Eskom	Scope of Work	Medupi Power Station

Title: **Medupi Power Station Unit 4 Repair, Replace and / or Reconstruction of Damaged Roller Shutter Doors, Masonry Walls and Relevant Doors due to Generator Explosion**

Document Identifier:

Alternative Reference Number:

Area of Applicability: **Medupi Power Station**

Functional Area: **Engineering**

Revision: **01**

Total Pages: **15**

Next Review Date: **N/A**

Disclosure Classification: **Controlled Disclosure**

Compiled by	Functional Responsibility	Authorized by
M van Niekerk	**L Zuma**	**J Mkhatshwa**
Civil Engineer	**Auxiliary Engineering Manager**	**Engineering Group Manager**
Date: 09/11/2022	Date: 11/11/2022	Date: 2022-11-11

Content

1. Introduction

Background

On Sunday the 8th of August 2021, the Generator of Unit 4 Medupi power station exploded causing damage to the turbine hall and surrounding structures. Doors and windows of multiple structures were damaged due to the impact of the explosion. The roof sheeting of the turbine hall structure blew off due to the explosion leaving the entire turbine hall area for Unit 4 as well as sections of Units 3 and 5 exposed to the elements.

Description of the turbine hall structure

The Turbine Hall houses the main steam turbine centreline and generator systems as well as auxiliaries such as lube oil rooms, excitation room, HP-, IP- and LP turbines, LP bypass and other plant sub-systems.

The turbine hall is a steel framed and cladded structure, which supports the 9m level turbine and generator floor, as well as LP bypass system equipment.

Description of the Auxiliary Bay building structure

The structure is located between the Turbine Hall and Boiler Plant. The Auxiliary Bay structure houses the areas/rooms outlined below, which provides auxiliary service to both the Turbine Hall as well as the Boiler Plant;

- Cable tunnels and Low Pressure Systems pipelines at the basement (-5.5m level)
- Switchgear rooms, passenger lift and access stairs at the ground level (0m level)
- Cable tunnels at the 6m,9m and 13.6m levels
- Heating, Ventilation and Air Conditioning (HVAC) plant equipment at 20.6m level
- Electrical, Control and Instrumentation Workshop, offices, switchgear rooms and battery rooms at 9m level
- Offices, control rooms and switchgear rooms at 16m level

Other affected structures

The Air Cooled Condenser Auxiliary Building structure as well as the Condensate Polishing Plant building located on the Eastern side of the Turbine Hall also suffered damages due to the effects of the explosion.

2. Supporting Clauses

2.1 Scope

The scope of work is mostly limited to the Medupi Power Station Unit 4, more specifically the Turbine Hall and the interface wall between the Turbine Hall and Auxiliary Bay. Upon visual inspection it was noted that majority of the civil infrastructure damage caused by the explosion is on the Turbine Hall Side of the Auxiliary Bay.

The scope of this document is to replace, repair and / or reconstruct all the damaged roller shutter doors, brickwork and doors (including fire rated doors and relevant ironmongery) on the Turbine Hall Side of the Auxiliary Bay of Unit 4, as well as the Air Cooled Condenser Auxiliary Building and Condensate Polishing Plant building.

All auxiliary services previously fixed to the damaged masonry walls that has been removed or temporarily supported shall be re-installed / attached to the newly reconstructed masonry walls.

The contractor shall also notify the Employer of any damages to roller shutter doors, masonry walls and/or doors that has been observed/identified outside of the Unit 4 boundaries.

2.1.1 Purpose

The Purpose of this document is to replace, repair and / or reconstruct all the damaged roller shutter doors, brickwork and doors (including fire rated doors and relevant ironmongery) on the Turbine Hall Side of the Auxiliary Bay of unit 4, as well as the Air Cooled Condenser Auxiliary Building and Condensate Polishing Plant building in order to provide safe and secure working conditions for all mechanical and electrical repairs to be conducted for Unit 4 to return to service.

2.1.2 Applicability

This document shall only apply to Medupi Power Station.

2.1.3 Effective date

This document will be effective from the date of authorization

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] Construction Regulations (2014)

[2] 200-46362 Site Quality Assurance, Control and verification work instruction

[3] OHS ACT Occupational Health and Safety Act, 85 of 1993.

[4] 200-207219 Medupi Power Station Safety, Health and Environmental Specification

[5] 200-35208 Environmental Management Plan Rev 2

[6] 32-727 Safety, Health, Environment and Quality (SHEQ) Policy/Procedure

[7] 32-245 Eskom Waste Management Standard

[8] 32-421 Eskom Life Saving Rules

[9] 200-1679 Project Quality Plan

[10] 240-53114002 Engineering Change Management Procedure

[11] 240-53113685 Design Review Procedure

[12] 240-56364545 Structural Design and Engineering Standard

[13] ISO 9001 Quality Management Systems

[14] 200-1689 Medupi Quality Specifications

[15] Occupational Health and Safety Act (85 of 1993)

[16] 200-1689 Medupi Quality Specification

2.2.2 Informative

[1] 200-26680 Medupi Power Station Architectural Technical Specifications

[2] 84CIVL053 Medupi Power Station Specification for Structural Concrete

[3] 84CIVIL007 Medupi Power Station Architectural Design Specification

[4] 200-1689 Medupi Quality Specification

[5] 240-165756572 Medupi Power Station Unit 4 Generator Explosion Structure Visual Inspection Report

2.3 Definitions

Definition	Explanation
Contractor	Service provider contracted to provide a specific service to Eskom, Medupi Power Station.
Employer	Eskom, or Eskom Medupi Power Station or representative
Construction	Means any physical activity on the site involved in the erection of a structure, cladding, external finish, formwork, fixture, fitting of service installation and the unloading of plant, machinery, materials or the like.
Construction Supervision	Is the process of ensuring that the project is built in accordance with the requirements of the contract documents, approved plans, specifications, building codes, building code standards and applicable local codes and ordinances
Detailed Design	Is the phase where the design is refined and plans, specifications and estimates are created; Detailed design will include outputs such as 2D and 3D models, cost build up estimates, procurement plans etc. This phase is where the full cost of the project is identified

2.4 Abbreviations

Abbreviation	Explanation
BMS	Building Management System
HVAC	Heating Ventilation and Air-Conditioning
ISO	International Standards Organization
CCTV	Closed-Circuit Television
SANS	South African National Standards

2.5 Roles and Responsibilities

- **Auxiliary Engineering** – responsible for project specifications and subsequent design reviews
- **Project Management Department** – Initiation, Planning, Definition, Execution and Project Control
- **Contractor/Consultant** – construction and construction supervision

2.6 Process for Monitoring

- Project Control Plan.
- Design Change Process to be followed as 240-53114002 Engineering Change Management Procedure

3. Requirements

3.1 General Requirement

a) Where this document is not clear regarding any works to be performed, it is the *Contractor's* responsibility to seek clarity from the Employer's engineering representatives. The *Contractor* will only act upon confirmation by receipt of an Engineering Instruction via the Project Manager. Incorrectly positioned items, or incorrect work done (where Engineering Instructions were not issued) will be moved / removed / replaced / changed / reinstalled by the *Contractor* at his cost

b) All referenced Eskom standards will be made available to the *Contractor*.

c) The *Contractor* shall ensure all personnel adheres to the Eskom Life Saving Rules.

3.2 Health and Safety Requirements

The *Contractor* shall ensure:

a) Compliance with all requirements of the Occupational Health and Safety Act no 85 of 1993 and its regulations so as to ensure the health and safety of persons carrying out the Works.

b) All employees are medically, physical and psychologically fit to perform the Works.

c) All employees undergo the relevant training as per their function requirement

d) Compliance with Eskom's SHE policy, procedures, standards, guidelines, specifications and site regulations. Employees shall have a valid medical certificate of fitness specific to the work to be performed

e) Employees are informed of hazards identified in the risk assessment before commencement of Works. The Method Statement shall also be communicated to the employees on this work activity before commencement of Works.

f) The emergency rescue plan shall also be communicated to personnel undertaking the Works

g) All safety and health related incidents around site or working areas and threats that pose a danger to one's life or health are immediately reported

h) Sufficient health and safety information as well as resources are made available

i) All employees working at heights must be in possession of valid training certificates.

j) All employees undergo safety induction on-site

k) All power tools will be inspected as and when required.

l) Prescribed PPE for the specified Works shall be worn at all times. The provision of PPE shall be the responsibility of the Contractor.

m) Correct site drawings are obtained and communicated to the employees undertaking the Works

3.3 Environmental Requirements

The contractor shall ensure:

- Appoint a qualified SHE officer with the relevant environmental qualifications and experience with regards to this SOW.
- The contractor shall comply with the Projects' Environmental Management Plan (EMPr), Environmental Authorisations, Licences, permits and other related requirements.

Minimum requirements for compliance by contractors:

- Ensure that the Method Statements are submitted to the ECO/Station Environmental Manager for approval before any work is undertaken. Any lack of adherence to this will be considered as non-compliance to the specifications.
- Ensure that any instructions issued by the Engineer, on the advice of the ECO/Station Environmental Manager, are adhered to.
- Contractor must maintain the environmental legal register.
- Ensure that there must be communication tabled in the form of a report at each site meeting, which will document all incidents that have occurred during the period before the site meeting.
- Ensure that a register is kept at the site office, which lists all the transgressions issued by the ECO/Station Environmental Manager.
- Ensure that a register of all public complaints is maintained.
- Ensure that all employees, including those of sub-contractors receive training before the commencement of construction in order that they can constructively contribute towards the successful implementation of the environmental requirements of the Contract.
- Ensure compliance with the environmental requirements, relating to the provision of adequate resources for the implementation and monitoring of the requisite environmental controls.
- Compile an Environmental monitoring plan outlining all the construction activities, associated environmental impacts and how they will be mitigated.
- Ensure that the project pricing makes provision for environmental costs.
- Contractor shall attach a company waste management plan including the typical waste inventory and templates used for keeping waste records.
- Include environmental considerations as an item on the agenda of the monthly site meetings.
- Compile and implement the necessary Method Statements; and Undertake environmental awareness training of all site staff during the commencement of each Contract, with regular refreshers for the duration of the Contract.
- Appropriate measures shall be undertaken to minimise the generation of dust from work activities
- The work area is kept clean, tidy and free of waster/rubbish. Waste shall be disposed of in designated bins
- Management and disposal of waste generate through the demolishing activities will be the responsibility of the contractor

- Plant and machinery shall be equipped with drip trays. Oil refills for plant and machinery shall take place in designated areas.
- Ensure that the environmental authorizations required in terms of National Environmental Management Act, 1998 (section 24) are sought prior to storage of dangerous goods, including petrol, diesel, liquid petroleum gas or paraffin, in containers with a combined capacity of:
    - More than 30m3 (30 000L) but less than 1000m3 (1ML) at any one location or site, GNR 386 (7)
    - More than 1000m3 (1 000 000 L or 1ML) at any one location or site, including the storage of one or more dangerous goods in a tank farm, GNR 387 {1(c)}.

3.3.1 Spillage of Hazardous Chemical Substances

- Any spillages that occur shall be treated in accordance with the requirements indicated on the MSDS.
- Identify appropriate storage areas for stockpiling of materials, storage of hydrocarbons and storage of hazardous substances and ensure that these areas are appropriately prepared for their purpose.
- Disposal of hazardous substances shall be done in terms of the relevant legal requirements.
- Limit spillage of hazardous substances or substances with the potential to cause contamination of the environment.
- Develop emergency protocols for dealing with spillages particularly where these pose a pollution risk or involve hazardous substances.
- Compile and implement the necessary Method Statements; and undertake environmental awareness training of all staff.

3.3.2 Fire hazard

The Contractor shall develop emergency protocols for dealing with fires, which may include a Fire Management Plan in accordance with the National Veld and Forest Fire Act (No 101 of 1998) and ensure that all staff is educated in fire prevention and will be held responsible to avoid the risk of fire. Firebreaks shall be created to prevent fires from spreading. No open fires are allowed on site. The contractor shall ensure that operations are in compliance with statutory requirements at all times. The Contractor Environmental Officer shall ensure that in areas with a high fire danger rating, staff are made aware thereof. Smoking shall be restricted to designated areas or shall not be allowed, particularly in areas that have a high fire danger rating.

Contractor shall ensure that adequate Fire Fighting equipment is available on site, particularly near hot work.

3.3.3 Waste

All waste generated shall be disposed of at a registered landfill site. A register of both hazardous and general waste shall be kept. A waste management plan shall be compiled before commencement of work. Records of waste disposal shall be kept and updated all the time. No waste, be it biodegradable or not, shall be left on site once work has ended.

Domestic and hazardous waste generated shall not be burned, buried, or disposed of on Eskom or Landowner property, but will be controlled and removed to a registered waste site on a regular basis (Daily / Weekly). The Principal Contractor and contractor working on site shall ensure that oil, fuel, and chemicals are confined to specific and secure areas throughout the construction period. These materials shall be stored in a bunted area with adequate containment for potential spills and leaks.

Waste may be collected by the relevant Municipality or alternatively taken by the Contractor to a registered landfill site. Where the Municipality does not have a weighbridge, the Contractor is responsible for obtaining a formal notification to this effect.

Contractors shall ensure that sufficient waste bins / containers, with lids are made available for waste control. The contractor shall comply with the requirements of NEM: Waste Act 59 of 2008.

Quantities of disposed waste shall be recorded and reported on a monthly basis. Set up system for regular waste removal to an approved facility and minimize waste by sorting wastes into recyclable and non-recyclable wastes;

Equipment maintenance and storage:

- Ensure that all plant is in good working order.
- Undertake maintenance within specified area (workshop); and use drip trays for all stationary or parked plant and when servicing equipment away from designated areas.

3.3.4 Material requirement

The use of any material or property belonging to any landowner shall not be permitted prior to arrangements with the relevant landowner. Written proof of such agreement shall be handed to project leader / co-coordinator for record keeping.

3.3.5 Dust and Noise

The Contractor shall monitor dust and noise caused by mobile equipment, generators and other equipment during construction. Factors such as wind can often affect the intensity to which these impacts are experienced.

To ensure that noise does not constitute a disturbance during construction activities, all construction works shall occur between specific working hours. This shall be stipulated in the contract.

Mitigation measures to be implemented as required / agreed upon with the project leader / environmental advisor.

Dust suppression measures shall be in place to reduce the dust caused by the movement of heavy vehicles and other contractor activities.

3.3.6 Environmental Incidents

All environmental incidents such as pollution (air, water, land, noise, etc.), bird kills, and animals killed, plants destroyed, public complaints etc. shall be reported to project leader and / or environmental advisor within 24 hours of its occurrence.

All environmental incidents occurring on site shall be recorded according to Eskom Environmental Incident Management Procedure 240-133087117, detailing how each incident was dealt with. Proof thereof must be kept in an incident register.

The Contractor shall be held liable for any infringement of any Environmental statutory requirements.

All environmental incidents are reported as guided by 32-95.

3.3.7 Water

Always implement the current project Water Use Licence

Should any pollution of the watercourse occur, the Department of Water Affairs and Forestry must be notified immediately.

Water usage on site shall be verified with the substations/power stations responsible person, the project leader / environmental advisor to ensure compliance with legislation. Borehole water shall be verified as suitable for human consumption. All incidents related to water contamination shall be reported within 24 hours. Records of water quantities abstracted should be kept.

Chemical toilets shall not be within close proximity of the drainage lines / ways.

3.3.8 Reporting and Governance

3.3.8.1 Weekly Inspection

Principal contractor conduct weekly inspection and keep report.

Weekly reports must form part of the monthly reports.

3.3.8.2 Monthly Reporting

Environmental Management reports to be submitted as per timelines determined and agreed upon by project Environmental department.

3.3.8.3 Emergency Coordinators Meeting

The Project Emergency coordinators meet on an agree basis to discuss emergency activities, changes on the acts and bylaws and any other feedback from activities conducted by the Employer on various Contractors as well as lessons learnt.

3.3.8.4 SHE Managers (Eskom and contractors) Meeting

The Project Site Management will host on a monthly basis a SHE Managers meeting in which all Contractors are invited to attend. The meeting discusses SHE performance, progress and improvement initiatives etc.

3.3.8.5 Contractors Environmental Meetings

Contractors Environmental Meetings are held at intervals as determined by project Environmental Department, such meetings are chaired by the project Environmental Manager and attended by the ECO, project Environmental Practitioners as well as designated environmental resources of all contractors.

Attendance registers shall be kept for all the health and safety meetings.

3.3.8.6 Environmental file

Environmental file including the following but not limited to must be approved by the client. Ensure the files is updated regularly.

- Comprehensive aspect and Impact register specific to the scope of works.
- SHE policy recently signed.
- Environmental management plan/that address all the potential environmental risks as per aspect and impact register. This includes: Waste Management plan, Hazardous chemical substances management plan, Water management plan etc.
- Method statements that include environmental impact and mitigations measures. Include all activities in sequence as per the project scope and aspect and impact register
    - Incident Management Procedure
    - Non-Conformance Procedure
    - Internal Auditing Procedure.

3.3.9 Environmental legislations and other requirements

- Ensure compliance to all relevant environmental legislations and other requirements
- Ensure compliance to the project available licences, authorisations and permits.
- Ensure that the legal register is maintained.

3.4 Construction Requirements

The Contractor shall ensure:

a) Personnel to conduct the Works are competent and shall have received the necessary training to carry out the Works.

b) Resources and tools required by personnel for executing Works are provided, and safe for use.

c) Employees are supervised.

d) Full responsibility and accountability shall be taken to ensure that all employees are competent and aware of all requirements needed to execute Works safely

e) Inspections are performed during Works and upon completion of Works in accordance with approved inspection and test plan.

f) Quality control is performed on Works

g) Before commencement of any Works, a risk assessment is performed to identify all risks and hazards to which persons may be exposed to.

h) That all work is performed in accordance with the Construction Regulations and listed Eskom and National specifications.

4. Scope of Works

4.1 Description of Required Works

The objective of this project is to replace, repair and / or reconstruct all the damaged roller shutter doors, brickwork and doors (including fire rated doors and relevant ironmongery) on the Turbine Hall Side of the Auxiliary Bay Unit 4 to ensure safe and secure working conditions for all personnel and equipment to be repaired for Unit 4 to return to service.

The boundaries of the required works will be strictly between Gridline 42 – 56 of Unit 4 Auxiliary Bay Building on the Turbine Hall (eastern) side, as well as the Air Cooled Condenser Auxiliary Building and Condensate Polishing Plant building, except if the contractor identifies any unsafe situation or damage at either of the adjoining Units or buildings that further requires urgent attention and falls within the scope described above.

The identification of damaged roller shutter doors, brickwork and doors (within the boundaries explained above) to be replaced, repaired and / or reconstructed shall be part of the contractors works. Most of the required masonry works are not accessible without specialised equipment or the construction of temporary scaffolding due to the shear hight.

The masonry walls, roller shutter doors, doors and auxiliary services identified to be replaced, repaired and / or reconstructed by the contractor will then be confirmed by the Employers engineering representative (utilising the ITP procedure) before the contractor continues with the works.

The contractor shall also notify the Employer of any damages to roller shutter doors, masonry walls and/or doors that has been observed/identified outside of the unit 4 boundaries.

4.2 Detail of Required Works

The contractor will be required to:

- Provide a method statement for the intended identified works before the replacement, repairs and / or reconstruction of all identified damaged roller shutter doors, masonry walls and doors commence, with specific reference to working at heights and relevant safety aspects.
- Reconstruct all the identified damaged / already demolished masonry walls of the Unit 4 Auxiliary Bay on the Turbine Hall side according to the “Approved for Construction” drawings provided by the client. Contractor to seek clarity from Employer’s engineering representatives where the scope is not clear, or when Contractor identifies damages that requires repairs outside of the above mentioned boundaries.
- Ensure all auxiliary systems that were wall mounted (site run), such as BMS systems, HVAC ducting, cable racks, fire alarms, small power fittings, CCTV cameras etc. are re-mounted / fixed to the reconstructed masonry walls as per design.
- Replace all damaged roller shutter doors and doors (including fire rated doors and relevant ironmongery) according to the “Approved for Construction” drawings provided by the client. Where required the contractor shall also repair or replace any damaged structural elements in order to ensure roller doors and doors (including fire rated doors) are as per design.
- Remove all rubble generated

The contractor must note that work will be conducted simultaneously with other related clean up, dismantling, removal, repair and replace activities by other contractors. Safety will therefore be of utmost importance. The contractor shall also take into consideration noise levels as well as dust that might be generated and mitigate as much as possible.

The contractor shall submit a method statement for approval of all works to be carried out before any activities will be allowed to commence. Risk Assessments, Safety Plans and Inspection Plans will, as a minimum, form part of the submission for approval.

5. Drawings

Drawing Number	Drawing Description
0.84/9761-SHEET 1	AUX BAY UNIT 4 LEVEL MINUS5.500 0.000 AND 6.600 FULL VIEW
0.84/9761-SHEET 2	AUX BAY UNIT 4 LEVEL 9.000 AND 13.600 FULL VIEW
0.84/9761-SHEET 3	AUX BAY UNIT 4 LEVEL 16.000 AND 20.600 FULL VIEW
0.84/9761-SHEET 4	AUX BAY UNIT 4 LEVEL MINUS5,500
0.84/9761-SHEET 5	AUX BAY UNIT 4 LEVEL 0.000
0.84/9761-SHEET 6	AUX BAY UNIT 4 LEVEL PLUS6.600
0.84/9761-SHEET 7	AUX BAY UNIT 4 LEVEL PLUS9.000
0.84/9761-SHEET 8	AUX BAY UNIT 4 LEVEL PLUS13.600
0.84/9761-SHEET 9	AUX BAY UNIT 4 LEVEL PLUS16.000
0.84/9761-SHEET 10	AUX BAY UNIT 4 LEVEL PLUS20.600
0.84/9761-SHEET 11	AUX BAY UNIT 4 SECTION J J EAST ELEVATION
0.84/9761-SHEET 12	AUX BAY UNIT 4 SECTION K K
0.84/9761-SHEET 13	AUX BAY UNIT 4 SECTION K K PORTION 1
0.84/9761-SHEET 14	AUX BAY UNIT 4 SECTION K K PORTION 2
0.84/9761-SHEET 15	AUX BAY UNIT 4 SECTION L L
0.84/9761-SHEET 16	AUX BAY UNIT 4 SECTION L L PORTION 1
0.84/9761-SHEET 17	AUX BAY UNIT 4 SECTION L L PORTION 2
0.84/9761-SHEET 21	AUX BAY UNIT 4 FINISHES SCHEDULE 1
0.84/9761-SHEET 22	AUX BAY UNIT 4 FINISHES SCHEDULE SPEC
0.84/9761-SHEET 23	AUX BAY UNIT 4 WINDOW & LOUVRE SCHEDULE
0.84/9761-SHEET 24	AUX BAY UNIT 4 – DOOR SCHEDULE 1
0.84/9761-SHEET 25	AUX BAY UNIT 4 – DOOR SCHEDULE 2
0.84/9761-SHEET 26	AUX BAY UNIT 4 – DOOR SCHEDULE 3
0.84/9761-SHEET 27	AUX BAY UNIT 4 – DOOR SCHEDULE 4
0.84/9761-SHEET 28	AUX BAY UNIT 4 – DOOR SCHEDULE 5
MDI/15/M/UMA—B63/8A/CF/101	STEAM TURBINE HALL – PLAN AT LEVEL ±0.00 & +9.00 – ARCH

MDI/15/M/UMA—B63/8A/CF/102	STEAM TURBINE HALL – PLAN AT LEVEL +17.00 & ROOF – ARCH
MDI/15/M/UMA—B63/8A/CF/103	STEAM TURBINE HALL – ARCH SECTIONS
MDI/15/M/UMA—B63/8A/CF/104	STEAM TURBINE HALL – ARCH VIEWS
MDI/15/M/UMA—B63/8A/CF/108	STEAM TURBINE HALL – DOORS & WINDOWS SHEDULE – ARCH
MDI/15/M/UMA—B63/8A/CF/110	STEAM TURBINE HALL – DETAILS – ARCH
0.84/8607 SHEET 1	MEDUPI POWER STATION SUBSTATION AIR COOLED CONDENSER UNIT 2 - 3 SITE PLAN
0.84/8607 SHEET 2	MEDUPI POWER STATION SUBSTATION AIR COOLED CONDENSER UNIT 4 - 5 SITE PLAN
0.84/8607 SHEET 3	MEDUPI POWER STATION SUBSTATIONS AIR COOLED CONDENSER UNIT 2 TO 5 ELEVATIONS
0.84/8607 SHEET 4	MEDUPI POWER STATION SUBSTATION AIR COOLED CONDENSER UNITS 2 TO 5 SECTION AA AND DETAILS
0.84/8607 SHEET 5	MEDUPI POWER STATION SUBSTATIONS AIR COOLED CONDENSER UNITS 2 TO 5 SECTION DETAILS
0.84/8607 SHEET 6	MEDUPI POWER STATION SUBSTATION AIR COOLED CONDENSER UNIT 2 TO 5 SECTION BB, C AND DETAILS
0.84/8607 SHEET 7	MEDUPI POWER STATION SUBSTATION AIR COOLED CONDENSER UNIT 2 TO 5 BASEMENT PLAN
0.84/8607 SHEET 8	SUBSTATIONS AIR COOLED CONDENSER UNIT 2 TO 5 GROUND FLOOR PLAN
0.84/8607 SHEET 9	MEDUPI POWER STATION SUBSTATION AIR COOLED CONDENSER UNIT 2 TO 5 FINISHES SCHEDULE
0.84/8607 SHEET 10	MEDUPI POWER STATION SUBSTATION AIR COOLED CONDENSER UNIT 2 TO 5 FINISHES SCHEDULE
0.84/8607 SHEET 11	MEDUPI POWER STATION SUBSTATIONS AIR COOLED CONDENSER UNITS 2 TO 5 DOORS AND LOUVRES SCHEDULE
MDI/16/M/----- E218A/CF/001	UNIT 1, 2, 3, 4, 5, 6 ACC AUXILIARY BUILDING ARCHITECTURAL PLANS
MDI/16/M/----- E218A/CF/002	UNIT 1, 2, 3, 4, 5, 6 ACC UNIT 1 TO 6 AUXILIARY BUILDING ARCHITECTURAL SECTIONS AND DETAILS
MDI/16/M/----- E218A/CF/003	ACC AUXILIARY BUILDING ARCHITECTURAL VIEWS
MDI/15/N/ULC----B05/CG/008	CLEANED: UNIT 1,2,3,4,5 MEDUPI POWER STATION AIR COOLED CONDENSER LOAD AND FOUNDATION PLAN TOP OF AUXILIARY BUILDING - EQUIPMENT DETAIL DRAWING

MDI/16/M/-----E217A/CF/005	UNIT 1, 2, 3, 4, 5, 6 ACC AUXILIARY BUILDING ARCHITECTURE DOORS SCHEDULE
MDI/16/M/----- E217A/CF/004	CLEANED: UNIT 1,2,3,4,5,6 ACC AUXILIARY BUILDING ARCHITECTURAL DOORS CONSTRUCTION ED01 ED02 - ARCHITECTURAL
MDI/16/M/-----E21--/SW/100	UNIT 1, 2, 3, 4, 5, 6 ACC - UNIT 1 TO 6 AUXILIARY BUILDING STEEL STRUCTURE EMBEDDED PARTS REGISTER - REFERENCE DRAWING

6. Acceptance

This document has been seen and accepted by:

Name	Designation
Jabulani Mkhatshwa	Engineering Manager
Langa Zuma	Auxiliary Engineering Manager (Acting)

7. Revisions

Date	Rev.	Compiler	Remarks

8. Development Team

The following people were involved in the development of this document:

- M van Niekerk

9. Acknowledgements

N/A