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## SSE Generation Ireland Limited

Campile, New Ross, Co Wexford

### Industrial Emissions Licence Review 8-1 Waste Management

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## 1. Waste Management

Both hazardous and non-hazardous waste are generated on site as a consequence of the electricity generation process. However, due to the nature of the activities carried out on site, the volume of waste generated is relatively small.

The following information summarises the waste management philosophy at the installation.

- Waste is managed at all times in accordance with the Waste Management Hierarchy;
- The generation of waste is prevented or minimized where possible;
- Waste is recovered (always) and recycled (when possible). If this is not technically or economically feasible, waste is disposed of through the appropriated service contractors;
- No waste management activities take place on site, with the exception of segregation, storage and dispatch via approved contractors;
- Procedures for the handling, containment, movement and management of waste are in place and EPA approved;
- Potential opportunities for the prevention and minimization of waste generated forms an integral part of the EMS and is considered as a continuous improvement target;
- Waste is managed in accordance with all relevant statutory requirements and best practice guidelines;
- All waste contractors engaged by SSE hold appropriate permits and licences. All waste is managed in accordance with the Waste Management Act 1996, as amended and associated regulations;
- The EHS department is responsible for ensuring compliance, training, approving contractors, maintaining records, and controlling contractor waste licences and permits;
- Records of all waste movements are retained on site and are readily available for inspection. The records include details of the waste contractors, dates of collection, quantities, records of final disposal/recovery and forms, as appropriate and as per EMS corresponding procedures;
- Annual waste movements are reported in the Annual Environmental Report (AER) in accordance with the conditions of the IE licence.

## 2. Measures taken to prevent waste

SSE has coordinated an extensive and comprehensive waste register for the installation which breaks down the volumes of waste produced in every category. The waste figures are monitored on a monthly basis and reported to the EPA in an annual environmental report. This detailed monitoring allows for selective planning programmes and procedures to be developed and implemented on site to minimise waste production.

Due to the nature of the operation, it is inevitable that there will be waste generated as part of the activity, however targets and objectives are set as part of the EMS, to ensure the waste generated in each area is minimised. At all times the hierarchy of waste is followed in terms of waste management.

The installation is audited by SSE corporate on an annual basis to ensure environmental management meets the requirements of legislation and the SSE company policies.

Internal audits, site walkovers and contractor inspections are routinely carried out to ensure procedures are carried out accordingly. Waste management forms part of the method statement requirements for contractors to SSE to ensure they have considered this important aspect of any contract works while on site.

SSE Great Island has been accredited for ISO 14001 which approves the waste management procedures taking place at the installation.

Any recommendations, legislative updates or improvements that are brought to the EHS department outside of the company's own internal audits are implemented.

## Waste Hierarchy Approach



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## Appendix I: Waste Management Procedure

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<b>The author / owner of this document is:</b>	<b>This document has been approved for issue by:</b>	<b>Date of Issue:</b>	<b>Review Date:</b>
Jonathan Storey	Padraig Dunleavy	January 2019	January 2022

## Summary

### Why do we need this Instruction?

This Work Instruction is to ensure Great Island CCGT Power Station complies with SSE Risk Management Standard RS-SHE-300 Waste Management Standard, the conditions of our Integrated Pollution Prevention and Control (IPPC) License and all relevant legislation.

It ensures Great Island CCGT Power Station operates in an environmentally compliant manner at all times with respect to waste.

The Waste Management Act defines waste as; something the holder of it discards, intends to discard or is required to discard.

This means that if Great Island has material that has to be got rid of, then this is defined as waste. This principle may apply even if the material has some financial value, for example, scrap metal. Accordingly, materials consigned for recycling or recovery usually fall within the definition of waste. This is because waste management at all levels of the hierarchy can have some impact on resource consumption, greenhouse gas emissions, local water and air pollution and other environmental indicators.

## Scope, Legislation, Deviation, Review and Language

### Scope

This work instruction is applicable to all SSE Great Island CCGT Power Station employees, contractors and visitors involved in generation activities or otherwise, this includes administration, operation and maintenance, fuel systems, electrical generation and control systems.

This also includes all areas and activities within Great Island Power Station site boundary.

This work instruction applies to all waste produced at Great Island Power Station.

### Deviation

Deviations from this Work Instruction shall be agreed in writing between the Station Manager and the Process Support Manager.

### Review

The Station Manager shall review the working and current applicability of this Work Instruction every 3 years as a minimum.

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<b>Definitions</b>	
<b>The following are definitions adopted by Great Island CCGT Power Station</b>	
<b>AER</b>	Annual Environmental Report
<b>EPA</b>	Environmental Protection Agency
<b>IPPC</b>	Integrated Pollution Prevention Control
<b>TFS</b>	Trans Frontier Shipment
<b>WTF</b>	Waste Transfer Form

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## Process

### Requirements/ Process/ Application

#### 1. Waste Types

Waste at Great Island Power Station are classified as Hazardous and Non-Hazardous, refer to Appendix A for waste codes.

Employees, Contractors or Visitors are not permitted to bring any waste onto the site at any time due to the requirements of the site IPPC environmental permit. This is because the Site does not possess a Waste Management License to receive waste from other sources.

#### 2. Waste Disposal

All Staff Members are responsible for the disposal of waste in a safe and environmental friendly manner. All waste movements must be recorded in **FO-GTIS-SHE-004-008-001** Waste Register.

Please see Appendix B for Waste Locations

The Waste Collection Area for the site is located outside the work issue area. There are bins here for the following waste streams;

- General non-hazardous waste
- Mixed Dry Recyclables
- Oily waste
- Oily rags
- Used filters
- Batteries
- Fluorescent bulb tubes
- WEEE
- Aerosols

The Scrap Metals skip and wood skip is located in the spindle car park.

Small bins are located around site for non-hazardous wastes. These bins are collected by a cleaning contractor and deposited in the appropriate bin in the Waste Collection Area.

Hazardous Waste will be removed off site by a designated and approved hazardous Waste Contractor.

Non-Hazardous Waste will be segregated and removed from site by a Non-Hazardous/Recycling Waste Contractor.

Applies to: Great Island CCGT Power Station	<b>Waste Management</b>	<b>WI-GTIS-SHE-004-008</b>
Internal	Uncontrolled if printed	Rev: 1.10

## Process

SSE Procurement purchasing procedures will cover tendering and appointment of the designated waste contractor.

If in any doubt about the nature of any wastes originating on site, please contact Environmental Coordinator.

Contractors are not permitted to deposit any waste material within the CCGT boundaries.

Any material brought into Great Island CCGT by the Contractor for use on site but subsequently not used or only partially used must be removed by the relevant contractor.

Any waste generated as a result of the Contractors work on site, should be disposed of via the Waste Management System in operation in the station.

For large Projects, Contractors must provide their own waste skips and organize disposal of waste through licensed waste contractors.

Waste from ships berthed at the Great Island CCGT Jetty, must be disposed of by the company, and not via the CCGT Waste Management System.

When planning a job, it is the Work Sponsor's responsibility to plan for any wastes resulting from the job and ensure their correct disposal.

### 3. Waste Register & Documentation

All Waste Collections are recorded in the Site Waste Register, **FO-GTIS-SHE-004-008-001**. This is a hard copy register, located in the Environmental Coordinator's office.

The following items must be recorded on the Waste Register;

1. Name of the Waste Stream
2. Volume of Waste
3. Name of Waste Contractor
4. Documentation number of associated Waste Forms.
5. The driver's licence and checking of Hazchem licence
6. Date of disposal of waste

The above Waste Documentation should be obtained from the licensed Waste Contractor prior to removal of any waste from Great Island CCGT Plant. Copies of Permits and Licences of each Waste must be retained in the Waste Register.

Page 4 of 12

Generation Work Instruction Standard Template  
FO-GEN-SHE-001-102 v3.00 February 2014  
PR-GEN-SHE-001-100



Applies to: Great Island CCGT Power Station	<b>Waste Management</b>	<b>WI-GTIS-SHE-004-008</b>
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## Process

### 4. Non-Hazardous Waste Documentation

Station Staff must retain a collection document from the Waste Contractor detailing the following information:

- Date:
- Customer Name:
- Name of Waste Stream:
- Driver Signature:
- Verification of driver's licence:
- Vehicle Registration Number:

### 5. Hazardous Waste Documentation

For Hazardous Waste the "Duty of Care" involves:

- Protecting and storing the waste properly. Hazardous Waste must be stored separately from other wastes.
- Providing a proper description of the waste in order to demonstrate that the Waste Management Hierarchy, Appendix C, has been complied with (recycle/re-use considered preferentially to treatment/disposal).
- Packing the waste properly. Hazardous Waste must be in separate packing from other waste.
- Checking the credentials of the receiver when transferring the waste.
- Completing and handing over a waste transfer form
- Being alert for any evidence or suspicion of illegal handling of the waste at any stage.
- Ensuring that the Carriage of Dangerous Goods (Road and Rail) regulatory requirements are duly appended to the documentation and that the waste has been checked by a Dangerous Goods Safety Advisor:
- It's illegal to mix a hazardous waste with either non-hazardous or another hazardous waste.

Hazardous Waste needs a written statement which forms part of the Hazardous Waste Transfer note demonstrating that the Waste Management Hierarchy, has been applied for each waste type being

Page 5 of 12

Generation Work Instruction Standard Template  
FO-GEN-SHE-001-102 v3.00 February 2014  
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Applies to: Great Island CCGT Power Station	<b>Waste Management</b>	<b>WI-GTIS-SHE-004-008</b>
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## Process

appended to the waste transfer note. This is the responsibility of the Contract Manager (although they can seek further advice from the Process Support Team)

It is the Law that Companies who wish to dispose of or move hazardous waste within the Republic of Ireland, must complete a Waste Transfer Form (WTF). The WTF is a Mandatory Consignment Document used for tracking and controlling the movement of Hazardous Waste within Ireland and is used to ensure that the consignment is delivered to an Authorised Facility. The completed WTF form is normally provided by the company collecting the Waste.

The WTF shall require the following information to be provided:

- Notifier name and address (Normally the Carrier)
- Date of Shipment
- Quantity of Waste being shipped
- Waste Generator
- EWC Codes and description of Waste
- Consignee (person accepting waste) must confirm details
- Signature of Notifier and Carrier

A copy of the WTF should be provided by the Carrier on arrival at Great Island CCGT, to collect the Specified Waste and this Copy shall be retained on site.

Several types of Waste can be land filled/recycled in Ireland or shipped abroad for Incineration. Such waste requires a Trans Frontier Shipment Form (TFS Form). The Waste Contractor will forward a copy when the disposal process is complete to the Work Sponsor.

The Trans Frontier Shipment (TFS) documentation consists of:

- A Notification Form and also a Tracking Movement Form.
- The Notification Form contains the following details:
- Waste Contractor
- The Origin
- Nature and quantity of the waste

Page 6 of 12

Applies to: Great Island CCGT Power Station	<b>Waste Management</b>	<b>WI-GTIS-SHE-004-008</b>
Internal	Uncontrolled if printed	Rev: 1.10

## Process

- The method of transport
- Waste producer (Relevant Local Authority)
- Consignee
- Any transit country

The Waste Register must be maintained by the Environmental Coordinator with up to date copies of waste Documentation, as they are required to be available for inspection by Environmental Protection Agency (EPA) and External Auditors at any time.

### 6. Approval of Waste Disposal Contractors

Waste disposal and recovery activities in Ireland are required to hold a Permit in accordance with the Waste Management Acts, 1996 to 2008 (Act). In order to ensure that every Contractor used is an Authorised Waste Contractor, the Environmental Coordinator maintains the Waste Management List FO-GTIS-SHE-004-008-002, which is reviewed and updated annually. The Environmental Coordinator also reviews all Waste Permits and appropriate Licences annually.

The Environmental Coordinator logs all Waste Records of Waste leaving Site. The Environmental Coordinator will also file all relevant WTF, TFS documents, disposal certificates etc. In the Environmental Coordinators office.

### 7. Legislation

Great Island Legislative Requirements and Compliance are tracked via the Pegasus online Legal Register. This process is detailed in WI-GTIS-SHE-001-004 SHE Legal Compliance.

Great Island is only allowed to store waste temporarily (no longer than 6 months) at the premises where it was produced; permanent storage is classed as landfill and requires an environmental permit which Great Island Power Station does not have.

### 8. Reporting

Waste data for the calendar year is submitted to the EPA annually in the Annual Environmental Report (AER).

Waste Reports are received monthly by email from the Main Waste Contractor.

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Process	
<b>9. Auditing</b>	<p>Great Island will audit Waste Contractors at least twice per year.</p> <p>Internally, the site is audited against RS-SHE-300 at least every three years.</p> <p>SHE Tours are conducted monthly by SSE staff. These audits will pick up any waste issues in the area being audited. This is detailed in WI-GTIS-SHE-014-001 Great Island Auditing.</p>

Accountabilities	
<b>Intent</b>	To define roles and responsibilities to help ensure that managers understand the roles required and their involvement to ensure compliance with this work instruction
<b>Responsibilities</b>	<p><b>Station Manager</b> is responsible for the correct implementation of this Instruction within their respective Location.</p> <p><b>Environmental Coordinator</b> is responsible for carrying out and ensuring that all Staff have the required training and awareness of Waste Management Procedures.</p> <p><b>Environmental/Chemical Technician</b> is responsible for ensuring that all procedures for the handling of waste at Great Island CCGT on a daily basis are managed in a safe and correct manner.</p> <p><b>Work Sponsor</b> is responsible for planning for any wastes resulting from their jobs and ensuring their correct disposal.</p> <p><b>All staff, contractors and visitors</b> are responsible for complying with this Work Instruction.</p>

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## Reference

### Key references required to follow this instruction

<b>RS-SHE-300</b>	Waste Management Standard
<b>FO-GTIS-SHE-004-008-001</b>	Waste Register
<b>FO-GTIS-SHE-004-008-002</b>	Waste Management List
<b>WI-GTIS-SHE-001-004</b>	SHE Legal Compliance
<b>WI-GTIS-SHE-014-001</b>	Great Island Auditing

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**Appendix A: Waste Codes**

Non-Hazardous Waste	EWC Code
General Non-Hazardous waste	20-03-01
Main Cooling Water Screenings	20-02-01
Scrap Metal Waste	17-04-07
Non-Hazardous Rockwool Lagging	20-03-01
Air Filters	20-03-01
Wood	17-02-01
Paper & Card	20-01-01
WEEE	Code Specific as Appropriate

Hazardous Waste	EWC Code
Oily Water	13-05-06
Fluorescent Light Tubes	20-01-21
Oily Waste (Rags and Filters)	15-02-02 / 16-01-07
Waste Oil	13-08-99
Lead Acid Batteries	16-06-01
Batteries – small, Ni - Ca, Alkaline, Mercury	20-01-33
Waste Chemicals	Code Specific as Appropriate
Used Chemical Drums	15-01-10
Wash Water effluent	16-10-01
Spent Ion Exchange Resin	19-09-05
WEEE	Code Specific as Appropriate

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**Appendix B Waste Locations**

**Waste Stream Locations**

**Metal and Wood Skips**

**General Waste, Dry Recyclables, Batteries, WEEE, Fluorescent Tubes, Solid Oily Waste, Oily Filters**

**General Waste Bins ONLY**

**Non-Oily Hazardous Waste ONLY**

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**sse**  
Great Island Generating Station,  
Co. Wicklow  
Tel: (028) 90 436 883  
Emergency Contact (Internal)  
Max personnel On Site (approx):  
Min Personnel On Site (approx):

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**Appendix C Waste Hierarchy**

