

**Technical Instruction****Western Operating Unit**

Title: **TRANSPORTATION OF  
HAZARDOUS WASTE  
/DANGEROUS GOODS**

Unique Identifier: **240 - 79588146**

Part **21**

Area of Applicability: **Distribution WCOU**

Documentation Type: **Technical Instruction**

Revision: **0**

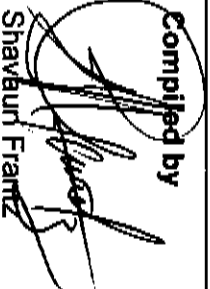
Total Pages: **9**

Date: **8/05/2014**

Disclosure Classification:

**Controlled Disclosure**

**Compiled by**

  
Shavbun Frantz

**Supported by**

  
Astrid October

**Authorized by**

  
Sipokazi Potehwa

**Environmental Practitioner**

**Environmental Manager**

**SHEQ's Manager**

Date: **09.05.2014**

Date: **09.05.2014**

Date: **09.05.2014**

**ESKOM COPYRIGHT PROTECTED**

Initials of IARC Controller/Date (Draft Number) to ensure traceability

Content

	Page
INSTRUCTION:.....	2
1. Definitions .....	3
2. Introduction.....	4
2.1 Transportation of hazardous/dangerous waste.....	4
2.2 Transportation loads .....	6
3. Annexure 1 Waste Profile Sheet.....	7
4. Revision History .....	9

## 1. DEFINITIONS

1.1 Disposal means the burial, deposit, discharge, abandoning, dumping, placing, or release of any waste into, or onto any land

1.2 Hazardous waste means any waste that contains organic or inorganic elements or compounds that may, owing to the inherent physical, chemical or toxicological characteristics of that waste, have a detrimental impact on health and the environment

1.3 Dangerous goods means commodities, substances and goods listed in the SANS 10228 which describes and quantifies the dangerous goods being transported from a consignor to consignee

1.4 Waste disposal site means any site or premise used for the accumulation of waste with the purpose of disposing of that waste at that site or on that premise

1.5 Exempt quantity means quantity of dangerous goods which, if not exceeded in the total load, is exempt from the requirement of the SANS 10231 standard

## INTRODUCTION:

### 2.1 Transportation of hazardous waste/dangerous waste

All hazardous waste must be disposed of at a registered landfill site in line with the National Environmental Waste Act, 2008 (Act 59 of 2008 1998). All waste management activities undertaken should be in a controlled manner and ensure that it does not become a nuisance or cause a negative impact onto the environment.

Currently the OU is in the process of establishing a waste contract for the Western Cape Operating Unit. In the interim hazardous waste must be collected and disposed by a hazardous waste contractor on an adhoc basis or small quantities of hazardous waste can be transported to Brackenfell Complex provided that the quantities are within the exemption limits of South African National Standard(SANS 10231:2010) - Transportation of dangerous goods.

Small quantities of hazardous waste transported to Brackenfell Complex (exempted in terms of the transportation of dangerous goods) must be accompanied with a waste profile sheet (see below) and prior arrangements with Eskom Real Estate (Les Olifant) must be made in terms of disposal. The waste profile sheet is required for the waste classification when disposed of at Visserhok landfill site. The waste is disposed of by a hazardous waste contractor to the hazardous waste landfill site. The necessary waste documentation (waste manifest, safe disposal certificate and weigh bridge ticket) for the safe disposal of hazardous waste is required for all waste disposed of and must be submitted to the relevant environmental practitioner.

#### Transportation of hazardous waste

The transportation of dangerous goods makes reference to a number of requirements which includes: packaging of the hazardous waste, labelling of containers (CFL's will have to be returned into its old packaging and correctly labelled), vehicle requirements and licensing vehicle roadworthiness, driver training, licensing and responsibilities (i.e. the driver needs documentation in terms of emergency response- oil spill, load of vehicles and securing the load, transport documentation.

The above is according to the minimum requirements for the handling and classification and disposal of hazardous waste.

**Find attached exception list from the South African National Standard (SANS 10231: 2010)**  
Transportation of dangerous goods – Operational requirement for road vehicles, (provides requirements for the transporting of dangerous goods).

Certain quantities have been exempted from these requirements and are listed in the SANS Standard. The list of the exempted quantities for some of the hazardous substances (dangerous

goods) are provided in the table below.

Note: when transporting more than one type of substance the exemption quantities for multiple loads must be considered and implemented.

This is a legal requirement for safe operations and handling of all road vehicles that are used for the transport of dangerous goods. Further reference could be made to the South African National Standard should there be transporting of other hazardous waste material

In terms of duty of care ensure that an emergency preparedness plan/response is followed in the event of an incident. If any of the quantities are greater than the exempted amount a hazardous waste contractor must be appointed for the collection and disposal.

#### Exempt quantity for a mixed load

If no single item of dangerous goods in the load exceeds the quantity (in kilograms or litres, as appropriate) in the EXEMPT QUANTITY column, the calculation below shall be done for each item of dangerous goods in the load. If the sum of *A* for all the calculations does not exceed 1 000, the requirements of this standard do not apply.

$$A = Q \times F$$

where

*A* is the result;

*Q* is the quantity of the dangerous goods being transported, in kilograms or litres, as applicable;

*F* is the factor shown in the column in the table.

Contact the environmental team should you need clarity.

## 2.2 Transportation Loads – (SANS 10231:2010 Exempt quantity list and special provisions)

Unique number	Chemical	Class	Packaging group	Exemption quantities (litres)	Multiload factor
1202	GAS OIL or DIESEL FUEL or HEATING OIL, LIGHT, flash point <60,5°C c.c.	3	III	1000	1
1202	DIESEL FUEL complying with standard EN 590:1993 or GAS OIL or HEATING OIL, LIGHT with a flash point as specified in EN 590:1993	3	III	1000	1
1203	MOTOR SPIRIT or GASOLINE or PETROL	3	II	500	2
1223	KEROSENE	3	III	1000	1
1263	PAINT or PAINT RELATED MATERIAL	3	I	100	10
		3	II	500	2
		3	III	1000	1
1267	PETROLEUM CRUDE OIL	3	I	100	10
			II	500	2
			III	1000	1
1299	TURPENTINE	3	I	1000	1
1306	WOOD, PRESERVATIVES, LIQUID	3	II	500	2
			III	1000	1
	PAPER, UNSATURATED OIL TREATED, incompletely dried				
1379	(including carbon paper)	4.2	III	200	5
			Non-dangerous for road transport		
1856	Rags, oily	4.2			
1090	Acetone	3	II	500	2
2809	Mercury	8	III	200	5

## Annexure 1

### Waste Profile Sheet

#### WASTE GENERATOR INFORMATION

GENERATOR NAME				
PHYSICAL ADDRESS				
TELEPHONE NUMBER		CELL NUMBER		EMAIL

Waste Information System Registration Number (WIS) \_\_\_\_\_

\*This is a legal requirement from 31 March 2013

#### WASTE DECLARATION

WASTE STREAM/NAME				
PROCESS THAT GENERATES THE WASTE				
CONTAINER TYPE, SIZE, NO OF CONTAINERS/VOLU ME				
DATE OF GENERATIONS				
PERMANENT		CLEAN UP		
IS THE WASTE	SOLID		LIQUID	SLUDGE
DOES THE WASTE BURN	YES		NO	
DOES THE WASTE HOT	YES		NO	
DOES THE WASTE CONTAIN METALLICS (EG. IRON, NICKEL, COPPER, ZINC, ETC) GREATER THAN 5%?	YES		NO	

**WASTE  
COMPOSITION**

MAJOR COMPONENTS		CONCENTRATION

Application on  
behalf of 3<sup>rd</sup> party

YES	NO
-----	----

If yes, please attach Transporters Agreement with this document.

_____	_____
Signature	Name and Title (Print)
	Date

**\*Please note that all fields are compulsory and must be completed in full**  
**\*All samples must be submitted together with relevant MSDS's**



### 3. Revision History

Date	Rev.	Compiled By	Clause	Remarks
5/05/2014	0	S. Frantz	SANS(10231: 2010)	This is a new instruction

**ESKOM COPYRIGHT PROTECTED**

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