle
LoG	(COID) Letter of Good Standing
MSDS	Material Safety Data Sheets
NEMA	National Environmental Management Act
OHS Act	Occupational Health and Safety Act and Regulations, 85 of 1993
Pr CPM	Professional Construction Project Manager
SACPCMP	South African Council for the Project & Construction Management Professions

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

Abbreviation	Description
AIA	Approved Inspection Authority
BU	Business Unit
Can CHSA	Candidate Construction Health Safety Agent
Can CHSM	Candidate Construction Health Safety Manager
CE	Chief Executive
SABS	South African Bureau Standard
SANS	South African National Standard

## 2.5 Roles and Responsibilities

### 2.5.1 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.

This scope of work is under the execution and “**Notification of Construction Work**” has been obtained from Department Of Labour as per the Construction Regulations. No work on this site will be done without approved ‘Notification of Construction Work’ that should be kept on site on the safety file on site and available at all times for the duration of this project at Apollo Earth return station.


### 2.5.2 Principal contractors and appointed contractors

**Note 1:** Most of the roles and responsibilities listed apply to both principal 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:

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		


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. The principal contractor must **notify the provincial director of the Department of Employment and Labour** in writing of all construction work if it falls within the scope of Regulation 4 of the Construction Regulations (if this has not been arranged and or done by the client/agent);
3. 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;
4. 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.
5. 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.
6. Ensure that the minimum legislative, regulatory and Eskom SHE requirements are complied with on all work sites.
7. Give the Eskom **AME (Asset Management Execution)** project managers and line managers / responsible managers their full participation and cooperation.
8. Compile a SHE (health and safety) file where all relevant health and safety records must be kept for each work site and for scope of work.
9. The principal contractor must provide a **monthly Safety performance status (SHE) report** on the project to the Eskom Transmission AME Project Manager and or to the AME project Site Supervisors for the project on or before the last day of every working day of the month. (This SHE performance will include when contractors are used – sub-contractors)
10. The principal contractor **must hand over a consolidated** (to include any appointed contractors files) health and safety file to the Eskom project manager on completion of the

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		


project. This is to include all (Project Records and Documentation) drawings, designs, lists of materials used and other applicable information about the completed project, as well as the list of appointed contractors, the agreement, and the type of work completed (Annexure A).

11. **Contractors** must hand over a **consolidated (to include any appointed contractors files) health and safety file** to the principal contractor / Client on completion of the project. This is to include all drawings, designs, lists of materials used and other applicable information about the completed project, as well as the list of appointed contractors, the agreement, and the type of work completed. **(Annexure A)**
12. The principal contractor must provide the project manager with a certified copy of his/her Compensation Commissioner's valid letter of good standing before the commencement of work and any future renewal letters obtained during the project for record-keeping purposes. The letter of good standing shall reflect the name of the contractor's company. Similarly, the principal contractor must provide the Eskom project manager with all the valid letters of good standing from their appointed contractors.
13. Contractors must provide the principal contractor with a certified copy of his/her Compensation Commissioner's valid letter of good standing before the commencement of work and any future renewal letters obtained during the project for record-keeping purposes. The letter of good standing shall reflect the name of the contractor's company.
14. 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.
15. 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.
16. Employees to exercise and to be informed regarding their "right of refusal to work on grounds of unsafe working conditions".

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

17. Co-ordinate the activities of all the appointed contractors in the interests of safety and health;
  18. Ensure that potential contractors (whom they intend appointing) submitting tenders have made detailed provision for the cost of safety and health measures throughout the project.
  19. Stop his / her employees and any appointed contractors if project work is not in accordance with the health and safety plan or if such work poses a threat to the health and safety of persons or a risk of degradation to the environment.
  20. Take reasonable steps to ensure cooperation between all their appointed contractors.
  21. Only appoint contractors to do work, if satisfied that the contractor has the necessary competencies and resources to perform the work safely.
  22. Appoint full-time competent employees in writing to supervise the performance of all specified work throughout the contract period.
- Note 2:** No work may commence and or continue without the presence of the appointed project manager or project supervisor during performance of the contracted work.
23. 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.
- Note 3:** In determining the number of appointed competent supervisors, the nature and scope of work being performed, shall be taken into consideration.
- Note 4:** If a sufficient number of competent employee(s) have been appointed to assist the construction supervisor, the construction supervisor may supervise more than one site.
24. Appoint a full or part time safety officer or construction safety officer (registered with SACPCMP) in writing.
  25. 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;

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

26. Follow a process of disciplinary action if any of their employees or their appointed contractor employees has transgressed any of the requirements of the health and safety specification, safety and health plans, site rules or any other requirements.
27. Ensure that all appropriate precautions are taken to protect persons (visitors, members of the public, and other contractors) present at work or in the vicinity of a construction site against all risks that may arise from such site.
28. Before the commencement of any work, conduct risk assessments, which shall include public safety. This should be done by a competent person appointed in writing with a view to identify hazardous and potentially hazardous work operations.
29. 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.
30. Take prime responsibility for all aspects of environmental management associated with the project activity for which they are responsible.
31. Provide any appointed contractor who is making a bid or is appointed to perform work on Eskom's behalf, with the relevant sections of the documented Eskom's SHE Specification.
32. Principal contractors are required to approve appointed contractor's health and safety plans if they meet all the requirements.
33. Must ensure that an organisation medical surveillance programme for the duration of the contract is in place and maintained.
34. 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.
35. Ensure that pre-employment, periodic and exit medicals are carried out on their employees. Medical assessments must be conducted by a registered Occupational Health Practitioner. During the pre-employment medical, where employees will be required to work at heights, they will also be required to undergo the required employee physical and psychological fitness examinations.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

36. Ensure, prior to the commencement of construction work, that all persons involved in the project work, as well as the appointed contractors, have **received a health and safety induction training session**. Similarly, ensure that all visitors to site undergo the site's induction training.

37. Ensure, prior to the commencement of construction work or contracted work, that all their employees involved in the project work, as well as the appointed contractors, have **received task-specific training**.

38. 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 5:** should the principal contractor or his/her appointed contractors entertain visitors on site, they will be held responsible for the provision and wearing PPE.

39. Erect (site establishment) **their own site huts, temporary buildings, storage areas, toilets, fencing, and any other structure as may be required**. Any such structures shall be positioned and erected in compliance with any instructions from the Eskom project manager and the relevant site safety and fire prevention requirements;

40. On completion of the work remove all structures erected by them, and where required by law rehabilitate the environment.

41. Where performing work with the environment, ensure that minimal damage is done and that where an Environment Management Plan is in place, then adhere to the plan.

42. Respect the rights of land owners/lessors and the preservation of their registered activities;


43. Must have a substance abuse program, which must be in line with the requirements of the OHS Act.

44. Ensure that no alcohol or other intoxicating substances are brought on to, or remains on the work sites.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		


**Note 6:** Eskom will not tolerate the presence of anyone who is or who appears to be under the influence of alcohol or any other intoxicating substance whilst performing work for them or on any work site.

45. Ensure that all equipment and tools used comply with OHS Act requirements with respect to condition, use, care, storage, maintenance, and the management of these;
46. Ensure that **all incidents are reported and investigated** timeously by competent incident investigators. **Full investigation to be done by Principal Contractor with Eskom representative and copies of all reports, COIDA documents, Medical Documents and actioned proof documents on findings and lessons learned to be provided to the Project Manager of AME, Prior completion of project on site.**
47. Be involved in all of their appointed contractor's investigations.
48. Establish health and safety committees, hold such committee meetings on all sites, and ensure that appointed contractors participate in their health and safety meetings.
49. Chair their own health and safety committee meetings and record such meetings.
50. Appoint sufficient number of health and safety representatives in terms of legislative requirements and ensure that the appointed contractors appoint health and safety representatives for their work sites.
51. When appointing contractors, advise the project manager in writing timeously and obtain his/her approval prior to them commencing work.
52. Shall keep a record of all employees including the appointed contractor's employees, including date of induction, relevant skills and licenses and be able to produce this list at the request of the Eskom Project Manager.
53. Contractors are expected to follow the guidelines as stipulated by government and Eskom on the prevention, containment/management of the corona virus. Thus make necessary plans (i.e. BRA, Safety & Emergency plans) to manage, treat and provide employees with appropriate PPE to protect the health of workers against Corona virus.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

### 2.5.3 Construction Managers / Contract Managers


**Note 1:** No work may commence and or continue without the appointed supervisor or manager during the performance of the contracted work.

1. Not supervise construction work on any construction site other than the site they have been appointed to supervise;
2. Assist the contractor and/or the appointed safety officer in conducting site induction training for new staff and site visitors;
3. Instruct and train all employees under their control on any hazardous and related work procedures, before any work commences and thereafter, at such times as may be determined by a risk assessment;
4. Ensure that the minimum legislative and Eskom SHE requirements are complied with on all work sites;
5. Stop any construction work that is not in accordance with the safety and health plan or if such work poses a threat to the safety and health of persons or a risk of degradation to the environment;
6. Ensure that risk-based personal protective equipment (PPE) has been issued and employees wear/use the PPE as instructed.
7. Principal contractor to appoint a full time competent (CHSM) Construction Health and Safety Manager or a part-time Construction Health and Safety Officer in writing to assist with the control of health and safety related aspects on the site.
8. Inspect such PPE on a regular basis and record the inspections;
9. Ensure that all incidents are reported to the client and are investigated.
10. Be involved in all investigations that occur within their area of responsibility.
11. Carry out audits and or inspections on their contractors at least monthly and any appointed contractors on instructions of their contractor.
12. Ensure that employees under their control are conversant with all relevant work procedures and that they adhere to such procedures;
13. Before the commencement of any work, where possible, assist in the conducting of risk assessments and ensure that appropriate mitigating measures have been considered and implemented.
14. Ensure that daily or 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. Ensure that the team are involved in the abovementioned risk assessments;
15. Hold tool box talks at the start of each day/ task to discuss health and safety issues as well as confirming the requirements of the daily risk assessments;

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

16. Ensure that all appropriate precautions are taken to protect persons (visitors, members of the public, and other contractors) present at work or in the vicinity of a construction site against all risks that may arise from such site.
17. Ensure that no alcohol or other intoxicating substances are brought on to, or remains on, the premises / work sites and that no employee remains on site if he/she is under the influence. Furthermore, report such instances to contract management;
18. Ensure that all equipment and tools used on site comply with OHS Act requirements with respect to condition, use, care, storage, maintenance, and the management of these.
19. Ensure that they and their contractor managers give clear and unambiguous instructions for the project work, to the employees for whom they are responsible for.
20. Not victimise their employees by virtue of their employees divulging health and safety information or suspecting such information has been divulged, in the interests of health and safety requirements (reference – section 26 of the OHS Act).
21. Where any work is performed which involves the environment, ensure that minimal damage is done to the environment and that where an Environment Management Plan is in place, then the plan adhere to the plan.
22. Stop any employee or contractor from performing construction work, which is not in accordance with the principal contractor's and or appointed contractors health and safety plan, which poses a threat to the health and safety of persons.
23. Ensure resources are available to protect workers from the transmission of the corona virus and that the plans, risk assessment include the containment of the infection as well as the spread and treatment of the virus.

#### 2.5.4 Contractor site supervisor or Contract Supervisor

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

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

7. Ensuring a Safe working environment is established and maintained by the contractor for the elimination of unsafe acts by all people whilst on the project site.
8. 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 procedure requirements, non-conformance's identified, corrective actions, audits and inspection schedules.
9. Ensuring that quality records are maintained in accordance with legislative and Eskom requirements;
10. Continual liaison between the principal contractor, appointed contractors and employees.
11. Ensures that employees and appointed contractors are aware of latest standards, procedures, work instructions and safety regulations issued by Eskom:
12. Conduct site Inspections for compliance to SHE requirements and compiles the relevant inspection reports.
13. Submit the observation reports to the relevant management.
14. Have meaningful participation in the project statutory health and safety committee meetings.
15. Participate in all appointed contractor incident investigations.
16. Participate in the principal contractors emergency preparedness planning.
17. Ensure that their own employees and those of any appointed contractor are competent to perform the tasks assigned.
18. Issue site instructions on behalf of the principal contractor where and when the appointed contractors deviate from safety requirements.
19. Assist the principal contractor with the handing over process, in particular the SHE file and relevant documentation.

### 2.5.5 Employees

Must:


1. Be responsible for their own safety and health and that of their co-workers;
2. Co-operate with their employer to meet all of the employer's as well as legislative and Eskom requirements;
3. Familiarise themselves with their responsibilities during induction and awareness training sessions, some of which are:
  - a. familiarising themselves with their workplaces and safety and health procedures;
  - b. working in a manner that does not endanger them or cause harm to others;

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

- c. ensuring that the work area is kept tidy;
  - d. reporting all incidents and near misses;
  - e. protecting fellow workers against injury by performing job observations;
  - f. reporting unsafe acts and unsafe conditions;
  - g. reporting any situation that may become dangerous; and
  - h. carrying out lawful orders and obeying safety and health rules;
4. Who become aware of any person disregarding a safety notice, instruction, or regulation, immediately report this to the person concerned. If the person persists, stop that person from working, and report the matter to contractor management and/or Eskom's project manager or supervisor immediately.
  5. Not damage, alter, remove, render ineffective, or interfere with anything that has been provided for the protection of the site or for the health and safety of persons this includes any guarding of machinery or equipment.
  6. Obey any safety signs and adhere to any site demarcation at all times.
  7. When entering or leaving the site, do so via the official designated access/departure routes. Where reflective jackets/bibs are required to be worn, wear them.
  8. Be subjected to any disciplinary action, if having transgressed any of the requirements of the health and safety site rules, Eskom requirements, company requirements, or legislative requirements.
  9. Avoid any act that may endanger their own health and safety or that of fellow employees, members of the public, or visitors who may be affected by their acts and/or omissions at work.
  10. Have the right to obtain proper information from their employer regarding health and safety risks and measures related to the work processes.
  11. Use facilities placed at their disposal and not misuse anything provided for their own protection or that of others.
  12. Have the right to remove themselves from danger when they have good reason to believe that there is an imminent and serious danger to their health and safety and have the duty to inform their supervisor immediately of such danger.
  13. Report to their supervisor (in the first instance), the principal contractor (in the second instance), and/or the Eskom project manager, any substandard acts and/or conditions that have come to their attention and that have not been rectified or acted on by their contractor management timeously.
  14. Have the right and the duty at any workplace to participate in ensuring healthy and safe working conditions, to the extent of their control, over the equipment and methods of work adopted.
  15. Maintain the surrounding area of the work site in a neat and tidy condition.
  16. Have meaningful participation in regular health and safety meetings.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

17. Have the right to refuse to perform or continue to perform any task/job on the grounds of health, safety, and environmental concerns.
18. When given instructions, understand the instructions and be permitted to clarify those instructions.


### 2.5.6 Contractor Health and Safety Officer/Construction Health and Safety Manager SACPCMP Registered

1. Promote a SHE culture within the organisations involved in the project / contract.
2. The contractor's safety and health officer shall assist in the control of all health and safety-related matters on the sites.
3. Be involved in the developing the project SHE plan and SHE policy.
4. Be in constant liaison and cooperate with Eskom's SHE professionals responsible for providing them with a health and safety service.
5. Ensure that this SHE specification is adhered to by his/her principal contractor and is submitted to any appointed contractors.
6. Conduct audits and inspections of all work sites for the duration of the project.
7. Be involved in the organisations incident investigations when required.
8. Participate in the organisation's statutory and non-statutory health and safety committees meetings.
9. Conduct organisational, site and visitor induction training.
10. Stop any employee or contractor from performing construction work, which is not in accordance with the principal contractor's and or appointed contractors health and safety plan, which poses a threat to the health and safety of persons.
11. Ensure that no alcohol or other intoxicating substances are brought on to, or remains on, the premises / work sites and that no employee remains on site if he/she is under the influence. Furthermore, report such instances to contract management.
12. Make themselves available and ensure co-operation of employees under their control to undergo breathalyser and drug testing while entering and/or being on any Eskom work site by Eskom.
13. Carry out audits and or inspections on their contractors at least monthly and any appointed contractors on instructions of their contractor;
14. Carry out frequent behaviour observations of employees under their control at least monthly and any appointed contractors on instructions of their contractor.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

## 2.6 Related / Supporting Documents

Eskom OHS Act section 37 (2) agreement to be signed at procurement during the signing of the NEC contract, it is the responsibility of the project manager to ensure that the 37(2) agreement is signed and a copy be kept in the contractor file at procurement.

Eskom OHS ACT Regulation CR 5 (1) (k) Appointment of Principal Contractor to be appointed prior commencement of any work and ensure signed appointment is on Contractor's safety file.

## 3. Specification

### 3.1 Scope of work

- Install a fire detection system in each stand-alone protection kiosk at Hydra MTS.
- Wire the system to the power distribution board and fire and air conditioner alarm panel.
- Ensure that the smoke alarm/fire alarm is marshalled to the ERTU and communicated to control.
- The smoke/fire alarm should be marshalled together with the over/temperature alarm for system reliability.


#### 3.1.1 Site Characteristics

- Possibility of COVID-19 - CORONA VIRUS spreading on work site in the current situation from March – June 2020 (as confirmed by the respective government authorities). Contractors to take all precautions to prevent and contain the spread of corona virus as stipulated by government and Eskom.
- Project is located at Hydra SS, located 10kms from De Aar, Northern Cape
- Police emergency and Medical services are available in the town of De Aar
- Contractors to use surrounding area for accommodation or negotiate area to set up camp depending on agreement with Project Manager.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

- Utilising of heavy construction vehicles must be limited to construction site and access road.
- Drinking water should be provided by contractor to its workers as Eskom does not provide water to Contractors. The Contractor to provide water for construction and human use (drinking and for hygiene purposes).
- There are no toilet facilities available on site for the contractor to use. The Contractor is to provide his own toilet facilities on site and ensure that these facilities are kept in a clean condition to Eskom's satisfaction. No work on site will be allowed to commence before the toilet facilities are available on site.
- Physical climbing of structures to erect equipment on site, elevated work must be supervised by the appointed person.
- Construction Regulations 11(1) (a) – all structures to be inspected and safely declared prior climbing or working on and from during erection and dismantling of any structures.
- Construction Regulations 20: BULK MIXING PLANTS - the amount of concrete to be used is not specified how this will be either transported or on site done, method statement for concrete work to be approved prior work commence and in situation of bulk mixing plant to be erected, requirements of Regulation 20 to be complied too.
- Construction Regulations 22: In situation where cranes will be used for site laydown, regulations 22 to be complied to and Driven Machinery Regulations.
- Occupation Health and Safety Act, (Act 85 of 1993) will be complied too prior any work commence on project and with specific compliance of construction regulations as amended within the Act.


### Scope of work

- Install a fire detection system in each stand-alone protection kiosk at Hydra MTS.
- Wire the system to the power distribution board and fire and air conditioner alarm panel.
- Ensure that the smoke alarm/fire alarm is marshalled to the ERTU and communicated to control.
- The smoke/fire alarm should be marshalled together with the over/temperature alarm for system reliability.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

This is the high-level scope of work, for detail scope refer to the design documents.

**A copy of the scope of works** must be retained by the contractor.

On completion of the work the house keeping of the work area will be in a safe condition to prevent any hazard to any worker and all additional material not used during this phase will be safely disposed at a registered recognised waste site.

**Note:** The contractor who will be awarded this contract will be known as the “principal contractor” and any contractor appointed by the principal contractor will be known as the “appointed contractor.”

## 3.2 Legal Compliance

### 3.2.1 Section 37(2) (Legal) Agreement

A section 37(2) agreement must be signed between Eskom and the principal contractor at the time of awarding the contract. The principal contractor must ensure that a section 37(2) agreement is compiled between the principal 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 retained by the responsible project manager.

A copy of all the agreements must form part of the respective contractor’s SHE file.

Appointment of Principal Contractor by Client to be on the contractor’s SHE file. CR 5 (1) (k)

### 3.2.2 Hazardous work by children (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 to be required or permitted to perform work or provide services that
  - i. are inappropriate for a person of that child’s age; or

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

- ii. place 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 rights of the child in terms of the constitution. 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 principal 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 principal 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
- SA Council for the Project and Construction Management Professions – SACPCMP
- 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.
- National Health Act No 61 of 2003
- Disaster Management Act, 2002 (Regulations relating to COVID-19 Government Notice 318 of 2020)

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

- Covid-19 Occupational Health And Safety Measures in Workplaces COVID-19 (C19 OHS), 2020

### 3.3 Eskom Requirements

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

### 3.4 Construction Professional Registration

The principal contractor and all his/her appointed contractors shall be registered in their respective levels as professionals in terms of the requirements of the SACPCMP.

The SACPCMP web address is <http://www.sacpcmp.org.za>

- SHE professionals (which include Construction Safety Officers) are required to register as professionals with the SACPCMP.
- Construction Managers are required to register as professionals with the SACPCMP.
- Construction agents are required to register as a professional with the SACPCMP.

### 3.5 Notification of Construction Work (Permit to work required OHS Act – Construction Regulations) The Client to apply for Permit To Work


Unless otherwise contractually agreed upon, the principal contractor must notify the relevant provincial director of the Department of Employment and Labour (DeL) of the intention of carrying out any construction work as defined in Construction Regulation 4 of the Act. The notification form of construction work is listed as an annexure to the construction regulations of the OHS Act. A copy of the notification letter sent to the DeL shall be forwarded to the Project Manager on the same day as sent to the DeL. A copy of the letter and their approval must be kept in the SHE file. When the DeL provides a letter of approval, a copy of the approval must be sent to the Eskom Project Manager and a copy filed in the SHE file.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

### 3.6 SHE Policy

SHE policy is a statement of intent and a commitment by the organisation's Chief Executive (CE) and senior management in relation to the relevant SHE roles and responsibilities, the achievement of their strategic objectives, values of integrity, customer satisfaction, excellence, and innovation.

The principal contractor and all appointed contractors, if already not in place, will be required to compile an organisational SHE policy in line with their SHE 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 SHE files and attached as an annexure in the SHE Plan.

### 3.7 COID

The principal 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 SHE files.

### 3.8 Costing for SHE within the Project

The costing for SHE must be itemised based on the overall scope of the project (i.e.) Training, provision of PPE, safety equipment purchases (etc.). COVID – 19 requirements on site must be included to prevent and contain the spread of the infection among workers while performing their duties.

Verification will be done during project, safety requirements are met based on costs on safety as per itemised based per contractors information submitted.

### 3.9 Statutory Appointments


For the duration of the contract, the principal contractor and all appointed contractors shall appoint competent employees who will meet the requirements of the OHS Act. Where

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

appointments are made, contractors shall ensure that the appointees have been suitably trained and/or informed of their responsibilities before getting them to accept such appointment. The relevant statutory appointments shall be made in accordance with the requirements of the OHS Act, which includes the requirement of a competent person being appointed in the relevant roles. The statutory appointments should include but not limited to the following:


- OHS Act Construction Regulation 8(1) - Construction Manager (Full time)
- OHS Act Construction Regulation 8(7) – Assistant Construction Supervisor
- OHS Act Construction Regulation 8(5) – Construction Health and Safety Officer
- 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 Construction Regulation 7(1)(V) Appointment of a Contractor (if appointing subcontractors)
- OHS Act Construction Regulation 9(1) - Person to Compile Risk Assessments
- OHS Act Construction Regulation 10(1) - Competent Person to Compile Fall Protection Plan
- OHS Act: Pressure Equipment Regulations 11 & 12 Portable Gas Container Inspector
- OHS Act: Construction Regulations 11(1) Person to Supervise Excavation Work
- OHS Act: Construction Regulations 16(1) Scaffolding Supervisor
- OHS Act: Construction Regulations 23(1)(d)(i) Construction Vehicle and Mobile Plant Operator
- OHS Act: Construction Regulations 24(c) Electrical Installations and Machinery on construction sites
- OHS Act: Construction Regulations 28(a) Stacking and Storage Supervisor on Construction sites
- OHS Act: Construction Regulations 29(h) Firefighting Equipment Inspector
- OHS Act General Safety Regulations 3(4) – First Aider/s

In terms of COVID-19 Direction on Health and Safety in the Workplace issued by the Minister in terms of Regulation 10(8) of the National Disaster Regulations, the following appointments need to be made:

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

- It must appoint a manager to address employee or workplace representative concerns and to keep them informed and, in any workplace in which an health and safety committee has been elected, consult with that committee and the nature of the hazard in that workplace and the measures that need to be taken
- This Directive remains in force for as long as the declaration of a national disaster published in Government Gazette 43096 on 15 March 2020 remains in force.

Minister Thulas Nxesi: Economic Cluster Media Briefing on Coronavirus COVID-19 Alert Level 3. In terms of the draft amendments, employers who will be reopening their businesses in terms of Alert Level 3 will be required to do the following:

- appoint a COVID-19 compliance officer,
- undertake a risk assessment of the workplace,
- and develop a plan for the return to work.
- This must be done before re-opening their businesses - in consultation with representative trade unions and health and safety committees.

### 3.9.1 Non-statutory appointments

- Eskom requirement – Emergency Planning Co-coordinator
- Eskom requirement - Chairperson of Health and Safety Committee

## 3.10 Eskom Life-saving Rules


1. Eskom views health and safety in high esteem and encourages that any organisation who performs work for Eskom in Eskom adopt the same view.
2. Five Life-saving rules have been developed that will apply to all Eskom Employees, agents, consultants, and **contractors**. Failure to adhere to these rules by any Eskom employee or employee of a Principal Contractor or appointed contractor will be considered a serious transgression. These rules are being implemented to prevent serious injury or death of any employee, labour broker or contractor working in any area within Eskom.
3. If any contractual work will be performed on any Eskom premises (including delivery of any product), then the rules **shall be obeyed** by any contractor and their employees.

The rules are:

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

RULE	DESCRIPTION OF RULE
Rule 1	<b>OPEN, ISOLATE, TEST, EARTH, BOND, AND/OR INSULATE BEFORE TOUCH</b> ( That is plant, any plant operating above 1000 V)
Rule 2	<b>HOOK UP AT HEIGHTS</b> 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	<b>BUCKLE UP</b> 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	<b>BE SOBER</b> No person is allowed to be under the influence of intoxicating liquor or drugs while on duty
Rule 5	<b>PERMIT TO WORK</b> Where an authorisation limitation exists, no person shall work without the required permit to work.

Eskom will take a stance of zero tolerance on these rules.


Non-compliance to a Life Saving rule will be considered serious misconduct and will lead to serious disciplinary action, which may include dismissal.

This is to ensure that **every person** who works on or visits an Eskom **returns home safely to his or her family.**

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

### 3.11 Substance Abuse

1. Alcohol and substance abuse poses a significant threat to any business, more so in industrial incidents and the driving of vehicles. Eskom is therefore, entitled to take reasonable steps to ensure that intoxicated persons are identified and prevented from entering Eskom.
2. General Safety Regulation 2A is clear on the legal stance regarding intoxication.
3. The alcohol and drug permissible level is 0%.
4. All contractors shall comply with Eskom's procedure 32-37 ("Substance Abuse Procedure"), taking in to account that this is an Eskom Life-saving Rule number 4: BE SOBER", this means anyone entering the Eskom will be subjected to ad hoc alcohol testing.
5. Contractors are encouraged to compile their own manual and to carry out regular alcohol testing of their own employees. The legislative alcohol level is deemed to be zero.
6. Test records must be treated as "Confidential" and filed in the employees' personal file.

### 3.12 Corona Virus

WHO has classified COVID-19 as a pandemic as the number of cases and fatalities of COVID-19 increases around the world. CORONAVIRUS (SARS-CoV-2) is transmitted through the spread of infected droplets, which can remain on surfaces for up to an average period of two hours within 1m to 2.5m distances from the source. The virus is predominantly transmitted through coughing, sneezing, exhaling with an open mouth and touching one's face, an infected person or contaminated surfaces.


On 29 January 2020, the Minister of Health, Dr. Zweli Mkhize, officially declared this disease as an outbreak in South Africa and classified the outbreak as a Public Health Emergency of International Concern (PHEIC), advising South Africans to be on Alert. Subsequent to the first case of COVID-19 confirmed in South Africa on Thursday, 5 March 2020, the Minister changed the classification of response to High Alert, and further urged all South Africans to take all reasonable precautions to prevent the risk of infection and transmission of the virus.

Diagram below briefly describe the virus, symptoms and its transmission.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

# What is Coronavirus?

Coronaviruses are a large family of viruses that cause illness ranging from the common cold to more severe diseases like pneumonia, MERS and SARS

**COMMON SYMPTOMS**


- High temperature
- Cough
- Shortness of breath/ breathing difficulties
- Body aches/ muscle pain

**SEVERE SYMPTOMS**

- High Fever (100.4°F or higher)
- Pneumonia
- Kidney failure
- Death

**TRANSMISSION**

Coughs or sneezes from infected person or touching contaminated objects



**EXPRESS**


SOURCE: Centers for Disease Control and Prevention/ USA Today/ World Health Organisation

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		


Respiratory hygiene measures to prevent the spread of the virus when someone is coughing, sneezing or spitting:



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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

### **Wearing masks**

Although the cloth face-mask may not be as good as a surgical face-mask in hospital settings, the cloth face-mask is a suitable alternative to surgical face-masks for reducing droplet spread in public settings. Hence, cloth face-masks are being recommended for the general public to reduce the spread of the Coronavirus.

Face-masks are recommended as an addition to hand-washing and social distancing, it does not replace these 2 more important prevention strategies. The cloth face-mask should never be promoted as primary prevention strategy and should never be promoted separately from hand-washing and social distancing.

The public should not use N-95 respirator masks and surgical masks. Surgical masks and N-95 masks are critical supplies that must be reserved for healthcare workers and other medical first responders. The public should be strongly discouraged from using these medical-use masks.

Cloth face-masks need to be worn and cleaned properly. The face-mask must cover the nose and mouth completely. Face-masks should not be lowered when speaking, coughing or sneezing. Face-masks should not be repeatedly touched – fidgeting with the mask repeatedly is strongly discouraged as it is important to avoid touching the face with hands. The inner side of the mask should not be touched by hands. Wash hands after removing the face-mask. Wash cloth face-masks with warm soapy water and iron when dry. Each person will need to have at least 2 face-masks so that one face-mask is available when the other is being washed. If possible, iron the mask after washing as it will help with disinfection.

### **Prevention, Containment and Management of Corona Virus**


The Contractor is expected to safeguard the health of their workers by putting in place measures that will assist in the prevention and containment of COVID-19 by following the guidelines as stipulated by government. The following can be done to prevent, contain the virus:

- Practice good hygiene (i.e. wash hands with soap and water or the use of hand sanitizer on site)

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

- Take temperature measurements
- Use risk assessment meeting to discuss the covid-19 & symptoms and how to get medical attention for those displaying symptoms
- Observe social distance wherever possible and if not viable what will be done to protect the health of employees
- Wear masks, gloves etc.
- Regularly disinfect and clean surfaces and objects and to keep hands clean after touching potentially contaminated surfaces.

Contractor to demonstrate in the Base Line Risk Assessments, SHE spec and Safety Plans, Emergency plans the management of COVID – 19 at Apollo Earth return station, including the following:

- Taking in consideration the Transportation of employees in vehicles travelling together.
- Working in close proximity between employees on work sites.
- Manhandling of material and equipment in line with the pandemic exposure.
- Medical fitness of employees focussing on the current disease frequency of medical fitness examinations of employees.
- Measure temperature using “thermal scanners” at all the entrances to the contractors work area” as control measure.
- PPE to address and the usage of appropriate PPE for this situation.

The following risk factors should be taken into consideration for workers that will be brought to site:


- Immunity/ pre -existing conditions and the risk of exposure to Corona virus (SARS-CoVCoV -2)
- Age and the risk to the Corona virus (SARS-CoVCoV -2)
- Personal travel and the risk of Corona virus (SARS-CoVCoV -2)
- Business travel and the risk of Corona virus (SARS-CoVCoV -2)
- Meetings/ engagements and gatherings the risk of Corona virus (SARS-CoVCoV -2)

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

### 3.13 Contractor organisational Structure

#### 3.13.1 Principal Contractor Organogram

The principal contractor must provide an organisational organogram 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 and legal appointments.

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

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

#### 3.13.2 Appointed Contractor/s Organogram

1. Appointed contractors are required to compile their company organogram for the project, listing the reporting structure from their CE down to their project supervisors. The diagram must list the names, positions held and any appointments made.
2. This diagram must be kept up to date, a copy of which must be given to the principal contractor and a copy filed in the relevant project SHE files.
3. This diagram must be kept up to date and filed in the project SHE files.

### 3.14 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 an organisation 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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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

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

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

done through an interpreter if required and recorded on the Pre-Job Brief (Daily Safe Task Instructions), with reference to applicable Risk Assessments.

### Site Specific Health and Safety Hazards - Hydra SS

Eskom outlines the site-specific Health and Safety hazards pertaining to the environment and physical conditions that the Contractor may be exposed to in performing his work on site, but is not limited.


These hazards will include, but are not limited to **HIGH RISKS**

- Potential security threat due to collapsed fence and in other cases patched up fence that was cut by criminals when accessing the substation
- Theft of equipment, material, vehicle and plant on site
- Unstable structures, wall on site risk safety of workers
- Underground services not known
- Care should be taken when traveling to site as vehicles will be travelling on open veld, especially look out for wild animals.
- The contractor will be responsible to rehabilitate any formation of possible erosion within the substation and construction area. The use of heavy construction vehicles must be limited within the substation and access road.
- Building work activities
- Manhandling work
- Security Fence dissembling, erection and cutting work, potential safety hazard
- Livestock (animals) and household pets not allowed on site (on site as well as on all access roads)
- Walk on dry long shrubs/grass
- Fire hazard on grass areas for hot work
- Business and residential area close to substation, area where work will take place
- Structures are old that needs to be replaced – risk to tower integrity
- Work will be done under High Voltage Environment with live equipment
- Steel work is very old and the re-use and erection of the steel work is a hazard
- Moving Machinery / Construction Vehicles
- Moving and using Lifting Machinery
- Driving or travelling in vehicles on site
- Dust generated from travelling on site
- Rain/ Water/ Mud

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

- Extreme cold in winter time
- Extreme heat in Summer time
- Adverse weather patterns (i.e. hailstorms)
- Snow (winter time)
- Drowning in water environment if present
- Theft of equipment
- Strong winds
- Snakes / Spiders / Vectors
- Uncontrolled fires
- High-jacking of vehicles in area of work
- Water pollution
- Drug use / Alcohol abuse
- Electrical contact
- No availability of safe drinking water for human consumption
- Hazardous Chemical Substances and Flammable Liquids Exposure
- Slip, Trip and Falls
- Uneven gravel roads
- Incompetent persons/ personal behaviour
- Concrete work, civil construction
- Availability of safe drinking water for human consumption
- Demolishing structure on completion of project
- Working on corroded structures
- Excavation work / open trenches
- Elevated work
- Decommissioning and removal of structures
- Bacterial/viral exposure (i.e. Covid – 19)
- Working on corroded ladders of masts/structures
- Working under / below structures and possibility of “head injuries” will be present.
- Ergonomics - expose workers to work in a crouch/bending position during casting of concrete, building the bund wall is just the risk of exposure to concrete and
- Repetitive work - resulting in strains and equivalent injuries if not frequent breaks are taken by employees.
- Material carrying (bricks) via the live area
- Concrete - mixing concrete for building work, delivery of concrete - travel within HV Yard, size of the truck and safe movement of truck.
  - Community unrest delaying project as community members seek employment

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

- Transmission of infectious diseases (i.e. Corona virus)
- COVI 19 CORONA VIRUS spreading between workers on site work working in close proximately – (Minimum 1 meter distance between workers)

Although the above-mentioned are identified as hazards, the risks associated with some of these hazards might be very low or non-existent. Access to substations is high risk environment

### 3.15 Safe work procedures / method statements

Method statements / written safe work procedure (SWP) 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:-

- Designing a new job or task;
- Changing a job or task;
- Introducing new equipment or substances; and
- Demolition work is performed and
- All tasks to be performed as per risk assessment tasks


The safe working procedure should identify:

- The supervisor for the task or job and the employees who will undertake the task;
- The tasks that are to be undertaken that pose risks;
- The equipment and substances that are used in these tasks;
- The control measures that have been built into these tasks;
- Any training or qualification needed to undertake the task;
- The personal protective equipment to be worn;
- Actions to be undertaken to address safety issues that may arise while undertaking the task.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

### 3.16 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 (stability, suitability strength etc.), consequences of climbing and control measures that are required.

### 3.17 Construction Sites


**Note1:**No area is to be stripped of vegetation to create firebreaks, to prevent or make fires. No open fires are allowed on site. The contractor must ensure that operations are in compliance with statutory requirements at all times.

1. The contractor to develop a site layout diagram for site establishment indicating areas for storing material, parking, mobile offices, ablution facilities and other needs to be used by contractor
2. The contractor must develop a fire safety procedure for the construction site prior to commencing work. The procedure must take into consideration the size of the site/s, the type of work performed and amount of combustible materials. Cognisance of OHS Act CR 29 must be made.
3. It must be developed in accordance with the hot work permit of the Eskom Plant Safety Regulations, Eskom Fire Risk Management requirements and all other applicable Regulations. All workers entering and working in the construction site need to be trained in fire safety and any duties they are required to perform.
4. A suitable fire warning system for alerting site personnel of fire shall be provided, and capable of being heard in all areas of the site.
5. Appropriate portable extinguishers must be available on the construction site and in cases of hot work, be readily available at the location.
6. Storage of combustible and flammable liquid in the construction site is not permitted unless stored in approved flammable cabinets or outdoors away from the buildings.
7. Site Smoking Restrictions must be enforced. No open flames are permissible and where hot work is performed, the work areas must be cleared of any combustibles prior to commencement of work.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

### 3.18 Fire Equipment and maintenance

1. All firefighting equipment's that have been provided shall:
  - a. Be clearly labelled
  - b. Conspicuously numbered
  - c. Entered in a register
  - d. Inspected monthly by a competent person
2. Tested and serviced at recommended intervals by an accredited supplier
3. Results entered in the register and signed by competent person.


### 3.19 Flammable and Combustible Liquids

1. Proposals to store fuel on site must have written approval from the Eskom Project Manager. The volumes of fuel allowed to be stored will depend on site conditions and Statutory Regulations.
2. A maximum storage of 40 litres of fuel is allowed to be stored. Anything greater than 40 litres to be stored in a flammable/combustible liquid store.
3. Adequate numbers of dry chemical fire extinguishers, each with a minimum capacity of 4.5 kg, shall be provided, installed and maintained.
4. All fuel storage areas must comply with the following requirements: -
  - a. Storage should be well clear of buildings.
  - b. Storage areas must be kept free from all combustible materials.
  - c. All Safety signs must be prominently displayed i.e.
    - Flammable Liquid.
    - No Smoking.
    - No open flames.
  - d. Adequate firefighting equipment must be available.
5. Diesel tanks are to be installed in a bunded area; bunded area must be able to contain 110% of tank capacity.
6. Bunded area shall be of a concrete or steel construction and lined with a leak proof sealing material.
7. Bunded area shall have a drain valve.
8. No other material/equipment shall be stored in the bunded area.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

### 3.19.1 Refuelling at the construction site

With the exception of construction vehicles and mobile equipment, before a machine is 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.

Be aware of potential fire ignition.

### 3.20 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 requirements, this includes construction sites. Appointees must be trained to level 2. 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. Principal Contractor must ensure that his /her employees and appointed contractor employees are familiar with the emergency numbers.
6. Contractors shall have one first aid box 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 Principal Contractor and appointed contractor shall ensure that alternative arrangements be made for incidents occurring after working hours.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

### 3.20.1 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 boxes and boxes shall be checked on a regular basis, kept clean and dust free.


### 3.21 SHE Communication Systems

Principal Contractor/s and their appointed contractors must develop a **communication strategy outlining how they intend to communicate SHE issues** to their staff, the

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

mediums they will employ and how they will measure the effectiveness of their SHE communication. Communication with radios and or cell phones reception fails in certain areas. 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 SHE files. All employees shall have access to these minutes. Attendance register shall be kept for all the health and safety meetings.


### 3.21.1 Statutory Health and Safety Committees

1. The principal contractor shall establish statutory health and safety committee in terms of Section 19 of the OHS Act, Act. Similarly, appointed contractors shall establish their own statutory health and safety committee.
2. All appointed contractors shall be members of the principal contractor's safety committee.
3. The Committee shall meet to discuss SHE issues concerning the current work being performed, training, upcoming work and SHE requirements, incidents and lessons learned specific SHE problems, safety performance, action plans and other relevant SHE issues. Listed below is a preferred agenda.
4. SHE representatives for a workplace shall be members of the relevant workplace safety committees (Refer to Section 19 (2) (a) of the OHS Act).
5. The number of persons nominated by employer must not be more than the Health and Safety Representatives on that specific statutory health and safety committee. (Refer to Section 19(2)(c) of the OHS Act)
6. A statutory health and safety committee meeting shall be held at least 3 monthly (where medium to high risk work is involved, more frequent if required), and all appointed members of the committee shall attend the meeting.
7. Statutory health and safety committees may make recommendations to the principal contractor and the project manager and the Inspector at DeL.
8. All health and safety committees shall discuss all projects related OHS Act Section 24 and 25 incidents and other notified serious incidents.
9. Health and safety committees shall follow up on incident investigation recommendations and shall keep record of all recommendations made by the committee.
10. Statutory health and safety committees may make recommendations for the revision of current standards, procedures and practices.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

11. The principal contractor and appointed contractors shall ensure that statutory and non-statutory health and safety committees carry out their duties.
12. 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.

### 3.21.2 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


### 3.21.3 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.
  - 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

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

- Planned Job Observations
- SHE 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
- Construction vehicles and mobile equipment
- Rules, Instructions
- Public Safety
- Environmental Management
- Emergency Preparedness
- Statistics report
- Closure


#### **3.21.4 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.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

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.
7. The relevant project manager and principal 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.

#### **3.21.5 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, toolbox talks can be included in the pre-job brief meetings. If this does not occur, then weekly toolbox talks must be conducted. The toolbox talk topics will be based on SHE issues pertaining to the construction site and or the project. The topic contents shall be in writing. Attendance registers with the topic listed shall be kept.


### **3.22 SHE Training**

1. The principal contractor, when making a bid for this project shall provide a breakdown list of the SHE training requirements and the costing of such requirements. Similarly, appointed contractor must provide the same requirements when bidding with the principal contractor.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

- 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 principal contractor and appointed contractors must have the appropriate qualifications, certificates and employees should always be under competent supervision.
- Where legislative and Eskom recommended appointments are made, the relevant training shall be given to those appointees prior to the acceptance of those appointments.
- When there is an amendment to the Acts and/or to the regulations, SHE specification and SHE plan, all affected staff shall undergo the applicable refresher training.
- Appropriate time must be set aside for training (induction and other) of all employees.
- Records of all training and qualifications of all contractor employees must be kept on the SHE file.

### 3.22.1 Induction training

- The principal contractor shall ensure that all his / her employees, appointed contractors and their employees have undergone the Eskom Safety Contractor Management induction training and **Eskom Transmission induction training at Hydra substation** prior to construction can start.
- Attendance registers must be completed of any induction training given, which must indicate that they have received and understood the induction training.
- 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 SHE file on site for the duration of the project.
- All employees and **visitors** on site shall carry the proof of induction training.

### 3.22.2 Site specific induction training


The principal contractor shall ensure that all his / her employees and appointed contractor employees undergo **site specific work induction** with regard to the approved project SHE plan, general hazards prevalent on the construction site, construction 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.

***The principal contractor shall ensure that all his / her employees and appointed contractor employees undergo CORONA VIRUS, COVID 19 awareness training, safety***

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

***measures to eliminate the virus spreading, general hazards prevalent on the construction site, spreading of the virus risks, safety measures to protect employees from the presence of the virus, rules and regulations, and other related aspects to the virus and medical treatment.***

### **3.22.3 Visitors to site induction**

1. Visitors to the site at Hydra SS shall be required to undergo and comply with the principal contractor's site-specific safety induction prior to gaining access to site.
2. 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.
3. Visitors who have completed site induction must be provided with a record of proof of Induction training.

### **3.22.4 General training**

The principal 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 Principal Contractor is to ensure that the supervisor has satisfied himself that the employee understands the hazards associated with any work to be performed by conducting task/job observations.

## **3.23 Contractor Site Establishment**


1. Principal contractor's site facilities should be managed at all times.
2. Prior to establishing a project site, a site plan is required to be drawn listing position of all buildings, amenities, storage, laydown area and stacking areas. The appropriate colour coding and demarcation of storage and stacking areas must be carried out.
3. Where, working in the field and material is stored at the work sites, then proper stacking and storage shall be carried out.
4. 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.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

## DESIGN OF AND MAINTENANCE OF LAYDOWN AREA

The Contractor shall provide the Client with all relevant documents/ drawings for their laydown area, which shall be reviewed by the Eskom management team and accepted if all is in order with the applicable legislation and Client requirements. If agreed by Client to make use of Eskom lay down area, should be recorded as such.

In Situation where the laydown area has not been designed or identified upfront Project Manager and the grid will identify suitable pause area for employees during natural breaks.

**This project is at Hydra SS located within the Northern Cape province and care should be taken and when applying for lay down areas, designated areas should be considered.**

**Laydown Area to be agreed upon prior the commencement of work between grid and Project Manager.** There are no toilet facilities available on site for the contractor to use. The Contractor is to provide his own toilet facilities on site and ensure that these facilities are kept in a clean condition to Eskom's satisfaction. No work on site will be allowed to commence before the toilet facilities are available on site.

The Contractor will arrange for own security for material, workers and work site. All project team members entering site will complete a log book, car and contents will be searched by security personnel. Before entering the construction site project team members will be required to wear appropriate protective clothing, undergo risk assessment then sign the register. Contractors will be required to provide list of personnel, car registration and equipment that will be brought to site.

### Zoning of work area:


Zoning area to be specific to work area and or as per risk identified, where multiple different Principle Contractors are working in the same area of work site. It is necessary to have zoning for the safety of workers to different work activities. Workers must be made aware of zoning and the risk of working within zoning areas.

Zoning should be in the form of barricading, restricting unauthorised people to enter without prior approval by construction manager and or construction supervisor appointed for work site. Employees not to walk drive on premises, which are not identified as safe area.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

#### Members of Public Involvement:

In the situation that risks are identified that scope of work can influence or pose a risk to members of the public, method statements and detail risk assessment to be conducted by the contractor to address measures to prevent any member of public exposed to risk of being injured during the project. This includes if any public road, railway line or crossings or water environment have to be crossed during work activity.

**Possible public industrial interference can occur by local community seeking employment once construction activities are known.**

#### ACCESS CONTROL AND SITE SPECIFIC INDUCTIONS

Access of *Contractor* personnel, visitors and all plant and equipment will be managed by or aligned to the **Northern Cape Grid** control Procedure, and directed by the security management team on site. The environment of the construction site is a high risk area.

*Contractor* shall ensure that every employee working on site attends an Eskom induction and shall comply to the following requirements below before induction takes place:


- Client safety inductions are done prior commencement of any work. The *Contractor* needs to arrange for safety induction training with Eskom Project Manager at least 24 hrs before work commence on site.
- The *Contractor* shall arrange their own transport when sending employees to attend medicals/ inductions.
- Copy of valid certificate of fitness/ proof of medical attendance to be available on the date of induction.
- No late attendance shall be tolerated at all times once induction arrangements have been made.
- Any worker employed during work commencement will undergo safety induction prior work and records of training recorded in safety file

With regards to the above, failure by the *Contractor* to meet the requirements will result in Eskom inductions been cancelled and the *Contractor* will have to re-book. On completion of the Eskom **induction**, the *Contractor* shall ensure that the responsible supervisor/ manager sign the induction form and records to be kept in the safety file.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

The *Contractor* shall also ensure that all employees, visitors and Client personnel before entering the site, attend a *Contractor's* site specific induction outlining their policies and procedures. On completion of the *Contractor* induction the *Contractor* shall ensure proof of attendance is available and kept on record.

Where the Principle Contractor are in need of security to save guard material for project and it is not included in the Eskom contractual agreement, to provide and make provision for own security services for project by the Principle Contractor.

Access to Lines to be arranged via the Lines and Servitude Supervisor and AME to work site and the following must be submitted and/or done:

- Identification Documentation
- List of employees as per contractors employment list for project
- Induction Training done for all employees

### Visitors to Site

Visitors to the site at Hydra SS shall be required to undergo a *Contractors* Visitors induction and comply with the *Contractor's* and Client's site specific safety requirements. 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 construction work, of any nature.


#### 3.23.1 Site roads and Traffic Management

1. When planning, sufficient areas must be allocated for parking of construction vehicles and mobile equipment's as well as roadways for ease of manoeuvrability of these vehicles.
2. Some towers are not easily accessible due to heavy corrosion; the Contractor will need to plan how to transport material, workers safely by drafting SWP. Upon completion of refurbishment, the Contractor must rehabilitate site before leaving.
3. Sufficient width roads to be provided and adequate space is to be allowed for large vehicles traversing the sites.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

4. At **Hydra SS**, traffic and vehicle movement will be adhered to and parking of vehicles, **reverse parking rule where practical and no risks present**, and equipment only allowed at designated areas during the project. No unauthorised vehicle movement within the High Voltage environment is permitted.

### What is a traffic violation?

A traffic infringement occur when one contravenes a known road traffic regulation or a road traffic sign as stipulated in the National Road Traffic Act (Act No. 93 of 1996) Regulations and its Amendments.

These include but not limited the following:

.

Driver of motor vehicle to be licensed.

No person shall drive a motor vehicle on a public road:

Except under the authority and in accordance with the conditions of a license issued to him or her unless he or she keeps such license or document or any other prescribed authorisation with him or her in the vehicle.( "Chapter IV, Section 12(a) and (b)) of the National Road Traffic Act (Act No. 93 of 1996).

Chapter V (Section 42 (1, 2 and 3) of the National Road Traffic Act (No. 93 of 1996) stipulates that

- "No person shall operate a motor vehicle which is not in a roadworthy condition on a public road.
- No person shall operate a motor vehicle on a public road unless the requirements in respect of a certification of roadworthiness contemplated in subsection (4) in relation to such motor vehicle are complied with, and except in accordance with the conditions of such certification or roadworthiness.
- No person shall operate a motor vehicle on a public road unless the requirements in respect of a roadworthy certificate contemplated in subsection (4) in relation to such motor vehicle are complied with, and except in accordance with the conditions of such roadworthy certificate".

### **3.23.2 Construction vehicle safety**


1. It is the responsibility of the driver to ensure:

a. Their passengers wear seat belts whilst the vehicle is in motion.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

- 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 drivers or operators may text, talk on cell phones or two way radios whilst driving, unless a hands free kit is used.
3. All drivers of construction vehicles are to have valid medical fitness certificates.
4. Each Project site that is enclosed by demarcation will have system/ process to manage vehicle access to site.
5. Contractor must maintain their vehicles in a roadworthy condition and a vehicle license must be valid at all times.
6. 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
7. 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.
8. 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.

### 3.23.3 Lifting and Loading

All lifting machinery and equipment shall be according to applicable legal requirements, operating manuals, manufacturer's specifications and the Contractor's procedure for the use/ operating of lifting machinery and equipment.


The following shall be adhered to at all times on site but not limited to:

- Lifting machinery being used shall be operated by competent employees who are appointed in writing.
- All lifting machinery and equipment test certificates and operators competency certificates shall be kept with the operator/ supervisor at all times and on site.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

- All lifting machinery and equipment that are available for use on site shall be kept on register and all defective equipment (including expired test certificates) shall not be used on site until all applicable processes are complied with.
- No lifting operations shall take place during inclement weather conditions and where it poses a threat to the health and safety of employees at the works area. This shall also be determined by both Contractor and Client personnel.
- Guide ropes shall be used at all times when lifting practises are taking place


### 3.24 Housekeeping and Order

1. All contractors shall maintain a high standard of housekeeping within their sites and vehicles for the duration of the 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.
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 principal 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 principal 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 principal contractor.
9. The principal contractor shall carry out regular safety/housekeeping inspections (at least weekly) to ensure maintenance of satisfactory standards. The principal

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

contractor shall document the results of each inspection and shall maintain records for viewing.

### 3.24.1 Stacking and Storage / Stockpiling of Materials

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.
3. Correct shelf stacking must be carried out, heavy and bulky on the bottom, light and small on top.

### 3.25 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: Construction 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.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

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.
11. Barricading visual signs should be visible from approaching directions

### 3.26 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 SHE 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.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

7. Where defective tools and equipment's are identified, such tools and equipment shall be removed out of site immediately, locked away 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.

### 3.26.1 Hand tools

1. All hand tools (hammers, chisels, spanners, etc.) must be recorded on a register and inspected by the construction supervisor on a monthly basis as well as by users prior to use.
2. Tools with sharp points in tool boxes must be protected with a cover.
3. All files and similar tools must be fitted with handles.
4. No make shift tools are permissible on the project.


### 3.27 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. Non-slip devices must be in good condition and no paint to be on wooden ladders
6. 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.
7. Employees using climbing irons shall be suitably trained in the use, care and maintenance of such climbing irons.
8. When using climbing irons, the appropriate rope grab fall prevention system shall be used.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

9. The correct fall protection equipment shall be worn and used whilst climbing up, working from and climbing down ladders.
10. The appropriate head protection, with chin strap shall be worn by employees working from a ladder or with climbing irons.
11. 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 SHE files.

### 3.28 Scaffolding

1. Scaffolding use shall conform to the requirements of CR 14, Eskom procedure 32-418 and used in terms of GSR 6.
2. The requirements for using a scaffold platform shall be determined by the work at heights risk assessment.
3. All scaffolding that will be used shall conform to the SANS standard 10085 and the requirements of CR 16 shall be carried out.
4. Scaffolding shall be erected and inspected by the competent personnel.
5. The appropriate training for scaffold users shall be conducted prior to climbing on to the scaffold.
6. The correct fall protection equipment shall be worn and used whilst climbing up, working from and climbing down the scaffolds.
7. A detailed inspection of all scaffolding shall be conducted monthly by a competent person and every time prior to climbing by employees using such scaffolding. The inspection check lists must be filed in the site SHE files.

### 3.29 Auditing


#### 3.29.1 Approval and compliance of principal contractor SHE plan

The Contractor's SHE Plan will be audited against compliance checklist so as to verify compliance to the requirements of the Eskom SHE specifications. Once there is compliance only then will the principal contractors SHE plan be approved by the project manager or an appointed Eskom contract custodian. The implementation of the SHE Plan shall be

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

assessed / audited by Eskom personnel on a regular basis. This will include physical conditions evaluation.

### 3.29.2 Eskom SHE audits

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

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

There will be monthly audits conducted by Eskom on the principal 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 Principal Contractor and appointed contractor. Refer to section on "Work Stoppage" in this SHE Specification.

### 3.29.3 Contractor audits

Principal Contractors are required to **conduct internal audits** on both their employees and their appointed contractors on the implementation of their SHE 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 principal contractor a copy of the audit report shall be submitted to the appointed contractor within 7 days of the audit.

#### 3.29.3.1 Legal Compliance Audits "3<sup>rd</sup> Party Audits "

Legal Audits will be done on Principal Contractor for legal compliance by the Department of Employment and Labour (DeL) due to DEL permit for construction work issued for the specific project unannounced and at various intervals.


### 3.30 Smoking

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

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

**Due to the dry grass, very long in certain areas, environment on the premises, fire hazard is present and wind situation, no smoking should take place outside designated or identified areas, and Fire precaution should always be taken.**

### 3.31 Cellular Phones

The national requirements regarding the use of cellular phones must be observed, in particular when driving and or operating mobile equipment and or machinery.

### 3.32 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.

#### 3.32.1 Medicals


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

1. Principal 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. In order 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.
3. Medical fitness certificates shall be renewed annually for employees who are working on site. This shall be maintained until completion of the contract.
4. The Principal Contractor must ensure that his / her employees and appointed contractor employees have undergone pre-entry medical examination before starting work on the contract.
5. The principal contractor shall provide a documented process for managing those employees who are issued with a conditional certificate of fitness.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

### 3.33 Working at Heights

#### 3.33.1 General Requirements

Wherever reasonably practicable, preference is given to the performance of work at ground level as opposed to the elevated position. Where work at 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 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.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

**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.

### **Barriers, Barricading and Excavations**

Barriers/ barricading, excavations, trenches and floor openings shall be aligned with OHS Act 85 of 1993, Construction Regulation 13 and applicable legislation. Where there is a risk of a person falling into an open excavation/ trench/ working along an edge, the Contractor shall manage and provide suitable barrier/barricading/edge/restrict access protection equipment. A procedure in this regard shall be developed by the Contractor and forwarded to Eskom management team for acceptance.

The Contractor shall comply with the following, but not limited to:

- No plastic danger tape shall be used as a barrier/ barricade where there is a possibility of falling from heights or into an open excavation/ trench.
- Barriers/ barricading that are erected either for permanent or temporary use shall be of a durable/ solid material which can withstand various inclement weather conditions on site, e.g. strong winds, hail storms, etc.
- Signage that is placed within that area for safety awareness shall be in line with SANS requirements and applicable legislation.
- Management shall ensure that all underground services are identified before any excavation work take place.
- Working within Eskom control rooms and cable trench covers are removed, where barricading is a challenge to apply by means of "shark-netting", the contractor will have restricted access to area of work by means of notices, signs, barrier tape to indicate if trenches are open during work and to restrict access for non-authorised people by contractor to the work area.

### **Dismantling Work / Demolition work of old equipment and structures**


Where dismantling, wreck, break, pull down or knock down of a structure or part thereof by way of manual labour, machinery, or the use of explosives a competent person to be appointed in writing to supervise and control all demolition work.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

Appointed Construction Manager to ensure prior Dismantling / Demolition work is done a risk assessment on specific task is performed and the correct safe working procedure / method statement for dismantling work based on task at hand is used and done accordingly.

### 3.34 Risk Assessments

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 an organisation 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.

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.


### 3.35 Structures - CR11

There must be a structure inspector appointed for inspections on structures once structures are assembled and or demolished for ensuring structure safety as per design and safety of climbers. Records of inspections and safe declaration to be recorded and available on safety file.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

### 3.36 Bulk Mixing Plants CR 20(1)

There must be a competent person appointed for the usage of a bulk mixing plant and approved by the bulk mixing plant designer after erection of such plant for the purpose of bulk concrete mixing on site.

### 3.37 Cranes – CR22

There must be a competent person appointed for the usage of cranes. Risk Assessment and method statements to be developed and applied for operating, training of operator in line with size of cranes to be operated and permit for operating available on safety file. Operator medical fitness for specific crane must be current and available on safety file.

### 3.38 Safe Work Procedures and Practices / Safe Operating

There must be written safe work procedures for all activities, the safe work procedures must be aligned with the risk assessments and scope of work.


### 3.39 Personal Protective Equipment Requirements

1. The Principal 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.
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.
4. Where there are unusual instances where particular activities require additional type of PPE, then a risk assessment must be conducted where such PPE requirements will be identified and the issuing be carried out.
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.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

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, then high visibility vests shall be worn.

### 3.40 Incident Investigation

All incidents shall be investigated in terms of **OHS Act General Administrative Regulations 8 and 9, using Eskom Procedure 32-95 as a reference**, and where injuries as contemplated in sections 24 and 25 have been sustained, be reported to the Department of Labour.

Contractors shall use the standard **General Administrative Regulation Annexure 1 “Recording of an Incident”** form for all incident investigation reports. 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.

### 3.41 Explosives Regulations (GNR 109 of Jan 2003)

Principal Contractor will not do any blasting work on this project, if required the Explosive Regulations will apply and only with the authorised permission from Anglo America Mine authorities and approval of the compliance to the Explosive Regulations.

When blasting activities takes place near the construction work of the project, the Mine authorities will inform the Principal Contractor upfront and no work will take place close or close proximately of blasting work for mine activities.

### 3.42 Working near public roads


Any construction work or work to be performed near any public road or crossing any public road, the National road authorities to be informed prior any work to be done and all if required, permits or authorisation to be obtained (SANRAL).

The local municipality traffic agency affected to be involvement for the specific area to be notified and arrangements to be made for safe traffic movement.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

Road traffic management plan to be approved by local authorities for road closure and safe traffic control. Road traffic plan to include and not limited to, days of closure, work activities for road closure, risk assessment for activities regarding road closure, mitigating plans, and approved to have minimum disruption on public traffic movement for road closure.

### 3.43 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 practical. The contractor must familiarise themselves with the Eskom emergency response plan and procedure. Periodic emergency drills must be undertaken to test the effectiveness of the plan. This must be recorded and provided on request.


### 3.44 Non-Conformance and Compliance

1. Any non-compliance to any health and safety requirement in this SHE specification is subject to discipline in terms of the Eskom Procurement and Supply Management Procedure.
2. Principal 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 non-conformances issued, in not doing so; any recommendations made may not be implemented.
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 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.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

### 3.45 SHE File

1. A SHE file means a file or other record in permanent form, containing the information about the safety and health management system during construction and all information relating to the post-construction phase after handover to the client, so that the client can maintain the works in a healthy and safe way.
2. All contractors are required to keep a SHE 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 SHE file shall be maintained by all the contractors on their construction sites and shall be available on request for audit and inspection purposes.
3. The SHE file shall consist of the requirements in terms of the project's safety specification, the contractor's safety and health plans.
4. The sequence of filing the documentation must be kept in the same sequence as listed in this SHE specification and the SHE 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 construction work/project, the principal contractor must hand over a consolidated health and safety file to the project manager.** The principal contractor must also hand over all drawings, designs, lists of materials used, and other applicable information about the completed structure, as well as the list of subcontractors, the agreement, and the type of work completed.
7. In case where the project is extended, should the documentation in the SHE 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.


### 3.46 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.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

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.

### 3.47 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.

#### 3.47.1 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.

#### 3.47.2 Night work


When night work is to be performed, 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 tool box 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.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		

### 3.47.3 Overtime

When overtime is required to be performed, the appointed contractors shall inform the principal contractor of such action. The principal 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.

### 3.48 Omissions from Safety and Health Requirements Specification

By drawing up this SHE specification Eskom has endeavoured to address the most critical aspects relating to SHE 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 SHE plan and inform Eskom of such issues when signing the contract.

### 3.49 Contract Sign-Off

On completion of the project, all appointed contractors shall close out their project documentation; SHE files and forwards such to the principal contractor. The principal contractor shall likewise close out his/her project documentation and SHE files and forward such to the Eskom project manager.


## 4. Acceptance

Nil.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
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## 5. Revisions


Date	Rev.	Compiler	Remarks
19 August 2016	0	D Pelesane	This provides the initial SHE specification requirements that must be met by the relevant contractors who have been awarded a contract for the work to be performed for Eskom.
15 July 2020	1	Peter Tomlinson	Inclusion of Corona virus on safe execution of project

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
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	<b>Construction work Safety File Handover</b>	240-101201174	Rev 1
		No:	

## Construction Work Site: Comprehensive Safety File Handover on completion of construction work CR7 (1) (e)

**Contract /Project Number:**

### PROJECT SCOPE OF WORK

- Install a fire detection system in each stand-alone protection kiosk at Hydra MTS.
- Wire the system to the power distribution board and fire and air conditioner alarm panel.
- Ensure that the smoke alarm/fire alarm is marshalled to the ERTU and communicated to control.
- The smoke/fire alarm should be marshalled together with the over/temperature alarm for system reliability.

## HANDOVER OF HEALTH AND SAFETY FILE INFORMATION BY CONTRACTOR TO ESKOM

### Introduction


- For the purpose of Eskom's asset and asset information management strategies and the administration of its construction projects, it is required that project record information is strictly monitored, recorded, collected and archived by Eskom. Construction Regulations 7 (1) (e) hand over a consolidated health and safety file to client upon completion of the construction work.

### Health & Safety File

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
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- Upon the completion of a construction project it is required that the Health & Safety File compiled by the contractor, under both the legislative requirements of the Construction Regulations be handed over to the client.
- The Health & Safety File are expected to have been prepared and updated throughout the duration of the project.
- A hardcopy format shall be handed over to Eskom.
- Please use this Handover Form (ref **240-73198174**) for the purposes of this formal process.


### Handover of the Health & Safety File

- The Construction Regulations 7 (b) requires the contractor to compile a Health & Safety File and Eskom requests handover to the Client at the end of the construction phase.
- At the end of the construction phase, Construction Regulations 7 (e), the Health and Safety File, along with all records of all drawings, designs, materials used and other similar information concerning the completed structure, other required project record information, should be delivered to the respective Eskom Project Manager within two weeks of the date of Practical Completion of the project.
- In addition to the documentation, Construction Regulations 7 (f), information include and make available a comprehensive and updated list of all the contractors on site accountable to the principal contractor, the agreements between the parties and the type of work being done, here to refer to a safety file of the contractor.
- It is expected that only one Handover should be required for the complete set of information comprising the Health & Safety File.
- All information handed over to Eskom at the arranged meeting will be signed for using this Hand over Form (ref....), one per project.
- The Contractor shall be responsible for accurately completing the Handover Form (ref ....) prior to the delivery of the Health & Safety File.
- The Handover Form shall be signed by the Contractor and Eskom to acknowledge handover and receipt of the Health & Safety File.
- The safety file information to be handed over is subjected to a hand over safety file audit to ensure compliance.

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	<b>SAFETY SPECIFICATION</b>	Template Identifier	240-73416879	Rev	2
		Document Identifier		Rev	1
		Effective Date	20 February 2016		
		Review Date	February 2021		


<b>PRINCIPAL CONTRACTOR PROJECT MANAGER</b>	<b>Client Project/Safety Manager:</b>
Name:	Name:
Physical Address:	Work Site Address:
Telephone No.:	Telephone No.:
Fax No.:	Fax No.:

<b>Project Starting Date:</b>	DATE:																								
<b>Project Completion Date:</b>	DATE:																								
<b>Comments:</b>	DATE:																								
<b>Approved Safety file contents hand over :</b>	<table border="1"> <thead> <tr> <th>YES</th> <th>NO</th> <th>DATE:</th> </tr> </thead> <tbody> <tr><td>1.Safety Plan</td><td></td><td></td></tr> <tr><td>2.Method Statements</td><td></td><td></td></tr> <tr><td>3.Risk Assessments</td><td></td><td></td></tr> <tr><td>4.Audits Done on file</td><td></td><td></td></tr> <tr><td>5.Legislative Appointments</td><td></td><td></td></tr> <tr><td>6.Drawings</td><td></td><td></td></tr> <tr><td>7.All other relevant information regarding the project</td><td></td><td></td></tr> </tbody> </table>	YES	NO	DATE:	1.Safety Plan			2.Method Statements			3.Risk Assessments			4.Audits Done on file			5.Legislative Appointments			6.Drawings			7.All other relevant information regarding the project		
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**Contractor Safety Manager  
received:**

.....  
PRINT NAME

.....  
SIGNATURE

.....  
DATE

**Contractor: *Project Manager***

.....  
PRINT NAME

.....  
SIGNATURE

.....  
DATE

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