

OPERATING TECHNIQUES

For



**SIMS
METAL
MANAGEMENT**

Metal Recycling Facility

At

**Unit 6
Tremorfa Industrial Estate
Off Martin Road
Cardiff
CF24 5SD**

Permit Holder:

Sims Group UK Limited
Long Marston
Stratford-upon-Avon
Warwickshire
CV37 8AQ

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1. GENERAL INTRODUCTION

- 1.1. This Metal Recycling facility will be operated by Sims Group UK Limited. It will form a strategic component of the network of recycling facilities operated by the company throughout England and Wales.
- 1.2. The site will receive process and recover ferrous and non ferrous metals from scrap and will act primarily as a source of ferrous feedstock for the steel manufacturing industry.
- 1.3. Appendix 1 shows the location of the facility.
- 1.4. Appendix 2 shows all key features of the facility including principle storage locations.
- 1.5. The site will undertake a range of waste management activities including;
 - Storage and treatment of ferrous and non ferrous metals;
 - Storage and treatment of general mixed scrap metal;
 - Storage and treatment of End of Life Vehicles (ELVs);
 - Storage of Waste Electrical and Electronic Equipment (WEEE);
 - Storage of Waste Batteries;
 - Storage of Waste Tyres.

1.6 Relevant Regulations, Technical Guidance Notes and other documentation

In accordance with the Environmental Permitting (England and Wales) Regulations, operators are required to confirm whether their proposed operation will take place in line with standards set by any relevant Environment Agency/ NRW Sector Guidance Note and legislation. Where the proposed operations will deviate from the relevant Guidance Note or where there is no guidance for the operation, the permit supporting information must include:

1. Description of the operation that will take place at the site
2. Justification of the measures that will be used to control emissions from the processes.

There is no specific Sector or Technical Guidance Note for all the operations at Cardiff. However a number of documents are relevant to the operations and Sims will operate in accordance with these:

- Environmental Permitting Guidance, the Waste Framework Directive, DEFRA
- Sector Guidance Note EPR5.06: Guidance on the recovery and Disposal of Hazardous and Non-hazardous Waste, Environment Agency

Relevant legislation covering the activities on site is as follows:

- Waste Framework Directive
- Hazardous Waste Directive
- WEEE Directive
- ELV Directive

This document accompanies a permit application for the site.

2. SPECIFIED WASTE MANAGEMENT OPERATIONS

2.1. Description of the Site

The location of the site, boundaries and surrounding features are highlighted in Appendix 1.

2.2 Operations

The principle activities at the site will be receiving and processing of ferrous and non-ferrous metal.

The facility will be designed for the specialist recovery and storage of ferrous and non-ferrous metals; these may be light or heavy off-cut from manufacturing, obsolete machinery or other equipment from industry, bulky metal-based discards from commercial sector or scrap metal and white goods etc from scrap suppliers or members of the public.

Batteries and tyres will be accepted on site for storage prior to removal for treatment at a suitably authorised facility.

WEEE will be accepted on site for storage prior to removal for treatment at a suitably authorised facility.

Treatment will include sorting, dismantling, grading, screening, depollution, shearing, baling, stripping and cutting. These activities will be carried out with the aid of mechanical plant.

The site will be an Authorised Treatment Facility (ATF) for the depollution of End of Life Vehicles. End of Life Vehicles will be depolluted in accordance with ELV Regulations and applicable legislation.

No wastes will be disposed of at the site.

2.3 Classification of the Waste Management Operations – Waste Directive Codes

In accordance with Annex IIB of the Waste Framework Directive the site activities falls into the following:

R4: Recycling/reclamation of metals and metal compounds

R5: Recycling/reclamation of other inorganic compounds

R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)

2.4 Locations of the Waste Management Operations

The Site Location Plan & Site layout Plan show the entire area of the site and detail key features of the facility including infrastructure, drainage and storage locations.

Due to the constantly changing operational and commercial pressures of the metal industry, a degree of flexibility with regard to the storage locations will be required. Depending of operational demands at any one time, it may be necessary to relocate specified activities within the overall permitted area. However, in the event of such demand, the overriding principle will always be that the operation will be carried out in such a manner to prevent any harm or risk to the environment.

2.5 Permitted Waste Types

Material	EWC code
Waste Metal from Agriculture	02 01 10
Ferrous metal filings and turnings	12 01 01
Non- Ferrous metal filings and turnings	12 01 03
Metallic Packaging	15 01 04
Mixed Packaging	15 01 06
Tyres	16 01 03
End of Life Vehicles (polluted)	16 01 04*
End of Life Vehicles (depolluted)	16 01 06
Ferrous metal from ELV	16 01 17
Non-ferrous metal from ELV	16 01 18
Catalytic Converters	16 01 21*
Non Hazardous components from ELV	16 01 22
Discarded equipment containing chlorofluorocarbons, HCFC, HFC	16 02 11*
Discarded equipment containing hazardous components other than those mentioned in 16 02 09 to 16 02 12	16 02 13*
Non Hazardous WEEE	16 02 14
Hazardous components removed from discarded equipment	16 02 15*
Non Hazardous components removed from WEEE	16 02 16
Lead batteries	16 06 01*
Ni-Cd batteries	16 06 02*
Mercury containing batteries	16 06 03*
Alkaline batteries	16 06 04
Other batteries and accumulators	16 06 05
Copper, Bronze, Brass from construction and demolition waste	17 04 01
Aluminium from construction and demolition	17 04 02
Lead from construction and demolition	17 04 03
Zinc from C&D wastes	17 04 04
Iron & Steel from construction and demolition	17 04 05
Tin from construction and demolition	17 04 06
Mixed metal from construction and demolition	17 04 07
Metal waste from C&D contaminated with dangerous substances	17 04 09*
Cables containing oil, coal tar and other dangerous substances	17 04 10*
Cables	17 04 11
Ferrous metal from bottom ash	19 01 02
Iron & Steel from Shredding	19 10 01

Non-ferrous from Shredding	19 10 02
Ferrous metal from other waste facilities (mechanical treatment)	19 12 02
Non-ferrous metal from other waste facilities (mechanical treatment)	19 12 03
Other wastes (including mixtures of materials) from mechanical treatment of waste containing dangerous substances	19 12 11*
Fluorescent tubes and other mercury-containing waste	20 01 21*
Discarded equipment containing chlorofluorocarbons	20 01 23*
Batteries and accumulators	20 01 33*
Batteries and accumulators	20 01 34
Discarded electrical and electronic equipment containing hazardous components	20 01 35*
Non Hazardous WEEE – household/ local authority	20 01 36
Metals – household/ local authority	20 01 40

* Denotes a hazardous waste

2.6 **Waste Quantities**

The total tonnage accepted per annum will be <74,999 tonnes.

A maximum of 50 tonnes of hazardous waste (excluding end of life vehicles and WEEE awaiting manual treatment) will be stored onsite at any one time.

2.7 **Hours of Operation**

Monday to Friday – 0700hrs to 1700hrs

Saturday – 0700hrs to 1200hrs

2.8 **Waste Acceptance Procedures**

All vehicles bringing waste to the site will be directed to the weighbridge where the paperwork is scrutinised by the Weighbridge Operator to ensure it is in line with Duty of Care requirements and Hazardous Waste Regs. Such paperwork may include, weighbridge tickets, transfer notes, season tickets for contracted waste and hazardous waste consignment notes.

Weighbridge tickets will be produced for all wastes delivered which will contain the name of the supplier / producer, the registration number of the carrier's vehicle, details of waste type, time and date. Hazardous waste consignment notes will be completed as necessary.

As far as possible all loads will be visually assessed from the weighbridge, and may be rejected if the waste is found to be mis-described or non-permitted. If there are other irregularities with the paperwork, the Weighbridge Operator may also radio a designated site operative and request specific inspection of the load when deposited at the storage area. Further inspection will follow before and during the unloading stage. If the site operative is unsatisfied with any particular item(s) or indeed the whole load, its removal off-site by the driver will be required or, if the Company considers it to be best environmental option, the material will be quarantined pending further investigation and possible referral to Natural Resources Wales.

Non-conforming wastes will be placed immediately in a designated quarantine area until suitable disposal arrangements can be made. There will be a cage for storing orphaned gas cylinders and a designated container will be available to contain any potentially contaminated wastes. There will be no mixing of non-conforming (quarantined) wastes with authorized wastes. Non-conforming wastes will be stored separately where possible and when legislation requires. Any non-conforming wastes that are defined as Hazardous under the Hazardous Waste Directive will be handled and moved off site in line with the requirements of the Directive.

Where necessary the producer/customer and Natural Resources Wales will be informed of a rejected load and all details relating to the load recorded.

2.9 Waste Storage & Infrastructure

Wastes will be treated on an impermeable surface. Site surfacing will be inspected on a regular basis. Any areas of surfacing showing wear are monitored and repaired as soon as reasonably practicable. Any repair works will be recorded in the site diary.

Diesel and Oil will be required on site for use in mobile plant. These fluids will be stored in containers with appropriate secondary containment measures capable of holding at least 110% of the volume of the primary containment vessel. Contaminated surface waters will be disposed of via an authorised treatment facility as necessary.

Oxy/propane cylinders will be required for oxy/propane hot cutting works. These will be stored appropriately in a safe manner and to prevent damage.

All residues and components removed from End of Life Vehicles will be appropriately contained.

Batteries will be stored in leak-proof containers with lids to prevent the ingress of water.

Storage areas will be provided with spillage collection facilities including spill kits.

Drain onsite will discharge to foul sewer.

Lighting is provided in all areas, thus facilitating safe working of all staff.

2.10 Energy Usage

Sims has an Energy Group and Energy Policy to ensure that energy is used efficiently at the site. This scope of the Energy Group will be extended to include this facility and to identify the energy consumption and methods of saving energy at the site.

2.11 Raw Materials and water

The set up of plant and equipment will minimise the consumption of raw materials and water at the site. Raw materials will include diesel and oil for use in mobile plant. Oxy/propane cylinders will be required for oxy/propane hot cutting works.

2.12 Security

This is an area of vital concern to our business, not only in relation to the value of the materials in store, but also in relation to the protection of the environment and human health.

All visitors will be required to report to the site office and sign the visitor's book.

All fencing, gates and other security measures will be inspected on a regular basis and maintained in sound condition.

3 EMISSION CONTROL AND MONITORING

3.1 Odour

The site will not pose a risk of odour related impact due to the nature of the waste and activities carried out. Nevertheless, during inspections the presence of any offensive odours will be noted and recorded in the Site Diary. The source of any problem will be investigated and dealt with as necessary to remove the problem. Any complaints received will be recorded in the Site Diary and actioned where appropriate.

3.2 Noise and Vibration

Activities on site are managed to minimize the risk of noise related impact. Nevertheless, during inspections the presence of nuisance noise will be noted and recorded in the Site Diary. The source of any problem will be investigated and dealt with as necessary to remove the problem. Any complaints received will be recorded in the Site Diary and actioned where appropriate.

3.3 Dust

The site will not pose a risk of dust related impact due to the nature of the waste and activities proposed. Dust suppression will be available for treatment activities e.g. – for separation/ screening plant. During inspections the presence of any nuisance dusts will be noted and recorded in the Site Diary. The source of any problem will be investigated and dealt with as necessary to remove the problem. Any complaints received will be recorded in the Site Diary and actioned where appropriate.

3.4 Litter

The nature of wastes dealt with will minimise the risk of litter related problems. Nevertheless, any escape of litter beyond the boundary of the site will be cleared

up as soon as it is practicable and safe to do so. Any complaints received will be recorded in the Site Diary and actioned where appropriate.

3.5 Pests

Wastes handled will not attract vermin. A contractor will be used if required to control vermin and records of actions will be maintained.

3.6 Fires on Site

Site personnel will be trained in the site's Fire Prevention Plan and Emergency Contingency and Accident Management Plan. Firefighting equipment is readily available and maintained as per legal requirements.

4 MANAGEMENT

Sims Group UK Limited will operate an internal Environmental Management System (EMS) at the site.

A planned programme of maintenance for all infrastructure, plant and equipment will be in place and all plant will be inspected and maintained in line with the manufacturer's instructions or other appropriate regime.

Sims Group UK Limited has a training and development programme designed to ensure that staff are suitably trained to undertake their duties. The roles and responsibilities of staff on site are clearly defined and training records for each member of staff will be maintained and reviewed regularly to ensure competence is maintained and up to date. Technically competent management will be in place and continuing competence will be maintained.

Key personnel will complete relevant competence assessment & Continuing Competence Assessment as applicable. Such employees will be on site to ensure that operations are undertaken in line with Sims Group UK Limited policies.

The site will be appropriately manned to ensure that the site operates with due regard to the prevention of environmental pollution and harm to human health and ensure that permit requirements are fulfilled. Personnel on site will include office staff, supervisors, operational personnel, drivers and management.

All contractors visiting the site will receive an induction to ensure that they are aware of the scope of their work, the emergency procedures for the site and any other management systems appropriate to their role.

The site will have an Emergency Contingency and Accident Management Plan that together with the Environmental Management System including Operating Techniques and Environment Risk Assessment will meet the requirements of the Natural Resources Wales Guidance.

In the event of an incident, details will be recorded and a full review undertaken. This review will include the following:

- Cause of the incident;
- Effectiveness of management technique
- Effectiveness of Emergency Contingency Plan and Procedures; and
- Recommendations for management technique and/or emergency procedure to reduce risk of future incidents.

5 SITE RECORDS

The operator will ensure the following information is recorded:

- Site inspections by the operator or other body and any subsequent issues and corrective actions taken;
- Construction work;
- Emergencies;
- Fire;
- Complaints and actions taken;
- Plant/equipment failure;
- A record of any rejection of waste;
- Technically competent manager – times on site;
- Security failures;
- Severe weather conditions.

All records will be held in the site office and will be available on request. All records, which are required under the conditions of the Environmental Permit, will be maintained and kept secure from loss, damage or deterioration. Any records held electronically will be backed up on a regular basis.

APPENDIX 1

APPENDIX 2