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Project Name: SUPPLY AND DELIVERY OF VALVES DISCS AND DIAPHRAGMS TO KENDAL POWER STATION

Project Address: Kendal Power Station

Scope of the project: SUPPLY AND DELIVERY OF VALVE DISCS AND DIAPHRAGMS



Eskom Contract's Manager

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1. Introduction

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

This SHE specification is Eskom's minimum requirements which are required to be met for the Supply, Delivery and Off-loading of Sicon Idlers at Kendal Power Station contract and for the duration of the contract period by the contractor 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.

Although there are requirements listed in this specification that do not pertain directly to the Supply, Delivery and Off-loading of Sicon Idlers, the requirements are expect of a General Services contractor business to conform to. These requirements are in line with Eskom's Zero Harm value.

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.

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2.1.1 Purpose

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

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] 32-136 Eskom Contractor Health and Safety Requirements
- [7] 240-62196227 Eskom Life- saving Rules
- [8] 32-95 Eskom Environmental, Occupational Health and Safety Incident Management Procedure
- [9] 32-727 Eskom SHEQ Policy
- [10] 240-62946386 Eskom Vehicle and Driver Safety Management Procedure
- [11] 32-520 Eskom Risk assessment procedure
- [12] *1015696 Kendal Power Station Contractors SHE specification

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

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[5] Constitution of the Republic of South Africa No 108 of 1996

2.3 Definitions


Definition	Explanation
Appointed contractor	Means a contractor appointed by the principal contractor
Baseline risk assessment	(32-520) baseline operational risks refer to the health and safety risks associated with all standard processes and routine activities in the business
Client	Eskom representative (Internal – Asset Owner), also referred to as the contract administrator/custodian or agent or project manager (as defined in the contract). He/she is the person responsible for ensuring that the works or services are executed in terms of the contract, as well as adherence to legislation pertaining to the contract.
Competent person	(OHS Act) means any person having the knowledge, training, experience, and qualifications, specific to the work or task being performed, provided that, where appropriate, qualifications and training are registered in terms of the South African Qualifications Authority Act, 1995 (Act No. 58 of 1995)
Contractor – includes appointed contractor	means an employer as defined in section 1 of the Act who performs contract work and includes principal contractors
Consultant	means a person providing professional advice
Duty of care to the environment	(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
Employee	(OHS Act) means, subject to the provisions of subsection (2), any person who is employed by or works for an employer and who receives or is entitled to receive any remuneration or who works under the direction or supervision of an employer or any other person
Employer	(OHS Act) means, subject to the provisions of subsection (2), any person who employs or provides work for any person and remunerates that person or expressly or tacitly undertakes to remunerate him/her, but excludes a TES (ex labour broker) as defined in section 1(1) of the Labour Relations Act 1956 (Act No. 28 of 1956)
Eskom requirements	Eskom requirements flowing from directives, policies, standards, procedures, specifications, work instructions, guidelines, or manuals

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Definition	Explanation
Hazard	(OHS Act) means a source of, or exposure to, danger
Hazard identification	(OHS Act) means the identification and documenting of existing or expected hazards to the health and safety of persons, which are normally associated with the type of construction work being executed or to be executed
Health and safety file	(OHS Act) means a file or other record, containing the information in writing required by the construction regulations.
Health and safety plan	(OHS Act) means a site, activity or project specific document plan in accordance with the client's health and safety specifications.
Health and safety specification	(OHS Act) means a site, activity or project specific document prepared by the client pertaining to all health and safety requirements related to construction work.
Health and safety requirements	means comprehensive health and safety requirements for a contract, project, site, and scope of work. This specification is intended to ensure the health and safety of persons, both workers and the public, and the duty of care to the environment. The health and safety requirements must be specific to each contract, project, site, and scope of work
Medical certificate of fitness	(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.
Medical surveillance	(OHS Act) means a planned programme or periodic examination (which may include clinical examinations, biological monitoring, or medical tests) of employees by an occupational health practitioner or, in prescribed cases, by an occupational medicine practitioner
Method statement	(OHS Act) means a written document detailing the key activities to be performed in order to reduce, as reasonably as practicable, the hazards identified in any risk assessment
Organisation	may be defined as a group of individuals (large or small) that is cooperating under the direction of executive leadership in accomplishment of certain common objects
Pre-job meetings	(34-227) means a meeting that is held prior to the commencement of the day's work and that is attended by all the relevant employees associated with the work task

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Definition	Explanation
Principal contractor	(In the text of this document) Means an employer, as defined in section 1 of the OHS Act, who intends to tender for or has signed a contract with Eskom for services rendered.
Provincial director	(OHS Act) means the provincial director as defined in Regulation 1 of the General Administrative Regulations under the Act
Responsible Manager	Is a Manager of a department, section or operating/business unit who has been appointed as part of the Eskom delegation of authority process with the aim to assist the applicable 16(2) assigned person in executing his/her duties in terms of the Occupational Health and Safety Act
Risk assessment	(OHS Act) means a programme to determine any risk associated with any hazard at a construction site in order to identify the steps needed to be taken to remove, reduce, or control such hazard.
Site	(34-228) means an Eskom department, unit, complex, building, specific project, work site, or the site where agents, clients, principal contractors, contractors, suppliers, vendors, and service providers provide a service to Eskom, directly or indirectly
Service provider	any private person or legal entity that provides any service(s) to Eskom for compensation
Task	(34-227) a segment of work that requires a set of specific and distinct actions for its completion
Toolbox talks	(34-227) where the team leader, after conducting pre-task planning, shares all the tasks at hand and discusses task allocation, the identified risks, and the control measures with all his/her team members on site before commencing a specific task and documenting the agreed strategy. (This shall be done to ensure common understanding of the tasks, risks, and control measures required.)
The Act	(OHS Act) means the Occupational Health and Safety Act No. 85 of 1993, as amended, and the Regulations thereto
Visitor	any person visiting a workplace with the knowledge of, or under the supervision of, an employer.

2.4 Abbreviations

Abbreviation	Description
BU	Business Unit

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Abbreviation	Description
CE	Chief Executive
COID Act	Compensation for Occupational Injuries and Diseases Act
CR	Construction Regulations
DMR	Driven Machinery Regulations
DoL	Department of Labour (Inspection and Enforcement services – Provincial office)
EP	Emergency Preparedness
EAP	Employee Assistance Program
ERfW	Environmental Regulations for Workplaces
GAR	General Administrative Regulations
GSR	General Safety Regulations
HCS	Hazardous Chemical Substances
LDV	Light Delivery Vehicle
MSDS	Material Safety Data Sheets
NEMA	National Environmental Management Act
OHS Act	Occupational Health and Safety Act and Regulations, 85 of 1993
SABS	South African Bureau Standard
SANS	South African National Standard

2.5 Related/Supporting Documents


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

3. Supply and Delivery of Valve Discs and Diaphragms at Kendal Power Station.

3.1 Scope of work the Supply and Delivery of Valves Discs and Diaphragms to Kendal Power Station.

Material No.	Material description
0068405	DISC, VALVE: MATERIAL: BRS; DIMENSIONS: ID 30 X OD 47 X THK 16 MM; REFERENCE NO: 95070-224, UNK; BEST NO 1090020.24; ITEM NO 22.04.00; VACUUM BREAKER
0053792	DIAPHRAGM: TYPE: AIR HEATER; DIMENSIONS: ID 110 X OD 185 X THK 1 MM; MATERIAL: SS; REFERENCE NO: 1031-7901S110, UNK

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0040179	DIAPHRAGM: TYPE: PRESSURE; DIMENSIONS: ID 125 X OD 195 X THK 1 MM; MATERIAL: SS; SUPPL P/N: 1031/7901/5125; ON ID OUTLET FAN
0069694	DISC, VALVE: MATERIAL: STL; VALVE STYLE: BUTTERFLY; DIMENSIONS: DIA 150 MM; FIG NO: 990 C2E2; REFERENCE NO: FIG990C2E2, UNK; KEYSTONE ON WATER TREATMENT PLANT
0069688	DISC, VALVE: MATERIAL: SS; VALVE STYLE: BUTTERFLY; DIMENSIONS: DIA 200 MM; FIG NO: 1000 CEE2; KEYSTONE ON WATER TREATMENT PLANT
0069691	DISC, VALVE: MATERIAL: STL; VALVE STYLE: BUTTERFLY; DIMENSIONS: DIA 200 MM; FIG NO: 1000 CXE2; KEYSTONE ON WATER TREATMENT PLANT
0067388	DISC, VALVE: MATERIAL: STL; VALVE STYLE: GATE; DIMENSIONS: DIA 430 MM; VALVE SIZE: 400 MM; SUPPL P/N: 3/4/5/6; COMPLETE, FOR V.G.A. MAIN SUCTION
0068658	DISC, VALVE: MATERIAL: STL; VALVE STYLE: CHECK; DIMENSIONS: DIA 300 MM; MODEL NO: RSK280/20, UNK; SUPPL P/N: 415; 419; COMPLETE WITH PIN AND BUSH; FOR TURBINE AUXILLARY VALVES
0112929	DISC, VALVE: MATERIAL: STL; VALVE STYLE: BALL; DIMENSIONS: 565 MM; DRAWING NO: VXO 300 210 REV 1; UNIQUE SLIDE; FOR CHARGING VALVE
0067431	DISC, VALVE: MATERIAL: STL; VALVE STYLE: CHECK; DIMENSIONS: DIA 350 MM; DRAWING NO: 2020A REV 1; REFERENCE NO: 2020A746, UNK; DN350/310 PN64
0067415	DISC, VALVE: MATERIAL: STL; VALVE STYLE: GATE; DIMENSIONS: DIA 365 MM; VALVE SIZE: 350 MM; PRESSURE RATING: PN25; REFERENCE NO: 2-200839-00-4, UNK; SUPPL P/N: 2055/3.1; SPHERICAL SEGMENT
0068664	DISC, VALVE: MATERIAL: STL; VALVE STYLE: CHECK; DIMENSIONS: DIA 420 MM; VALVE SIZE: 400 MM; PRESSURE RATING: PN25; REFERENCE NO: 2-27391-00/3, UNK
0178188	DISC, VALVE: MATERIAL: STL; VALVE STYLE: CHECK; DIMENSIONS: DIA 475 MM; VALVE SIZE: 450 MM; PRESSURE RATING: 25 BAR
0069289	DISC, VALVE: MATERIAL: STL; DIMENSIONS: DIA 260 MM; SUPPL P/N: VSE2-25-300T350-I-22-142DISC; BALL/PIN FOR SAFETY
0178108	DISC, VALVE: MATERIAL: STL; VALVE STYLE: GATE; DIMENSIONS: DIA 370 MM; VALVE SIZE: 350 MM; PRESSURE RATING: 40 BAR
0067704	DISC, VALVE: MATERIAL: STL; DIMENSIONS: DIA (305 X 330) MM; VALVE SIZE: 500 MM; SUPPL P/N: 510573; PARALLEL SLIDE
0067706	DISC, VALVE: MATERIAL: STL; DIMENSIONS: DIA 370 MM; VALVE SIZE: 500 MM; SUPPL P/N: 510544; PARALLEL SLIDE

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0178107	DISC, VALVE: MATERIAL: STL; VALVE STYLE: GATE; DIMENSIONS: DIA 532 MM; VALVE SIZE: 500 MM; PRESSURE RATING: 40 BAR; REFERENCE NO: 2869-3-1, UNK; KPS
0067410	DISC, VALVE: MATERIAL: STL; VALVE STYLE: GATE; DIMENSIONS: DIA 530 MM; VALVE SIZE: 450 MM; PRESSURE RATING: PN25; DRAWING NO: 2-37381-00-4 REV 1; REFERENCE NO: 2042-3.1, UNK; WITH SPHERICAL SEGMENT
0068635	DISC, VALVE: MATERIAL: STL; VALVE STYLE: CHECK; DIMENSIONS: DIA 520 MM; VALVE SIZE: 500 MM; REFERENCE NO: 2-27393-00/3, UNK; DN500 PN40 STAAL-RSK
0068757	DISC, VALVE: MATERIAL: STL; DIMENSIONS: DIA 95 MM; DRAWING NO: MAN 7353-29540-5 REV 1; REFERENCE NO: A57B34D06, UNK; SUPPL P/N: 42-72AA001; COUPLING SPACER; LP BYPASS CONTROL
0068698	DISC, VALVE: MATERIAL: STL; DIMENSIONS: OD 65 MM; DRAWING NO: 7353-18040-5 REV 1; REFERENCE NO: A57A10G39, UNK; SUPPL P/N: MAA44-41AA001; COUPLING SPACER
0073934	DIAPHRAGM, VALVE: MATERIAL: RUBBER; VALVE SIZE: 70 MM; REFERENCE NO: 2N126902202, UNK; 657, UNK; KEY 2; FOR FISHER ACTUATOR
0073844	PLUG, VALVE: VALVE SIZE: 3 X 2 IN; MATERIAL: SS GR 316; REFERENCE NO: 1C9329-47602, UNK; INNER; TYPE 667
0066212	DIAPHRAGM: TYPE: GLAND STEAM SEALING SYSTEM; DRAWING NO: 7353-09916-2-10/30-05-00 REV 1; SUPPL P/N: 2R6376-0220; FOR MAIN TURBINE
0068423	DIAPHRAGM, VALVE: DRAWING NO: 73563-09903-2-09 REV 1; REFERENCE NO: 2N130902202, UNK; FOR GLAND STEAM SEALING SYSTEM MAIN TURBINE
0068765	DISC, VALVE: MATERIAL: SS; DIMENSIONS: ID 9 X OD 65 X THK 20 MM; DRAWING NO: 7353-28500-19 REV 1; SUPPL P/N: A00A57F88; IP CONTROLLER
0068699	DIAPHRAGM, VALVE: MATERIAL: RUBBER; DRAWING NO: 24-2702-94399-25-02 REV 1; REFERENCE NO: A56E40J94, UNK; BEST NR 10004703
0068711	DIAPHRAGM, ACTUATOR: TYPE: ACCUMULATOR; DRAWING NO: 7353-18220-248-01 REV 1; REFERENCE NO: A57H50H88, UNK; MAA11-41AA001, UNK; SBOZ10-A46-112-1-3, UNK; FOR HP/IP/LP TURBINE COMPACT VALVE
0068759	DIAPHRAGM: TYPE: ACCUMULATOR; DIMENSIONS: DIA 250 X THK 8 MM; MATERIAL: RUBBER; SUPPL P/N: A57H55A92

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0068693	DISC, VALVE: MATERIAL: STL; DIMENSIONS: SQ 25 X WD 12 MM; DRAWING NO: 7353-18000-20 REV 1; REFERENCE NO: A56K28C11, UNK; MAA11213141AA001, UNK; SUPPL P/N: A56K28C11; MAY 10 HP TURBINE STOP TYPE
0019897	DIAPHRAGM: TYPE: RUPTURE; DIMENSIONS: DIA 1 M; MATERIAL: SS GR 316 TE7; RATING: 2.06 BAR AT 120 DEG C; REFERENCE NO: 10940701C, UNK; HOV BT
0054550	DIAPHRAGM, VALVE: DIMENSIONS: DIA 167 X THK 1 MM; MATERIAL: MONEL; REFERENCE NO: PARTF, UNK
0067413	DIAPHRAGM, VALVE: DIMENSIONS: THK 8 MM; MATERIAL: RUBBER; VALVE SIZE: 25 MM; DRAWING NO: 2025A REV 1; SUPPL P/N: 44325/10; RATING 16 BAR
0067414	DIAPHRAGM, VALVE: DIMENSIONS: DIA 113 X THK 12 MM; MATERIAL: RUBBER; VALVE SIZE: 50 MM; DRAWING NO: 2025A REV 1; SUPPL P/N: 443; KSB BRAND ONLY; FOR USE WITH GLOBE VALVE PN16; TYPE SISTO 4; MANUFACTURER: ARF ARMATUREN-VERTRIEB; RATING: 16 BAR
0070457	DISC, VALVE: MATERIAL: SS; DIMENSIONS: ID 135 X OD 293 X THK 20 MM; DRAWING NO: X100/1865 REV 1; REFERENCE NO: LAB 41-42-43 AA002, UNK; SUPPL P/N: 295-630CA; TYPE RETAINER, FOR FEEDWATER CONTROL: LAB 41-42-43 AA002
0068317	DISC, VALVE: MATERIAL: STL; VALVE STYLE: GATE; DIMENSIONS: DIA 146 MM; DRAWING NO: 51 REV 1; SUPPL P/N: P95LR200PCRA; FOR PARALLEL SLIDE
0067172	DISC, VALVE: MATERIAL: STL; DIMENSIONS: DIA 120 MM; VALVE SIZE: 150 MM; SUPPL P/N: 0510520; FOR TYPE: P73EH; PARALLEL SLIDE
0067863	DISC, VALVE: MATERIAL: SS; DIMENSIONS: ID 5 X OD 25 X THK 6 MM; REFERENCE NO: 22640, UNK; SEAT FOR INTERMEDIATE PUMP NO:Q2/96/SS15C
0067206	DISC, VALVE: MATERIAL: INCONEL; DIMENSIONS: DIA 160 MM; VALVE SIZE: 6 IN; PRESSURE RATING: 4.83 MPA AT 315 DEG C; SUPPL P/N: 6240901; SAFETY; FOR USE WITH HOT REHEAT 1706-RR-WE4; TYPE: MALE
0067201	DISC, VALVE: REFERENCE NO: 6271010, UNK; FOR SAFETY DRUM VGY815
0067211	DISC, VALVE: MATERIAL: STL; DIMENSIONS: ID 30 X OD (47 X 65) X WD 48 MM; PRESSURE RATING: 19.58 MPA; SUPPL P/N: 6028801; SAFETY; FOR SUPER HEATER
0069216	DISC, VALVE: MATERIAL: STL; DIMENSIONS: DIA 57 MM; REFERENCE NO: 1218X9-35362, UNK; STAL; FOR SAFETY SR121370

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0069218	DISC, VALVE: MATERIAL: STL; DIMENSIONS: DIA 40 MM; REFERENCE NO: 1387X10-35362, UNK; STAL A10/11; FOR SAFETY SR121373
0067178	DISC, VALVE: MATERIAL: STL; VALVE STYLE: GATE; DIMENSIONS: DIA 128 MM; VALVE SIZE: 150 MM; FOR PARALLEL SLIDE TYPE P83EH
0067231	DISC, VALVE: MATERIAL: STL; VALVE STYLE: RELIEF; VALVE SIZE: 50 MM; ASSEMBLY FOR PRESSURE
0067708	DISC, VALVE: MATERIAL: STL; VALVE STYLE: PARALLEL SLIDE; DIMENSIONS: DIA 79 MM; VALVE SIZE: 80 MM; SUPPL P/N: 0510422; MALE
0067709	DISC, VALVE: MATERIAL: STL; DIMENSIONS: DIA 79 MM; VALVE SIZE: 80 MM; SUPPL P/N: 0520109; PARALLEL SLIDE, FEMALE
0067168	DISC, VALVE: MATERIAL: STL; DIMENSIONS: DIA 79 MM; VALVE SIZE: 80 MM; SUPPL P/N: 0520109; PARALLEL SLIDE, FEMALE
0067169	DISC, VALVE: MATERIAL: STL; DIMENSIONS: DIA 83 MM; VALVE SIZE: 100 MM; SUPPL P/N: 0510625; PARALLEL SLIDE; FEMALE
0067181	DISC, VALVE: MATERIAL: STL; DIMENSIONS: DIA 58 MM; VALVE SIZE: 80 MM; SUPPL P/N: P95VH; PARALLEL SLIDE; MALE
0067174	DISC, VALVE: MATERIAL: STL; DIMENSIONS: DIA 70 MM; VALVE SIZE: 100 MM; SUPPL P/N: P83DR110PFDC; PARALLEL SLIDE; MALE
0067175	DISC, VALVE: MATERIAL: STL; DIMENSIONS: DIA 70 MM; VALVE SIZE: 100 MM; SUPPL P/N: P83DR100PFDC; PARALLEL SLIDE; FEMALE
0067159	DISC, VALVE: MATERIAL: STL; DIMENSIONS: DIA 46 MM; VALVE SIZE: 65 MM; SUPPL P/N: 0510613; PARALLEL SLIDE; MALE
0067161	DISC, VALVE: MATERIAL: STL; DIMENSIONS: DIA 46 MM; VALVE SIZE: 65 MM; SUPPL P/N: 0520136; PARALLEL SLIDE; FEMALE
0067182	DISC, VALVE: MATERIAL: STL; DIMENSIONS: DIA 58 MM; VALVE SIZE: 80 MM; SUPPL P/N: P95VH; PARALLEL SLIDE; FEMALE
0067185	DISC, VALVE: MATERIAL: STL; DIMENSIONS: DIA 58 MM; VALVE SIZE: 65 MM; SUPPL P/N: 0510618; PARALLEL SLIDE; MALE
0067186	DISC, VALVE: MATERIAL: STL; DIMENSIONS: DIA 58 MM; VALVE SIZE: 65 MM; SUPPL P/N: 0520141; PARALLEL SLIDE; FEMALE
0219193	DISC, VALVE: MATERIAL: SS GR 316L; DIMENSIONS: DIA 83 MM; VALVE SIZE: 2 IN; PRESSURE RATING: 770 KPA; SAFETY; FOR USE WITH BOILER AIR RECEIVER; TYPE: BALL AND PIN
0068304	DISC, VALVE: VALVE STYLE: GATE; REFERENCE NO: 0510643, UNK; 0520156, UNK; SUPPL P/N: P95KR025NXDA; FEMALE MALE PARALLEL SLIDE
0067189	DISC, VALVE: MATERIAL: STL; VALVE SIZE: 20 MM; SUPPL P/N: 0510110;

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	PARALLEL SLIDE; MALE
0067716	DISC, VALVE: MATERIAL: STL; DIMENSIONS: DIA 44.5 X LG 26 MM; VALVE SIZE: 32 MM; SUPPL P/N: 0510109; PARALLEL SLIDE; MALE
0067715	DISC, VALVE: MATERIAL: STL; DIMENSIONS: DIA 41 MM; VALVE SIZE: 65 MM; SUPPL P/N: 0520134; PARALLEL SLIDE; FEMALE
0067714	DISC, VALVE: MATERIAL: STL; DIMENSIONS: DIA 41 MM; VALVE SIZE: 65 MM; SUPPL P/N: 0510612; PARALLEL SLIDE; MALE
0067198	DISC, VALVE: MATERIAL: STL; VALVE STYLE: CHECK; DIMENSIONS: DIA 46 MM; VALVE SIZE: 65 MM; PRESSURE RATING: STEAM 125 LB AT 300 DEG F; REFERENCE NO: F73KZ065NFDA - V-124, UNK; SWING TILTING
0067719	DISC, VALVE: MATERIAL: STL; DIMENSIONS: DIA 33.4 MM; VALVE SIZE: 32 MM; SUPPL P/N: 0520060; PARALLEL SLIDE; FOR HOPKINSON; FEMALE
0067718	DISC, VALVE: MATERIAL: SS; VALVE STYLE: GATE; DIMENSIONS: DIA 33.4 MM; VALVE SIZE: 32 MM; SUPPL P/N: 0510110; PARALLEL SLIDE TYPE: MALE
0067165	DISC, VALVE: MATERIAL: STL; DIMENSIONS: DIA 44 MM; VALVE SIZE: 80 MM; SUPPL P/N: 0520134; PARALLEL SLIDE; FEMALE
0067190	DISC, VALVE: MATERIAL: STL; DIMENSIONS: DIA 33.4 MM; VALVE SIZE: 20 MM; REFERENCE NO: 0520060, UNK; PARALLEL SLIDE; FEMALE
0067190	DISC, VALVE: MATERIAL: STL; DIMENSIONS: DIA 58 MM; VALVE SIZE: 80 MM; SUPPL P/N: 0520140; P95DH080PFDA; PARALLEL SLIDE; FEMALE
0069952	DISC, VALVE: MATERIAL: STL; DIMENSIONS: DIA 58 MM; VALVE SIZE: 80 MM; SUPPL P/N: 0520140; P95DH080PFDA; PARALLEL SLIDE; FEMALE
0069355	DISC, VALVE: REFERENCE NO: 0520142, UNK; FEMALE FOR BLOWDOWN; PARALLEL SLIDE TYPE: P73DH080PFDA
0069356	DISC, VALVE: MATERIAL: STL; DIMENSIONS: DIA 64 MM; VALVE SIZE: 80 MM; SUPPL P/N: 0510619; P73DH080PFDA; PARALLEL SLIDE; MALE
0069953	DISC, VALVE: MATERIAL: STL; DIMENSIONS: DIA 58 MM; VALVE SIZE: 80 MM; SUPPL P/N: 0510617; PARALLEL SLIDE; MALE
0069956	DISC, VALVE: MATERIAL: SS; VALVE STYLE: GATE; DIMENSIONS: DIA 80 MM; SUPPL P/N: 0510135; P95KH065PFDA; FEMALE FOR PARALLEL SLID
0069962	DISC, VALVE: MATERIAL: STL; VALVE STYLE: CHECK; DIMENSIONS: DIA 70 MM; REFERENCE NO: 0510779, UNK; F95KZ080NFDA, UNK; ASSEMBLY
0069266	DISC, VALVE: MATERIAL: STL; VALVE STYLE: CHECK; DIMENSIONS: DIA 24 MM; REFERENCE NO: VBS3-40-15-65, UNK; FOR NON RETURN

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0067845	DISC, VALVE: MATERIAL: NI ALLOY; VALVE STYLE: GATE; VALVE SIZE: 25 X 20 MM; PRESSURE RATING: 420 BAR; REFERENCE NO: Y30029630, UNK; HOPKINSON UNIFLOW SLIDE (20/25-M880420) A 912 A
0067408	DISC, VALVE: MATERIAL: STL; VALVE STYLE: GATE; DIMENSIONS: DIA 230 MM; VALVE SIZE: 200 MM; PRESSURE RATING: PN40; REFERENCE NO: 2-27384-00-4, UNK; SUPPL P/N: 2045-3.1; WITH BALL, SPHERICAL SEGMENT WASHER AND GROOVED DOWEL PIN
0068647	DISC, VALVE: MATERIAL: STL; VALVE STYLE: GATE; DIMENSIONS: OD 177 MM; VALVE SIZE: 150 MM; PRESSURE RATING: 25 BAR; DRAWING NO: 2-27378-00/4 REV 1; WITH BALL, SPHERICAL SEGMENT, WASHER AND DOWEL PIN, PN40
0068645	DISC, VALVE: MATERIAL: STL; VALVE STYLE: CHECK; DIMENSIONS: DIA 264 MM; VALVE SIZE: 250 MM; PRESSURE RATING: 10 BAR; DRAWING NO: 2-27428-00/3 REV 1; FOR DN250 PN10 STAAL-RSK SIZE: 264MM
0068649	DISC, VALVE: MATERIAL: STL; VALVE STYLE: CHECK; DIMENSIONS: OD 178 MM; VALVE SIZE: 150 MM; PRESSURE RATING: 25 BAR; DRAWING NO: 2-27389-00/3 REV 1; STAAL-RSK; PRESSURE RATING 40 BAR; DN150; PN40
0067399	DISC, VALVE: MATERIAL: STL; VALVE STYLE: CHECK; DIMENSIONS: DIA 122 MM; VALVE SIZE: 125 MM; PRESSURE RATING: 40 BAR; DRAWING NO: 2-27389-00-3 REV 1; REFERENCE NO: 2061-3RSK, UNK; SUPPL P/N: 2061-3; RSK STAAL
0067406	DISC, VALVE: MATERIAL: STL; VALVE STYLE: CHECK; DIMENSIONS: DIA 122 MM; VALVE SIZE: 80 MM; PRESSURE RATING: 25 BAR; REFERENCE NO: 2061-3, UNK; SUPPL P/N: 2-27389-00-3; RSK STAAL; PRESSURE RATING: 40BAR
0067407	DISC, VALVE: MATERIAL: STL; VALVE STYLE: CHECK; DIMENSIONS: DIA 122 MM; VALVE SIZE: 80 MM; PRESSURE RATING: 40 BAR; DRAWING NO: 2061-3 REV 1; REFERENCE NO: 2-27389-00-3, UNK; RSK STAAL
0069279	DISC, VALVE: MATERIAL: STL; DIMENSIONS: DIA 120 MM; REFERENCE NO: VSR2-16-150N200II22142DISC, UNK; BALL AND PIN
0067390	DISC, VALVE: MATERIAL: STL; VALVE STYLE: GATE; DIMENSIONS: OD 102 MM; VALVE SIZE: 80 MM; PRESSURE RATING: 40 BAR; DRAWING NO: 2-27382-00-4 REV 1; REFERENCE NO: 2043/3.1, UNK; WITH BALL, SPHERICAL SEGMENTWASHER AND GROOVED DOWEL PIN, KPS STAAL, SUPPLIER: INTERVALVE/VAG/AINSWORTH ENG
0069270	DISC, VALVE: MATERIAL: STL; VALVE STYLE: RELIEF; DIMENSIONS: DIA 76 MM; OEM P/N: VRS2-100-150K150III-22-12, OEM: GE STEAM POWER SERVICE; BALL/PIN FOR SAFETY

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0069270	
0069284	DISC, VALVE: MATERIAL: STL; DIMENSIONS: DIA 66 MM; REFERENCE NO: VSR2-16-100J150I22-123-14, UNK; BALL AND PIN
0069274	DISC, VALVE: MATERIAL: STL; VALVE STYLE: RELIEF; DIMENSIONS: DIA 103 MM; REFERENCE NO: VSR2-40-150M200II-2214DISC, UNK; VALL AND PIN FOR SAFETY
0147587	DIAPHRAGM: TYPE: POSITIONER; DIMENSIONS: ID 48 X THK 1 MM; MATERIAL: RUBBER; REFERENCE NO: 250086-7, UNK; STI FOR C18 MX3 COMPRESSOR
0054547	DIAPHRAGM, REGULATOR: DIMENSIONS: OD 38 X THK 1.5 MM; MATERIAL: RUBBER; FOR CHLORINE ANALYSERS
0068122	DIAPHRAGM, VALVE: DIMENSIONS: SQ 67 X THK 8 MM; MATERIAL: RUBBER GR Q; VALVE SIZE: 25 MM; FOR VALVE TYPE A; ON WATER PLANT
0068124	DIAPHRAGM, VALVE: DIMENSIONS: SQ 45 X THK 8 MM; MATERIAL: RUBBER GR Q; VALVE SIZE: 15 MM; FOR VALVE TYPE A; ON WATER PLANT
0126004	DIAPHRAGM: TYPE: RELAY; DIMENSIONS: WD 39 X LG 45 X THK 1 MM; MATERIAL: RUBBER; REFERENCE NO: 615625, UNK; FOR PNEUMATIC CONTROL
0067820	DIAPHRAGM, VALVE: MATERIAL: RUBBER GR Q; VALVE SIZE: 1 IN; REFERENCE NO: QQ1, UNK; FOR VALVE FLANGE ON BOILER
0068123	DIAPHRAGM, VALVE: DIMENSIONS: SQ 57 X THK 8 MM; MATERIAL: RUBBER GR Q; VALVE SIZE: 20 MM; REFERENCE NO: A20, UNK; FOR VALVE TYPE A; ON WATER PLANT
0068121	DIAPHRAGM, VALVE: DIMENSIONS: SQ 90 X THK 8 MM; MATERIAL: RUBBER GR Q; VALVE SIZE: 40 MM; REFERENCE NO: A40, UNK; FOR VALVE TYPE A; ON WATER PLANT
0067822	VDIAPHRAGM, VALVE: DIMENSIONS: SQ 150 X THK 8 MM; MATERIAL: RUBBER GR Q; VALVE SIZE: 3 IN; REFERENCE NO: QQ3, UNK; FOR VALVE TYPE: KB; FOR SAUNDERS VALVE FLANGED; ON BOILER VALVES; FOR AIR
0068120	DIAPHRAGM, VALVE: DIMENSIONS: SQ 105 X THK 8 MM; MATERIAL: RUBBER GR Q; VALVE SIZE: 50 MM; FOR VALVE TYPE A
0067821	DIAPHRAGM, VALVE: MATERIAL: RUBBER GR C; VALVE SIZE: 1 IN; REFERENCE NO: CC1", UNK; FOR VALVE SCREW TYPE ON BOILER
0067819	DIAPHRAGM, VALVE: DIMENSIONS: SQ 45 X THK 4 MM; MATERIAL: RUBBER GR Q; VALVE SIZE: 1/2 IN; REFERENCE NO: QQ1/2, UNK; FOR VALVE FLANGE; ON BOILER VALVES

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0220354	DIAPHRAGM, ACTUATOR: DIMENSIONS: DIA 145 X THK 4 MM; MATERIAL: RUBBER; PRESSURE RATING: 650 KPA; ACTUATOR SIZE: 145 MM; SUPPL P/N: 9141121604; FOR 5 WAY VALVE ROUND ACTUATOR
0068130	DIAPHRAGM, VALVE: DIMENSIONS: SQ 45 X THK 6 MM; MATERIAL: RUBBER GR 214/300; VALVE SIZE: 15 MM; FOR TYPE A; ON WATER PLANT
0068127	DIAPHRAGM, VALVE: DIMENSIONS: SQ 90 X THK 6 MM; MATERIAL: RUBBER GR 214/300; VALVE SIZE: 40 MM; FOR TYPE A
0063344	DIAPHRAGM, VALVE: DIMENSIONS: DIA 330 X THK 3 MM; MATERIAL: NITRILE; VALVE SIZE: 150 MM; REFERENCE NO: 2E670002202, UNK; 34/40 FOR VALVE
0067376	DIAPHRAGM, VALVE: DIMENSIONS: 45 X 50 MM; MATERIAL: NITRITE; VALVE SIZE: 150 MM; DRAWING NO: SK11243-2 REV 1; MODEL NO: 2E859502202, UNK; FOR FISCHER 657 EAD; RATING: 40 BAR
0067725	DIAPHRAGM, ACTUATOR: DIMENSIONS: SQ 145 X THK 4 MM; MATERIAL: RUBBER; PRESSURE RATING: 650 KPA; SUPPL P/N: 9121655401
0154187	DIAPHRAGM: DIMENSIONS: DIA 42 X THK 0.012 MM; MATERIAL: RUBBER; REFERENCE NO: N2086EG, UNK; FOR PRESSURE CONTROLLER AMETEK 40
0154186	DIAPHRAGM, REGULATOR: DIMENSIONS: DIA 42 X THK 0.012 MM; MATERIAL: RUBBER; REFERENCE NO: H6306L, UNK; FOR PRESSURE CONTROLLER AMETEK 40
0054541	DIAPHRAGM: DIMENSIONS: DIA 85 X THK 3 MM; MATERIAL: RUBBER; SUPPL P/N: 13055A
0068620	DIAPHRAGM, VALVE: DIMENSIONS: ID 200 X OD 320 X THK 3 MM; MATERIAL: RUBBER; REFERENCE NO: 7305-18330/100-03, UNK; A57H35G07, UNK; VT56057-01; FOR CAB ASSEMBLY
0067419	DIAPHRAGM, VALVE: MATERIAL: NITRITE; VALVE SIZE: 200 MM; REFERENCE NO: 2N126902202, UNK; 70/87; PN10, 657-ED, RATING: 10 BAR
0098442	DIAPHRAGM: TYPE: SHEET; DIMENSIONS: DIA 3.2 MM; MATERIAL: RUBBER

Note: Contractor shall refer to NEC for detailed detail scope of works.

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

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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 manager.

A copy of 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

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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 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.

3.3 Eskom Requirements

All contractors shall, before commencement of the charter ensure 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 principal 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.

3.3.2 Appointment of sub-contractors

The principal contractor may appoint contractors to assist in the contract. All appointments shall be done in writing and will form part of the SHE plan that is required to be submitted to Eskom. Adequate training and instruction must be given to the appointees and the principal contractor must ensure that all the appointed contractors understand their roles and responsibilities.


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

3.3.3 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 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

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copy of the policy must be filed in all the contract SHE files and as an annexure the SHE Plans.

3.3.4 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 (LoGS) from such commissioner. The obligation lies with the contractors to ensure that the LoGS remains 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.

3.5 Personnel Health / Hygiene Facilities

3.5.1 Ablution facilities and other Facilities

At the workplace, where applicable, all contractors must attempt to provide sufficient portable ablution facilities for the employees. Such facilities must be serviced regularly. Where the contractor will be utilizing the Clients facilities, it is expected that the facilities will be maintained in a clean and hygienic manner, fit for use by the next person. The contractor shall ensure that portable drinking water is available for their employees and is free of charge.

3.6 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.


3.6.1 Medicals

Note1: Eskom will only accept medical surveillances conducted by an Occupational Health Practitioner who holds a qualification in occupational health.

Note 2: Medicals that are submitted must be authenticated by a stamp from the medical centre that rendered the service

1. Principle contractors must ensure that they 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 annually. This shall be maintained until completion of the contract.
4. The Principal Contractor must ensure that his / her employees and sub-contractor employees have undergone pre-entry medical examination before starting work on the contract, should it be for longer than three (3) days.

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5. The principal contractor shall provide a documented process for managing those employees who are issued with a conditional certificate of fitness.

3.6.2 Health and wellness HIV / Aids

Contractors shall include details of their Employee Health and Wellness Programme as part of their Health and Safety Plan which should include awareness training, support for contracted illness and sharing knowledge with members of the public in the immediate work environment.

3.7 Manual Handling of Materials

1. It is essential that an employer has conducted a suitable and sufficient risk assessment and tried to reduce any risks associated with manual handling.
2. Employees should also participate in the risk assessment process, attend any relevant manual handling training and implement good manual handling techniques whenever they are carrying out such tasks.
3. When handling material, ergonomic factors shall be considered to prevent related incidents


3.8 Vehicle/ mobile plant and road safety

1. All vehicles shall be roadworthy at all times. Un-roadworthy vehicles will be impounded. Contractors shall adhere to the vehicle and driver safety Management procedure 240-62946386.
2. Each driver on site must be licensed for the class of vehicle that they operate and must be in possession of valid driver's license while operating a vehicle.
3. No passengers are allowed to be transported in the back of the bakkie, truck or lorry. No passengers will be allowed to sit on the sides of lorries or pick-ups.
4. Persons will not be allowed to ride in the bucket of front-end loaders, or as passengers on dumpers, tractors, cranes, etc.
5. A general speed restriction of 60 km/hr will be adhered to for the ring road and a speed restriction of 40 km/hr for other roads within the power station's roads.
6. All traffic signs and markings shall be adhered to. An effective warning device shall be used when the vehicles are operating (e.g. reverse warning device).

3.9 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 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

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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:

Appointments	Recommended minimum training /proof of competency
OHS Act: section 16(1) employer (n/a)	OHS act and regulation ,COIDA, Incident investigation, HIRA ,legal liability
OHS act: section 16(2) employer	OHS act and regulations, COIDA, construction regulations, Incident investigation, HIRA, legal liability
GSR 3(4) First aiders	First Aid Level 2
Firefighting equipment inspector	Basic fire extinguishing handling course /firefighting course
GAR 9(2) Incident/accident investigator	RCAT / incident investigation
Section 8 risk assessor	Hazard Identification and risk assessment
Vehicle and mobile plant Operator / inspector	Driver's license, operator certificate

3.10 Roles and Responsibilities

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

3.11 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 of 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:

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

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Risk assessments are required to be maintained. This means that significant changes to a process or activity, or any new process or activity should be subjected to a risk assessment and that if new hazards come to light during the work process, then these should also be subjected to risk assessments. Risk assessments for long-term processes should be periodically reviewed and updated. Method statements or written safe work procedures are an effective method as information and record of the way jobs / tasks must be performed. 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.

3.13 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.


3.14 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.
2. The contractor must familiarise themselves with the Eskom Kendal Power Station emergency response plan and procedure.
3. Periodic emergency drills must be undertaken to test the effectiveness of the plan. This must be recorded and provided on request.
4. The contractor evacuation and emergency preparedness plan shall align to Eskom Kendal Power Station emergency preparedness plan *1015702.

3.15 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.

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3. The procedure for the issuing and closing off 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 requirements.

4. Acceptance

- Carol Lepphoto
- Andrew Motsuki
- Buyelwa Basholo

5. Revisions

Date	Rev.	Compiler	Remarks
November 2022	0	Wesley Adam	Project SHE specification minimum requirements that must be met by the relevant contractor who have been awarded with the provision of Supplying and Delivering of Valve Disc and Diaphragms to Kendal Power Station.

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