	<b>Fundamentals of Power System Production Simulation</b>	<b>Template Identifier</b>	<b>240-73419711</b>	<b>Rev</b>	<b>2</b>
		<b>Document Identifier</b>	<b>342-578</b>	<b>Rev</b>	<b>1</b>
		<b>Effective Date</b>	<b>20 February 2016</b>		
		<b>Review Date</b>	<b>February 2020</b>		

**Project Name: Fundamentals of Power System Production Simulation**

**Project Address: Cnr Power and Refinery Road**

**Germiston**

**14001**

**Scope of the project: Fundamentals of Power System Production Simulation**

**Eskom Chief Technologist**

**Name: Vaughan Smith**

**Eskom's Health and Safety Manager**

**Name: *Nozipho Zuma***


**Eskom's Procurement Manager**

**Name: Busi Mtungwa**

**Public**

When downloaded from the document management system, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

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>Fundamentals of Power System Production Simulation</b>	<b>Template Identifier</b>	<b>240-73419711</b>	<b>Rev</b>	<b>2</b>
		<b>Document Identifier</b>	<b>342-578</b>	<b>Rev</b>	<b>1</b>
		<b>Effective Date</b>	<b>20 February 2016</b>		
		<b>Review Date</b>	<b>February 2020</b>		


## Content

	<b>Page</b>
1. Introduction.....	3
2. Supporting Clauses.....	3
2.1 Scope .....	3
2.1.1 Purpose.....	3
2.1.2 Applicability .....	4
2.2 Normative/Informative References .....	4
2.2.1 Normative .....	4
2.2.2 Informative.....	4
2.3 Definitions .....	4
2.4 Abbreviations.....	7
2.5 Related/Supporting Documents .....	8
3. Specification.....	8
3.1 Scope of work.....	8
3.2 Legal Compliance.....	8
3.2.1 Section 37(2) (Legal) Agreement.....	8
3.2.2 Hazardous work by children (Child Labour).....	9
3.3 Eskom Requirements.....	10
3.4 Occupational Health, Hygiene and Rehabilitation .....	10
3.5 Appointments .....	11
3.6 Roles and Responsibilities .....	11
3.7 Risk Assessments .....	11
3.8 Incident Investigation .....	12
3.9 Emergency Management .....	12
4. Acceptance.....	13
5. Revisions .....	13

### Public

When downloaded from the document management system, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

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>Fundamentals of Power System Production Simulation</b>	<b>Template Identifier</b>	<b>240-73419711</b>	<b>Rev</b>	<b>2</b>
		<b>Document Identifier</b>	<b>342-578</b>	<b>Rev</b>	<b>1</b>
		<b>Effective Date</b>	<b>20 February 2016</b>		
		<b>Review Date</b>	<b>February 2020</b>		

## 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 National Control Complex's minimum requirements which are required to be met for the specific contract and for the duration of 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 they conform to.**

Eskom 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.

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

**Note 2:** In terms of Eskom requirements, a section of this professional contract falls within the requirements of the OHS Act.

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 National Control Complex 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 provided a standardised approach to the compilation of SHE specifications throughout Eskom for contracts and standard and NEC 3 contracts

### Public

When downloaded from the document management system, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

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>Fundamentals of Power System Production Simulation</b>	<b>Template Identifier</b>	<b>240-73419711</b>	<b>Rev</b>	<b>2</b>	
		<b>Document Identifier</b>	<b>342-578</b>	<b>Rev</b>	<b>1</b>	
		<b>Effective Date</b>	<b>20 February 2016</b>			
		<b>Review Date</b>	<b>February 2020</b>			

### 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] 32-37 Eskom Substance Abuse Procedure.
- [6] National Key Point Act 102 of 1980

#### 2.2.2 Informative

- [1] 32-726 Mandatory SHE Requirements for Eskom Procurement and Supply Chain Management
- [2] 240-62196227 Eskom Life Saving Rules
- [3] Tobacco Products Control Act 83 of 1993 (Updated 2011.05.19)
- [4] SANS 1186 Symbolic Safety Signs
- [5] Constitution of the Republic of South Africa No 108 of 1996
- [6] 32-95 Eskom Procedure Manual for Performing Occupational Health & Safety Management & Environmental Management: Conducting EH&S Incident Management.


### 2.3 Definitions

Definition	Explanation
<b>Appointed contractor</b>	Means a contractor appointed by the Eskom in writing

### Public

When downloaded from the document management system, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

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>Fundamentals of Power System Production Simulation</b>	<b>Template Identifier</b>	<b>240-73419711</b>	<b>Rev</b>	<b>2</b>
		<b>Document Identifier</b>	<b>342-578</b>	<b>Rev</b>	<b>1</b>
		<b>Effective Date</b>	<b>20 February 2016</b>		
		<b>Review Date</b>	<b>February 2020</b>		

Definition	Explanation
<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>Client</b>	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 – includes appointed contractor</b>	means an employer as defined in section 1 of the Act who performs contract work and includes contractors
<b>Consultant</b>	means a person providing professional advice
<b>Duty of care to the environment</b>	(32-136) anybody who causes or has caused or may cause significant pollution or degradation of the environment must take reasonable measures to prevent such pollution or degradation from occurring, continuing, or recurring. If such harm to the environment is authorised by law or cannot reasonably be avoided or stopped, such person must minimise and rectify such pollution or degradation of the environment
<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>Eskom requirements</b>	Eskom requirements flowing from directives, policies, standards, procedures, specifications, work instructions, guidelines, or manuals
<b>Hazard</b>	(OHS Act) means a source of, or exposure to, danger

### Public

When downloaded from the document management system, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

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>Fundamentals of Power System Production Simulation</b>	<b>Template Identifier</b>	<b>240-73419711</b>	<b>Rev</b>	<b>2</b>
		<b>Document Identifier</b>	<b>342-578</b>	<b>Rev</b>	<b>1</b>
		<b>Effective Date</b>	<b>20 February 2016</b>		
		<b>Review Date</b>	<b>February 2020</b>		

Definition	Explanation
<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 plan</b>	(OHS Act) means a site, activity or project specific document plan in accordance with the client's health and safety specifications.
<b>Health and safety specification</b>	(OHS Act) means a site, activity or project specific document prepared by the client pertaining to all health and safety requirements related to specified work.
<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>Medical certificate of fitness</b>	(OHS Act) means a certificate specific to the work to be performed and issued by an occupational health practitioner in the form of Annexure 3 of the construction regulations.
<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 or 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
<b>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

**Public**

When downloaded from the document management system, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

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>Fundamentals of Power System Production Simulation</b>	<b>Template Identifier</b>	<b>240-73419711</b>	<b>Rev</b>	<b>2</b>
		<b>Document Identifier</b>	<b>342-578</b>	<b>Rev</b>	<b>1</b>
		<b>Effective Date</b>	<b>20 February 2016</b>		
		<b>Review Date</b>	<b>February 2020</b>		

Definition	Explanation
<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, 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>Task</b>	(34-227) a segment of work that requires a set of specific and distinct actions for its completion
<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.


## 2.4 Abbreviations

Abbreviation	Description
<b>BU</b>	Business Unit
<b>CE</b>	Chief Executive
<b>COID Act</b>	Compensation for Occupational Injuries and Diseases Act
<b>DoL</b>	Department of Labour ( Inspection and Enforcement services – Provincial office)
<b>EP</b>	Emergency Preparedness
<b>EAP</b>	Employee Assistance Program
<b>ERW</b>	Environmental Regulations for Workplaces
<b>GAR</b>	General Administrative Regulations
<b>GSR</b>	General Safety Regulations
<b>OHS Act</b>	Occupational Health and Safety Act and Regulations, 85 of 1993

### Public

When downloaded from the document management system, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

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>Fundamentals of Power System Production Simulation</b>	<b>Template Identifier</b>	<b>240-73419711</b>	<b>Rev</b>	<b>2</b>
		<b>Document Identifier</b>	<b>342-578</b>	<b>Rev</b>	<b>1</b>
		<b>Effective Date</b>	<b>20 February 2016</b>		
		<b>Review Date</b>	<b>February 2020</b>		

Abbreviation	Description
SABS	South African Bureau Standard
SANS	South African National Standard
NCC	National Control Complex

## 2.5 Related/Supporting Documents

- [1] Eskom OHS Act section 37 (2) agreement (to be completed by the contract responsible manager)

## 3. Specification

### 3.1 Scope of work

Conceptual training on the fundamentals of production simulation.

- 1.1. Unit commitment problem fundamentals: - Generator basics, production constraints.
- 1.2. Uncertainty in unit commitment problems: - hydro, pump storage , batteries, renewable generation and other storages.
- 1.3. Generation availability:- Maintenance and generation scheduling, including levelised reserves, load and performance uncertainty.
- 1.4. Generation variability: - stochastic processes for Wind and Solar.
- 1.5. Unit commitment problem: Formulation of the mixed- integer mathematical equivalent.
- 1.6. Introduction to simulation phases
- 1.7. Value dispatch assessment, market operation assessment, and how they relate to post-dispatch evaluation.
- 1.8. Practical sessions

**Note:** The contractor who will be awarded this contract will be known as the “contractor” and any contractor appointed by the 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 contractor at the time of awarding the contract. The contractor must ensure that a section 37(2) agreement is compiled between the contractor and all their appointed contractors for the contract.

### Public

When downloaded from the document management system, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

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>Fundamentals of Power System Production Simulation</b>	<b>Template Identifier</b>	<b>240-73419711</b>	<b>Rev</b>	<b>2</b>
		<b>Document Identifier</b>	<b>342-578</b>	<b>Rev</b>	<b>1</b>
		<b>Effective Date</b>	<b>20 February 2016</b>		
		<b>Review Date</b>	<b>February 2020</b>		

The original copy of the section 37(2) agreement must be retained by the contractor and a copy retained by the responsible manager.

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

### 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
  - 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 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 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.
- Compensation for Occupational Injuries and Diseases Act.
- National Key Point Act 102 of 1980

## Public

When downloaded from the document management system, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

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>Fundamentals of Power System Production Simulation</b>	<b>Template Identifier</b>	<b>240-73419711</b>	<b>Rev</b>	<b>2</b>
		<b>Document Identifier</b>	<b>342-578</b>	<b>Rev</b>	<b>1</b>
		<b>Effective Date</b>	<b>20 February 2016</b>		
		<b>Review Date</b>	<b>February 2020</b>		

### 3.3 Eskom Requirements

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

#### 3.3.1 Appointment of a contractor

The contractor will be appointed by Eskom on the awarding of the contract and will be responsible and accountable for all legislative and Eskom requirements for the duration of the contract.

**Note:** Copies of contractor appointments must be kept in the respective SHE file.

#### 3.3.2 SHE policy

A SHE policy is a statement of intent and a commitment by the organisation's 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 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 all the contract SHE files and as an annexure the SHE Plans.

#### 3.3.3 COID

The 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 (LoGS) from such commissioner. The obligation lies with the contractors to ensure that the LoGS remain valid throughout the contract period. A copy of the LoGS must be filed in the entire contract SHE files and as an annexure the SHE Plans.

### 3.4 Occupational Health, Hygiene and Rehabilitation

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


#### 3.4.1 Medicals

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

### Public

When downloaded from the document management system, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

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>Fundamentals of Power System Production Simulation</b>	<b>Template Identifier</b>	<b>240-73419711</b>	<b>Rev</b>	<b>2</b>
		<b>Document Identifier</b>	<b>342-578</b>	<b>Rev</b>	<b>1</b>
		<b>Effective Date</b>	<b>20 February 2016</b>		
		<b>Review Date</b>	<b>February 2020</b>		

1. Contractors must ensure that their and their appointed contractors 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 person job specification (profile), which must indicate the description of work, list of hazards and potential occupational exposure limits, physical hazards and required physical attributes.
3. For employees working on the contract, medical fitness certificates shall be renewed as per person job risk. This shall be maintained until completion of the contract.
4. The contractor must ensure that his / her employees have undergone pre-entry medical examination before starting work on the contract, should it be for longer than three (3) days.
5. The contractor shall provide a documented process for managing those employees who are issued with a conditional certificate of fitness.

### 3.5 Appointments

For the duration of the contract, the contractor and all appointed contractors shall appoint competent employees who will meet the requirements of the OHS Act. Where 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: Fire Fighter and Evacuation warden, First Aider, 16(2) appointment.

### 3.6 Roles and Responsibilities

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


### 3.7 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 what hazards to the health and safety or persons are attached 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:

## Public

When downloaded from the document management system, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

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>Fundamentals of Power System Production Simulation</b>	<b>Template Identifier</b>	<b>240-73419711</b>	<b>Rev</b>	<b>2</b>
		<b>Document Identifier</b>	<b>342-578</b>	<b>Rev</b>	<b>1</b>
		<b>Effective Date</b>	<b>20 February 2016</b>		
		<b>Review Date</b>	<b>February 2020</b>		

- 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. Prior to start of work, risk assessments on every job / task are ideal 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. In particular, if a job / task is extended over a day or halted due to inclement weather.

### 3.8 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, not only being a legal requirement, is to establish why and how the incident occurred, but to find out the real causes of the incident and to decide on precautionary measures that are required to address the causes to prevent any further recurrences of the same or similar incidents.

### 3.9 Emergency Management


1. 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 supplier must develop their own emergency response in their work premises. The Eskom employees attending training must be made aware of the emergency process and the assembly points. Where any office and or site is located within any Local Authorities area, then the plans must include their involvement. Emergency preparedness.

Periodic emergency drills must be undertaken to test the effectiveness of the plan. This must be recorded and provided on request.

## Public

When downloaded from the document management system, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

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>Fundamentals of Power System Production Simulation</b>	<b>Template Identifier</b>	<b>240-73419711</b>	<b>Rev</b>	<b>2</b>
		<b>Document Identifier</b>	<b>342-578</b>	<b>Rev</b>	<b>1</b>
		<b>Effective Date</b>	<b>20 February 2016</b>		
		<b>Review Date</b>	<b>February 2020</b>		

### 3.9.1 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. 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. Contract management must close out non-conformances issued, in not doing so, will not ensure that any recommendations made have been carried out and or 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 on by the contractor responsible manager to explain the non-conformance issued and what they intend doing to prevent a recurrence of the non-conformance.
6. Contractor failure to provide adequate PPE to their employees for the tasks being performed and/or to visitors and failure to enforce the wearing of such PPE will be viewed as a transgression of the legislative and Eskom requirement

## 4. Acceptance

Null.


## 5. Revisions

Date	Rev.	Compiler	Remarks
August 2015	0	F Poee	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.
July 2019	1	Zuma	SHE Specifications aligned to Fundamentals of Power System Production Simulation , in the

### Public

When downloaded from the document management system, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

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>Fundamentals of Power System Production Simulation</b>	<b>Template Identifier</b>	<b>240-73419711</b>	<b>Rev</b>	<b>2</b>
		<b>Document Identifier</b>	<b>342-578</b>	<b>Rev</b>	<b>1</b>
		<b>Effective Date</b>	<b>20 February 2016</b>		
		<b>Review Date</b>	<b>February 2020</b>		

Date	Rev.	Compiler	Remarks
			National Control building.

**Public**

When downloaded from the document management system, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

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.