



Work Instruction

Group Technology

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### CONTROLLED DISCLOSURE

## 1. INTRODUCTION

Grootvlei Power Station is considering replacing the existing Electrostatic Precipitator (ESP) units at operating units 2, 3, and 4 with Fabric Filter Plant (FFP) technology. With this replacement, some amendments to the current waste management procedure (240-29828394) will need to be made. The attached document will serve as a guideline for new items to be included in the above mentioned procedure.

## 2. SUPPORTING CLAUSES

### 2.1 SCOPE

Engineering Requirements for the Waste Management Procedure (240-29828394) at Grootvlei Power Station.

#### 2.1.1 Purpose

Inclusions necessary in current procedure for successful implementation of the new FFP units 2, 3, and 4 with regards to waste management

#### 2.1.2 Applicability

This document shall apply for Grootvlei Power Station FFP retrofit project units 2, 3, and 4 and its relevant stakeholders in project URS.

### 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] 240-29828394 Grootvlei Waste Management Procedure.
- [2] 240-33531021 Grootvlei FFP URS.

#### 2.2.2 Informative

None

### 2.3 DEFINITIONS

None

#### 2.3.1 Classification

- a. **Controlled disclosure:** controlled disclosure to external parties (either enforced by law, or discretionary).

### CONTROLLED DISCLOSURE

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 authorized version on the system.

## 2.4 ABBREVIATIONS

Abbreviation	Description
FFP	Fabric Filter Plant
ESP	Electrostatic Precipitator
N/A	Not Applicable
URS	User Requirement Specification

## 2.5 ROLES AND RESPONSIBILITIES

It is the responsibility of the environmental officer at Grootvlei Power Station to include the amendments as specified in this document within the current Waste Management Procedure.

## 2.6 PROCESS FOR MONITORING

Group Technology will request an amended copy of the Waste Management Procedure prior project construction commencement.

## 2.7 RELATED/SUPPORTING DOCUMENTS

N/A

## 3. REQUIRED AMENDMENTS

### 3.1 NEW CLAUSES

Clause 6.1.21 Bag disposal

- A registered contractor such as Roshcon or Waste-tech shall remove the old bags from the Eskom site and dispose of them at an approved, Class 1 (H:H), hazardous disposal site. In the case of a bag change the old bags shall be dumped directly into suitable containers supplied by the removal contractor. The containers shall be removed from site as soon as they are filled with bags. The registered contractor shall provide Eskom with a disposal certificate as proof of compliance to the hazardous waste regulations.
- All disposal certificates are to be stored safely for the life of the station. This is due to the fact that while the bags are disposed of safely, they still remain the property and responsibility of Eskom.

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### 3.2 ADDITIONS TO CURRENT CLAUSES

#### Clause 6.1.5 Building rubble

- iii. After concrete is broken down in smaller more handle friendly pieces all the reinforcement bars should be cut of so that the steel is flanged with the remaining concrete.

#### Clause 6.1.7 Ferrous and non-ferrous metals

- v. All scrap metals should be tested for radio activity to classify between waste and hazardous materials prior to disposing.

### 4. AUTHORIZATION

This document has been seen and accepted by:

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### 5. REVISIONS

Date	Rev.	Compiler	Remarks
March 2012	1	Hendrik van Riel	First copy

### 6. DEVELOPMENT TEAM

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

- Leon van Wyk – Group Technology, Boiler Aux Plant
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### 7. ACKNOWLEDGEMENTS

- Jan Olivier - Grootvlei Power Station
- Ben v/d Walt - Grootvlei Power Station

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