



# PROCEDURE

## Hazardous Waste Storage and Disposal



# QATAR STEEL COMPANY (QPSC)

Procedure	2.32.4.1.10.01
Established	25-02-2011
Effective Date	10-02-2019
Revision	02

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### REVISION HISTORY

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Hazardous Waste Segregation, Storage And  
Disposal Guidelines

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**Prepared By :**  
HSE Department

**Issued By:**  
HSE Department

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## 1. Internal Controls

### 1.1 REVIEW of PROCEDURES

To assure Managements, Shareholders and External agencies confidence in the company's policies & practices, QATAR STEEL Internal Audit may verify compliance with this procedure. [Department Owner] shall review this procedure every three years to ensure that it continues to serve the purpose intended.

### 1.2. EMPLOYEE RESPONSIBILITIES

All employees of the company are required to observe the company's policy and procedures.

### 1.3. APPROVAL

This procedure and any amendments made thereto; require the following approvals.

#### AUTHORITY



Approved By:  
Mohammed Nasser Al-Hajri  
Managing Director & General Manager (MD/GM)

#### DATE

10 FEB 2019



Checked By:  
Alexander Stramrood  
Manager – HSE Department

10 FEB 2019

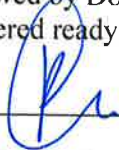


Drafted By:  
Yousef Rashid Essa Al-Suwaidi  
Head of Section – Environment

10 FEB 2019

This document has been reviewed by Document Controller. It complies with the requirements of policy 1.12.0.1.01.01 and it is considered ready for issue.

Signed by \_\_\_\_\_



Date \_\_\_\_\_

10 FEB 2019

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## 2. PURPOSE

The management of hazardous waste at Qatar Steel in an environmentally safe and cost-effective manner to achieve the following;

- Application of Qatar Steel corporate Health, Safety and Environmental Policy to its full extent to protect the public health and the environment.
- Ensure appropriate waste collection, storing and transportation waste generated at Qatar Steel.
- Establish and maintain waste manifest of the movement and ultimate disposal of waste.
- Well-defined accountability and liability for hazardous waste management.
- Compliance with the State standards and MIC Environmental Regulations concerning Waste Management.

## 3. SCOPE

This procedure is applicable to all activities at Qatar Steel that result in the generation of hazardous waste and for the handling, storing, classification of type of waste and disposal.

## 4. PROCEDURE

It is the position of Qatar Steel Management that the handling, storage, transportation and disposal of hazardous waste generated at Qatar steel shall be in accordance with the State environmental standards and MIC environmental regulations to prevent the occurrence of the following hazards:

- Contamination of surface water and groundwater.
- Emission of airborne pollutants.
- Nuisance created by noise, dust and odor.
- Health hazards created by breeding disease-carrying organisms.
- Threat to public health & safety.

All environmental, health & safety guidelines recommended by MIC and the Ministry of Municipality and Environment (MME), as may be issued from time to time, shall be adopted to minimize the environmental impacts of waste management practices.

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## 4.1 DEFINITIONS

### ➤ Hazardous Waste

- Hazardous Waste: Constitutes a hazard to the public health and the environment.

### ➤ Explosive substance

- An explosive substance solid or liquid substance or waste (or mixtures of substances or wastes) which is in itself capable by chemical reaction (in the presence of an ignition or sufficient heat) of producing gas at such a temperature, pressure and speed of which the speed propagation is sudden and/or violent, possibly causing damage to the surroundings.

### ➤ Flammable Liquids

- Flammable liquids, or mixtures of liquids, or liquids containing solids in solution or suspension (for example, paints, varnishes, lacquers, etc., but not including substances or waste otherwise classified on account of their dangerous characteristics) which give off a flammable vapour at temperatures of not more than 60.5 deg. C, closed-cup test, or not more than 65.6 deg. C, open-cup test.

### ➤ Flammable solids

- Solids, or waste solids, other than those classed as explosives, which under conditions encountered in transport are readily combustible, or may cause or contribute to fire through friction.

### ➤ Oxidizing

- Substances wastes which, while in themselves not necessarily combustible, may, generally by yielding oxygen cause, or contribute to, the combustion of other materials.

### ➤ Infectious

- Substances these are substances or wastes containing viable microorganisms or their toxins, which are known or suspected to cause disease in animals or humans.

### ➤ Corrosive

- Substances or wastes, which, by chemical action, will cause severe damage when in contact with living tissue, or, in the case of leakage, will materially damage, or even destroy, other goods or the means of transport; they may also cause other hazards.

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➤ **Toxic**

- These are substances or wastes, which, if they are inhaled or ingested or if they penetrate the skin, may involve delayed or chronic effects.

## 4.2 ABBREVIATION

**HSE** - Health, Safety and Environment

**MME**- Ministry of Municipality and Environment (Former Ministry of Environment MOE)

**MIC** - Mesaeid Industrial Cities

**QP**- Qatar Petroleum

**MSDS** – Material Safety Data Sheet

## 5.0 Responsibilities

➤ **HSE department**

- Assessing the compliance with this procedure.
- Making recommendations to Qatar Steel Management on issues related to waste management.

➤ **Waste Generators (User Department)**

- Responsible for ensuring that waste generated are manage in accordance with the requirements of this guidelines.
- Responsible for the transportation of waste to Central Waste Area upon getting approval from CWH.
- Responsible for proper waste segregation.
- Shall identify ,maintain the collection point and shall be readily accessible to collection vehicle
- Ensure that generated waste must be marked and equipped with lids.

➤ **Central Warehouse Department**

- Responsible for ensuring the effectiveness and accuracy of the collection from the Waste generator to Central Storage Area thru issuing request form and inspecting the quality of waste.
- Responsible for managing hazardous waste in the Central Storage Area in accordance with the requirements of these guidelines.
- Responsible for coordination to the waste generator for the collection and for third party waste hauler contractor for the disposal.

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- Responsible for coordination to the waste generator for the collection and for third party waste hauler contractor for the disposal.
- Maintaining records of waste generation, transportation and disposal and furnished the disposal certificate to HSE in a monthly basis.

➤ **Clinic (HSE Department)**

- Responsible for ensuring the infectious waste generated are properly manage from segregation, packaging ,storage and disposal
- Responsible for the coordination to the MME certified contractor for the disposal
- Maintaining records of waste generation, transportation and disposal and furnished the disposal certificate to HSE in a monthly basis.

## 6.0 Hazardous Waste Management

### 6.1 Waste Classification

**Table 1: Qatar Steel Hazardous Waste classification generated Forecast**

Waste No.	Name of Waste	Description	Hazardous Characteristics
H-02	Catalyst	Substances and preparations which exhibit highly exothermic reactions when in Contact with other substances, particularly flammable substances.	Toxic
H-03	Battery Acid, Paints, expired chemicals, Thinner etc..	Liquid substances and preparations having a flash point below 21°C (including extremely flammable liquids)  Substances and preparations which, in contact with water or damp air, evolve highly Flammable gases in dangerous quantities.	Toxic
H-04	Battery Case*	non-corrosive substances and preparations which, through immediate, prolonged or	Irritant

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Waste No.	Name of Waste	Description	Hazardous Characteristics
		Repeated contact with the skin or mucous membrane can cause inflammation.	
H-05	Acid Waste*	substances and preparations which, if they are inhaled or ingested or if they penetrate The skin, may involve limited health risks.	Harmful
H-06	Silica Gel, Fluorescent bulbs and electronic waste including ink cartridge	Toxic substances and preparations (including very toxic substances and preparations) which, if they are inhaled or ingested or if they penetrate the skin, may involve serious, acute or Chronic health risks and even death.	Toxic
H-09	Clinic Waste	substances containing viable micro-organisms or their toxins which are known or Reliably believed to cause disease in man or other living organisms.	Infectious substance
H13	Oil Sludge & Used oils	Oil mix with cottons sand and other contaminants	Toxic

(The number is from "European Waste List", under Chapter 10.02 Waste from Iron and Steel Industry, 10.02.07)

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## 6.2 Collection

The waste collection frequency will be upon the request by the waste generator to the CWH.

## 6.3 Storage

The following guidelines shall apply for the storage of hazardous waste:

- Labeling all hazardous waste container
- Hard standing
- Shed/roof to prevent water ingress
- Fencing with appropriate signs regarding the hazards of the waste/chemicals being stored
- Appropriate bund walls around the area to prevent the spread of any spilled materials
- Storage area shall be inspected regularly for leakage and structural operational integrity
- The storage area for volatile substance shall be cover and ventilation system shall provide to capture airborne contaminants.
- Access to a hazardous waste storage area shall be controlled to prevent entry of unauthorized persons or vehicle
- The storage areas shall be paved, fenced, marked ,locked and illuminated
- Hazardous waste stored in drums or other moveable storage containers shall be stored with sufficient aisle spacing to allow inspection and movement of the drums or container. Drums may be stacked on pallets or skid in impermeable surface, no more than two (2) drums high.
- Hazardous waste storage area or in its close proximity, entities shall install eyewash facility
- Hazardous waste storage area shall have a fire fighting system compatible with the stored waste
- Employees engaged in the handling and management of the hazardous waste shall be trained and competent.
- Other provision that may be require in the MSDS of the waste/chemicals being stored temporarily.
- Infectious waste shall be use distinctive, clearly marked containers or plastic bags, which is impervious, tear resistant and distinctive color.
- Infectious waste shall use the universal biological hazard symbol for the waste container as appropriate.

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## 6.4 Transportation

The transportation of hazardous waste shall carry out in accordance with the following requirements, as a minimum:

- Waste shall be transport in suitable containers and vehicles that are secure and prevents spillage of waste during transit. Loose materials should be cover in transit to prevent it being blown out of the vehicle.
- Generators shall label and mark the containers of hazardous waste before its transportation
- The storage, handling and transportation of all hazardous waste shall be documented with records of quantities, characteristics, associated hazards and emergency procedures.
- All employees and contractors handling and transporting the hazardous waste shall be appropriately trained.

## 6.5 Disposal

- MME certified third party specialist contractors to collect and dispose the specific industrial waste to the Ministry of Municipality and Environment -approved treatment facility.

## 7.0 REFERENCE STANDARDS AND CODES

- Environment Protection Law of 2002
- By-Law No.4 of 2005 Environment Protection Law
- By-Law Annexes 2005 of Environment Protection Law
- Mesaeid Industrial City Environmental Guidelines and Protection Standard rev.02 June 2011
- QP guideline for Waste Management (Doc No: QP- GDL-V-001)
- Code of Federal Regulations part 260- Hazardous Waste Management System
- The Basel Convention, Secretariat of the Basel Convention, Geneva Executive Centre, Switzerland, 1992
- European waste catalogue and Hazardous waste list ( 2002)
- EPA Guide For Infectious Waste Management (1986)

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