

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

ES FACILITIES MANAGEMENT LIMITED

Unit E
Melton Commercial Park
Melton Mowbray
United Kingdom
LE14 3JL

Variation application number

EPR/FB3905FE/V003

Permit number

EPR/FB3905FE

Unit E

Permit number EPR/FB3905FE

Introductory note

This introductory note does not form a part of the notice.

Under the Environmental Permitting (England & Wales) Regulations 2016 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

Schedule 1 of the notice specifies the conditions that have been varied and schedule 2 comprises a consolidated permit which reflects the variations being made. All the conditions of the permit have been varied and are subject to the right of appeal.

This permit variation has been issued to implement guidance “Waste electrical and electronic equipment (WEEE): appropriate measures for permitted facilities” (including additional guidance Waste temperature exchange equipment (WTEE): appropriate measures for permitted facilities).

Changes introduced by this variation notice/statutory review

The Industrial Emissions Directive (IED) came into force on 7 January 2014 with the requirement to implement all relevant Best Available Techniques (BAT) Conclusions as described in the Commission Implementing Decision. Article 21(3) of the IED requires the Environment Agency to review conditions in permits that it has issued and to ensure that the permit delivers compliance with relevant standards, within four years of the publication of updated decisions on Best Available Techniques (BAT) Conclusions. The BAT Conclusions for Waste Treatment (the BREF) was published on 17 August 2018 following a European Union wide review of BAT, implementing decision (EU) 2018/1147 of 10 August 2018.

The appropriate measures for WEEE were published on gov.uk on 13 July 2022. The guidance explains the standards that are relevant to regulated facilities with an environmental permit to treat or transfer relevant waste, providing indicative BAT for those sites.

This permit variation has been issued to update some of the conditions of the original permit following a statutory review of the permits in the WEEE treatment and transfer sector and to implement the appropriate measures guidance. The opportunity has also been taken to consolidate the original permit and subsequent variations where appropriate.

Brief description of the process

The site is permitted to undertake the processing of WEEE for recovery and the processing of fridges containing ozone depleting substances (ODS), Fluorinated gas (F gas) and/or hydrocarbon blown foam insulation for recovery.

The facility will comprise of the following operations:

Installation

- Processing of fridges (WTEE) containing ozone depleting substances (ODS), Fluorinated gas (F gas) and hydrocarbons (schedule 5.3 Part A (1) a) (ii));

Waste operations

- Dismantling and storage of waste electrical and electronic equipment (WEEE) for recovery;
- Shredding of non hazardous WEEE equipment at less than 75 tonnes per day.
- Temporary total site storage of hazardous waste of less than 50 tonnes at any one time, including all hazardous waste for the Installation schedule 5.3 Part A (1) a) (ii) activity and the WEEE waste operation.

Prior to this variation the permit also authorised the following activity:

- Crushing of compact fluorescent tubes containing mercury, in specifically designed plant (schedule 5.3 Part A (1) a) (ii))

The operator has confirmed that the fluorescent tube treatment activity never commenced, the equipment was never installed to undertake the activity and there is no intention to undertake the activity in the future. As such this activity was removed from the permit under this variation.

The installation and waste operations are located at SK 72293 20339. The nearest properties from the site are industrial units and offices to the north and north-west. The nearest built-up areas are Melton Mowbray, approximately 1.8km to the west and Ashfordby, approximately 1.5km to the southwest.

The site is permitted to receive up to a total of 29,000 tonnes per annum of waste in total for all activities/operations, which will mainly include fridges and general electronic equipment from domestic, industrial and commercial sources. All treatment will take place within a building, on an impermeable surface with sealed drainage and any liquids will be stored in tanks bunded to 110% of their capacity.

Waste is delivered to the site via road, which depending on its classification is either stored on the site's south yard or within the site's building prior to processing. WTEE will be manually dismantled to remove hazardous components prior to processing (e.g. compressors, blown foam containing ODS gases) and all these components will be separated out and stored within the building prior to offsite recovery.

WTEE will be degassed then subjected to the site's fridge processing plant which shreds fridge carcasses for recovery. The existing process includes a pre-shredder and treatment through a single Stage 2 treatment line consisting of a cross flow shredder and post-shredding materials separation. All Ozone Depleting Substance and hydrocarbon emissions produced within the shredding unit will be subject to appropriate abatement, and the post-shredding materials separation subject to dust abatement.

Storage of wastes received are within the site building or within the south yard of the site the drainage from which is fully contained by the site's sealed drainage systems from which there are no direct or in-direct emissions to water. Air emissions releases are via the WTEE treatment carbon adsorption abatement equipment serving the pre- shredding plant and main fridge shredding unit. There is also one dust extraction point source emission to air from the post-shredding materials separation processes fitted with an abatement system.

The schedules specify the changes made to the permit.

The status log of a permit sets out the permitting history, including any changes to the permit reference number.

Status log of the permit		
Description	Date	Comments
Application received EPR/CB3404TN/A001	Duly made 16/12/2014.	Application for standard rules SR2008No23
Standard rules permit determined EPR/CB3404TN (EAWML 402043)	23/12/2014	Permit issued to eSynergy Developments Limited
Application received EPR/CB3404TN/V002	Duly made 21/08/2015	Application to vary a standard rules permit (EAWML 402043) to a bespoke waste operation and add an installation.
Additional information received	21/08/2015	Compact fluorescent tubes operating techniques, Site layout plan and confirmation of emissions points.
Response to Schedule 5 Notice dated 21/08/2015	15/09/2015	Operating techniques, fire prevention plan Emissions assessment.

Status log of the permit		
Description	Date	Comments
Response to Schedule 5 Notice dated 05/10/2015	14/10/2015	Operating techniques, site drainage, fire prevention plan and emissions assessment.
Response to Schedule 5 Notice dated 26/10/2015	04/11/2015	Operating techniques, confirmation of fire suppressions system and confirmation of sealed drainage. Revised Fire Prevention Plan.
Additional information	05/11/2015	Confirmation of sealed drainage.
Permit determined EPR/CB3404TN (Billing References: EAWML402043, KP3237AC)	06/01/2016	Variation notice issued to eSynergy Development Limited
Application EPR/FB3905FE/T001 (full transfer of permit EPR/CB3404TN)	Duly made 11/01/18	Application to transfer the permit in full to eSynergy Technologies Limited.
Transfer determined EPR/FB3905FE	26/02/18	Full transfer of permit complete.
Notified of change of Company Name	11/06/18	Name changed to ES Facilities Management Limited
Variation issued EPR/FB3905FE/V002	20/06/18	Varied permit issued to ES Facilities Management Limited
Regulation 61 Notice sent to Operator	20/04/2022	Regulation 61 Notice requiring information for statutory review of permit.
Regulation 61 Notice response	29/08/2022	Response received from the operator.
Environment Agency initiated variation and consolidation EPR/FB3905FE/V003	Environment Agency Initiated Variation	Statutory review of permit occasioned by Waste Treatment BAT Conclusions published on 17 August 2018 and Waste electrical and electronic equipment (WEEE): appropriate measures for permitted facilities published 13 July 2022.
Request for information (RFI) response from operator.	14/12/2023	RFI response to inform permit review.
Request for information (RFI) response from operator	08/02/2024	RFI response to inform permit review.
Request for information (RFI) response from operator.	11/04/2024	RFI response to inform permit review.
Environment Agency Waste Treatment Sector Review Permit reviewed Variation determined	04/12/2024	Varied and consolidated permit issued.

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies and consolidates

Permit number

EPR/FB3905FE

Issued to

ES FACILITIES MANAGEMENT LIMITED (“the operator”)

whose registered office is

Unit E

Melton Commercial Park

Melton Mowbray

United Kingdom

LE14 3JL

company registration number 10868316

to operate a regulated facility at

Unit E

Melton Commercial Park

Melton Mowbray

United Kingdom

LE14 3JL

to the extent set out in the schedules.

The notice shall take effect from 04/12/2024

Name	Date
Hannah Finney	04/12/2024

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied by the consolidated permit as a result of an Environment Agency initiated variation.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/FB3905FE

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/FB3905FE/V003 authorising,

ES FACILITIES MANAGEMENT LIMITED (“the operator”),

whose registered office is

Unit E

Melton Commercial Park

Melton Mowbray

United Kingdom

LE14 3JL

company registration number 10868316

to operate an installation at

Unit E

Melton Commercial Park

Melton Mowbray

United Kingdom

LE14 3JL

to the extent authorised by and subject to the conditions of this permit.

Name	Date
Hannah Finney	04/12/2024

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

1.1.1 The operator shall manage and operate the activities:

- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
- (b) using sufficient competent persons and resources.

1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.

1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

1.1.4 The operator shall comply with the requirements of an approved competence scheme.

1.2 Energy efficiency

1.2.1 For the following activity referenced in schedule 1, table S1.1 AR1 the operator shall:

- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
- (b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
- (c) take any further appropriate measures identified by a review.

1.3 Efficient use of raw materials

1.3.1 For the following activity referenced in schedule 1, table S1.1 AR1 the operator shall:

- (a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
- (b) maintain records of raw materials and water used in the activities;
- (c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and
- (d) take any further appropriate measures identified by a review.

1.4 Avoidance, recovery and disposal of wastes produced by the activities

1.4.1 The operator shall take appropriate measures to ensure that:

- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
- (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
- (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.

- 1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

2 Operations

2.1 Permitted activities

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the “activities”).
- 2.1.2 Wastes authorised by this permit shall be clearly distinguished from any other waste on the site.

2.2 The site

- 2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.

2.3 Operating techniques

- 2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2 to S1.5, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 to S1.5, or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.3 All activities shall take place on impermeable surfaces with sealed drainage, unless otherwise specified in Table S1.1 or agreed in writing with the Environment Agency.
- 2.3.4 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.5 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 table(s) S2.2, S2.3, S2.4, and S2.5; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.6 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
- (a) the nature of the process producing the waste;
 - (b) the composition of the waste;
 - (c) the handling requirements of the waste;
 - (d) the hazardous properties associated with the waste, if applicable; and
 - (e) the waste code of the waste.
- 2.3.7 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.
- 2.3.8 For the activity referenced as AR1 in schedule 1, table S1.1 where any of the following situations arise, the operator shall, as soon as is practicable, cease the treatment of waste until normal operation can be restored:

- (a) failure of the contained environment; or
- (b) breach of a relevant Lower Explosive Limit (LEL) or Limiting Oxygen Concentration (LOC).

2.3.9 Following the cessation of treatment under condition 2.3.8 the operator shall not recommence treatment unless:

- (a) the failed equipment is repaired and brought back into normal operation; and
- (b) gas concentrations remain below any relevant lower explosive limit or limiting oxygen concentration.

2.4 Hazardous waste storage and treatment

2.4.1 Hazardous waste shall not be mixed, either with a different category of hazardous waste or with other waste, substances or materials, unless it is authorised by schedule 1 table S1.1 and appropriate measures are taken.

2.5 WEEE treatment

2.5.1 As a minimum, the substances, preparations and components specified in table S1.3 shall be removed from any WEEE unless the WEEE is being prepared for re-use or the operator has taken appropriate measures to ensure their removal following transfer off site.

2.5.2 Unless otherwise agreed in writing by the Environment Agency, WEEE and components of WEEE shall be treated in accordance with the methods and standards specified in table S1.4, unless it is being prepared for re-use or the operator has taken appropriate measures to ensure such treatment following transfer off site.

2.6 Improvement programme

2.6.1 The operator shall complete the improvements specified in schedule 1 table S1.5 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.

2.6.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

3 Emissions and monitoring

3.1 Emissions to water, air or land

3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1 and S3.2.

3.1.2 The limits given in schedule 3 shall not be exceeded.

3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.2 Emissions of substances not controlled by emission limits

3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.

3.2.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
- (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.3 Odour

3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.

3.3.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
- (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.4 Noise and vibration

3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.

3.4.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
- (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.5 Monitoring

3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:

- (a) point source emissions specified in tables S3.1 and S3.2; and
- (b) process monitoring specified in table S3.3.

3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.

3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall

have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.

- 3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1, S3.2 and S3.3 unless otherwise agreed in writing by the Environment Agency.

3.6 Pests

- 3.6.1 The activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved pests management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.
- 3.6.2 The operator shall:
- (a) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a pests management plan which identifies and minimises risks of pollution, hazard or annoyance from pests;
 - (b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.7 Fire prevention

- 3.7.1 The operator shall take all appropriate measures to prevent fires on site and minimise the risk of pollution from them including, but not limited to, those specified in any approved fire prevention plan.

4 Information

4.1 Records

- 4.1.1 All records required to be made by this permit shall:
- (a) be legible;
 - (b) be made as soon as reasonably practicable;
 - (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
 - (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
 - (i) off-site environmental effects; and
 - (ii) matters which affect the condition of the land and groundwater.
- 4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.

- 4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:
- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
 - (b) the annual production /treatment data set out in schedule 4 table S4.2; and
 - (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.
- 4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
 - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.
- 4.2.5 Within one month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous year.

4.3 Notifications

- 4.3.1 In the event:
- (a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
 - (i) inform the Environment Agency,
 - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
 - (iii) take the measures necessary to prevent further possible incidents or accidents;
 - (b) of a breach of any permit condition the operator must immediately—
 - (i) inform the Environment Agency, and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
 - (c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.
- 4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this

information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.

4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

- (a) any change in the operator's trading name, registered name or registered office address; and
- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

- (a) any change in the operator's name or address; and
- (b) any steps taken with a view to the dissolution of the operator.

In any other case:

- (a) the death of any of the named operators (where the operator consists of more than one named individual);
- (b) any change in the operator's name(s) or address(es); and
- (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:

- (a) the Environment Agency shall be notified at least 14 days before making the change; and
- (b) the notification shall contain a description of the proposed change in operation.

4.3.6 The Environment Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.

4.3.7 Where the operator has entered into a climate change agreement with the Government, the Environment Agency shall be notified within one month of:

- (a) a decision by the Secretary of State not to re-certify the agreement;
- (b) a decision by either the operator or the Secretary of State to terminate the agreement; and
- (c) any subsequent decision by the Secretary of State to re-certify such an agreement.

4.4 Interpretation

4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.

4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "immediately", in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
AR1	S5.3 A(1) (a) (ii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment.	Treatment of waste temperature exchange equipment, involving stage 1 degassing and stage 2 destruction processes R3: Recycling/reclamation of organic substances which are not used as solvents R4: Recycling/reclamation of metals and metal compounds R5: Recycling/reclamation of other inorganic materials	From treatment of waste by degassing and destruction within pre-shredder and treatment through a single Stage 2 treatment line consisting of a cross flow shredder and post-shredding materials separation to storage of treated waste. Treatment via: <ul style="list-style-type: none"> • degassing of equipment, with collection of oil and refrigerant gas • pre-shredding plant • mechanical destruction of degassed equipment and dismantled insulation panels, including the sorting, separation of plastic, metal and foam fractions, and treatment of foam to remove and capture the blowing agent using carbon filters. To the storage of processed wastes and materials prior to transfer off site. Treatment of refrigeration units shall be carried out within a building provided with weatherproof covering, within treatment plant as shown on the Site Plan within Schedule 7. Waste types suitable for acceptance are limited to those wastes specified in Table S2.2. No more than 62.4 tonnes of waste shall be shredded per day under activity AR1. The total annual throughput for all site activities combined shall not exceed 29,000 tonnes per annum.
Directly Associated Activities			
AR2	Storage of waste pending on-site treatment	R13: Storage of waste pending the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	From receipt of waste to storage of waste prior to treatment by AR1. Except for WEEE awaiting manual sorting, manual dismantling, repair or refurbishment only, the maximum total quantity of hazardous waste that can be stored at the site shall not exceed 50 tonnes at any one time in combination for all activities. All storage of waste containing hazardous components, other than WTEE equipment will be provided with a weatherproof covering. WTEE must be stored on level ground and on an impermeable surface provided with sealed drainage. WTEE shall not be stored for more than 3 months without prior written approval from the Environment Agency. All other hazardous waste storage pending treatment shall not exceed 6 months, without prior written approval from the Environment Agency.

			Storage of WTEE shall not exceed a maximum storage height of 3.6 metres. Waste types suitable for acceptance are limited to those specified in Table S2.2.
A3	Baling of metal	Baling of metals to assist transport offsite	Baling of metals produced by the refrigerator shredding plant.
A4	Storage of processed materials	R13: Storage of waste pending the operations numbered R4 and R5 (excluding temporary storage, pending collection, on site where it is produced).	From storage of processed materials to despatch off site for recovery. Storage of separated ferrous, non-ferrous metals, polyurethane foam, oil refrigerants, blowing agents and other fractions following treatment. Subject to any other requirements of this permit, storage for no more than 6 months prior to despatch from site.
AR5	Raw materials storage	Storage of raw materials including nitrogen and diesel.	From the receipt of raw materials to despatch for use within the facility.
AR6	Electrical power supply	Diesel-fired generator – net thermal input <1.0 MWth.	Includes oil receipt and storage, no fuel shall be used other than diesel.
AR7	Dust abatement system	Dust extraction and abatement system serving post-Stage 2 shredding treatment outputs separation processes, from the plant operated under AR1.	

Waste Operations

Activity reference	Description of activities for waste operations	Limits of activities
AR8	Storage, transfer and manual treatment of WEEE 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) R3: Recycling/ reclamation of organic substances which are not used as solvents R4: Recycling/ reclamation of metals and metal compounds R5: Recycling/ reclamation of other inorganic compounds	Storage and transfer or treatment operations consisting only of sorting, dismantling, separation, repair or refurbishment. There shall be no treatment of hazardous waste other than for sorting and separation from other waste streams, repair or refurbishment, or manual dismantling only. Treatment of WEEE shall be carried out within a building provided with a weatherproof covering. WEEE that is POPs waste must not be repaired or refurbished for re-use. Buildings, covered areas or containers shall meet the following requirements: <ul style="list-style-type: none"> • buildings, covered areas, or containers shall be designed, constructed and maintained to prevent ingress of rain and surface water; • rain and uncontaminated surface water shall be kept separate from contaminated water and other liquids;

		<ul style="list-style-type: none"> • containers containing waste shall be stored on an impermeable surface with sealed drainage system. <p>Except for WEEE awaiting manual sorting, manual dismantling, repair or refurbishment only the maximum quantity of hazardous waste (in aggregate for all site activities) that can be stored at the site shall not exceed 50 tonnes at any one time.</p> <p>The total amount of waste to be stored at the site excluding WTEE shall not exceed 140 tonnes at any one time.</p> <p>All batteries shall be stored in either appropriate weatherproof containers, or in appropriate containers within a building on an impermeable surface with a sealed drainage system.</p> <p>Lead acid batteries shall be stored upright with terminals taped off or capped in acid proof containers to prevent leaks and short circuits.</p> <p>Nickel metal hydride (Ni-MH) batteries shall be stored in a way that will prevent them being damaged.</p> <p>Li-ion batteries from electric vehicles shall be stored separately from other batteries.</p> <p>Li-ion batteries shall be stored to prevent them from:</p> <ul style="list-style-type: none"> • coming into contact with any liquids • being damaged or shorting • being exposed to high temperatures <p>Batteries shall be stored on site for no longer than 6 months.</p> <p>Storage of refrigeration units shall not exceed a maximum storage height of 3.6 metres.</p> <p>Fluorescent lamps limited to storage and transfer only. Storage of fluorescent lamps shall be within rigid sealed containers.</p> <p>The storage capacity for CRT equipment shall not exceed 10 tonnes at any one time.</p> <p>The storage capacity for flat panel display equipment shall not exceed 10 tonnes at any one time.</p> <p>CRT equipment shall be stored in cages, bulk bags or securely on pallets to prevent breakage.</p> <p>All flat panel display equipment shall be stored in cages, stillages or securely on pallets.</p> <p>Flat panel display equipment which may contain cold cathode fluorescent backlights shall be stored under weatherproof covering.</p> <p>All storage of waste containing hazardous components, other than WTEE equipment will be provided with a weatherproof covering.</p> <p>Subject to any other requirements of this permit, wastes shall be stored for no longer than 6 months.</p> <p>Waste types suitable for acceptance are limited to those specified in Table S2.4 and S2.5. The total annual throughput for all site activities combined shall not exceed 29,000 tonnes per annum.</p>
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<p>AR9</p>	<p>Mechanical treatment of non-hazardous WEEE and metal wastes</p> <p>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)</p> <p>R3: Recycling/ reclamation of organic substances which are not used as solvents.</p> <p>R4: Recycling/ reclamation of metals and metal compounds</p> <p>R5: Recycling/ reclamation of other inorganic compounds</p>	<p>Treatment operations shall be limited to:</p> <ul style="list-style-type: none"> • Treatment of non-hazardous waste on site for recovery (no more than 75 tonnes per day) • Treatment consisting only of shredding, separation, screening, grading, baling, shearing, compacting, crushing, or cutting of waste into different components for recovery. <p>Treatment of WEEE shall be carried out within a building provided with a weatherproof covering within treatment plant as shown on the Site Plan within Schedule 7.</p> <p>Buildings, covered areas or containers shall meet the following requirements:</p> <ul style="list-style-type: none"> • buildings, covered areas, or containers shall be designed, constructed and maintained to prevent ingress of rain and surface water; • rain and uncontaminated surface water shall be kept separate from contaminated water and other liquids; • containers containing waste shall be stored on an impermeable surface with sealed drainage system. <p>Subject to any other requirements of this permit, wastes shall be stored for no longer than 6 months.</p> <p>Waste types suitable for acceptance are limited to those specified in Table S2.3. The total annual throughput for all site activities combined shall not exceed 29,000 tonnes per annum.</p>
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Table S1.2 Operating techniques		
Description	Parts	Date Received
Application EPR/CB3404TN/V002	Part C3 Section 3a – Technical Standards and all referenced supporting documentation. Degassing Overview Ref: eSynergy03	21/08/2015
Additional information	Compact Fluorescent tubes operating techniques, revised site layout plan and confirmation of emissions points.	21/08/2015
Response to Schedule 5 Notice dated 21/08/2015	Responses to all questions.	15/09/2015
Response to Schedule 5 Noticed dated 05/10/2015	Responses to all questions.	14/10/2015
Response to Schedule 5 Noticed dated 26/10/2015	Responses to all questions. Confirmation of sealed drainage. Fire Risk Assessment and Fire Prevention Plan reference 0.1 (Version received 04/11/2015).	04/11/2015
Additional information	Confirmation that sluice gate, which is in place to cut off the discharge of surface water runoff to the interceptor, will remain in a closed position to seal the drainage from the south yard.	05/11/2015
Response to Regulation 61 Notice dated 29/08/2022	Regulation 61 Notice response and Site Plan.	29/08/2022
Updated response to Regulation 61 Notice dated 14/04/2023	Regulation 61 Notice response, excluding inclusion of second fridge treatment line and increase in capacity.	14/04/2023.
Waste electrical and electronic equipment (WEEE): appropriate measures for permitted facilities Version published 13 July 2022	All parts of the appropriate measures guidance shall apply. All parts of the appropriate measures guidance shall apply other than those parts to which an improvement programme requirement applies in Table S1.3 and until the agreed completion date for that improvement.	
Waste temperature exchange equipment: appropriate measures for permitted facilities Version published 13 July 2022	All parts of the appropriate measures guidance shall apply. All parts of the appropriate measures guidance shall apply other than those parts to which an improvement programme requirement applies in Table S1.3 and until the agreed completion date for that improvement;	
RFI response	Response to question 2 operator confirmation that site generator is <1MWh and therefore not MCP, response to question 3 operator confirmation that mechanical treatment of compact fluorescent tubes containing mercury never commenced at site, response to question 8 confirmation pyrolysis unit on site was decommissioned in 2016. Excluding	14/12/2023

Table S1.2 Operating techniques		
Description	Parts	Date Received
	site plan, and details of additional Stage 2 treatment plant	
RFI response	Response Q2 regarding wastes other than WTEE treated in the shredder, response Q3 regarding process for the liberation of blowing agent from foam insulation, response Q4 regarding dust abatement from post-shredding process. Excluding site plan, and details of additional Stage 2 treatment plant.	08/02/2024
RFI response	Confirmation of removal of specific EWC waste codes from Table S2.6 Permitted waste types and quantities for waste storage and transfer. Excluding Site Plan, and details of additional Stage 2 treatment plant	11/04/2024

Table S1.3 Substances, preparations and components to be removed during treatment from WEEE
<ul style="list-style-type: none"> • Capacitors containing polychlorinated biphenyls in accordance with Council Directive 96/59/EC of 16 September 1996 on the disposal of polychlorinated biphenyls and polychlorinated terphenyls (PCB/PCT) • Mercury-containing components, such as switches or backlighting lamps • Batteries • Printed circuit boards of mobile phones generally, and of other devices if the surface of the printed circuit board is greater than 10 square centimetres • Toner cartridges, liquid and paste, as well as colour toner • Plastic containing brominated flame retardants • Asbestos waste and components which contain asbestos • Cathode ray tubes • Chlorofluorocarbons (CFC), hydrochlorofluorocarbons (HCFC), hydrofluorocarbons (HFC), or hydrocarbons (HC) • Gas discharge lamps • Liquid crystal displays (together with their casing where appropriate) of a surface greater than 100 square centimetres and all those back-lighted with gas discharge lamps • External electric cables • Components containing refractory ceramic fibres as described in REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. • Components containing radioactive substances with the exception of components that are below the exemption thresholds set in Article 3 of and the Annex I to Council Directive 96/29/Euratom of 13 May 1996 laying down basic safety standards for the protection of the health of workers and the general public against the dangers arising from ionising radiation • Electrolyte capacitors containing “substances of concern” (height > 25mm, diameter > 25mm or proportionately similar volume)

Table S1.4 Specified treatment methods and standards for the treatment of WEEE and components of WEEE	
Stage 1) Pre-destruction treatment (degassing) of WTEE	<p>Refrigerants and oils must be properly extracted and treated. Ozone depleting gases must be treated in accordance with Regulation (EC) No 1005/2009.</p> <p>Degassing of the refrigeration cooling system must be undertaken in a manner that results in the removal of at least 99% of the refrigerant and the oil from the cooling circuit.</p> <p>The degassing of WTEE must be undertaken in a way that prevents fugitive losses of refrigerant and achieves the following refrigerant recovery rate:</p> <ul style="list-style-type: none"> 90% or more, based upon a mass balance calculation, as set out in Waste temperature exchange equipment: appropriate measures for permitted facilities <p>The oil removed from the cooling circuit must be treated to ensure that the concentration of refrigerant in the oil is <0.9% w/w unless it is transferred immediately to a suitable sealed container to prevent fugitive emissions and sent for further refrigerant recovery or destruction.</p>
Stage 2) WTEE and insulation panel destruction	<p>VFC and VHC blowing agents must be properly extracted and treated. Ozone depleting gases must be treated in accordance with Regulation (EC) No 1005/2009.</p> <p>WTEE must not be subject to the destruction process unless treated to the appropriate Stage 1 pre-destruction standards specified above.</p> <p>The destruction of WTEE and insulation panels must be undertaken in a contained environment that prevents fugitive losses of blowing agent and achieves the following blowing agent removal and recovery rates:</p> <ul style="list-style-type: none"> 90% or more, based upon an annual assessment of a representative sample of the WTEE treated ^{Note 1} 80% or more, based upon a monthly assessment of the WTEE treated that period ^{Note 1} <p>Residual materials resulting from the destruction of WTEE and insulation panels must meet the specified standards below:</p> <ul style="list-style-type: none"> Metal – The quantity of foam remaining in the granulated ferrous and non-ferrous metal fractions after treatment shall not exceed 0.5% w/w Plastic – The quantity of foam remaining in the granulated plastic fraction after treatment shall not exceed 1% w/w Foam – The quantity of residual blowing agent remaining in the polyurethane foam after treatment shall not exceed 0.2% w/w <p>^{Note 1} As set out in Waste temperature exchange equipment: appropriate measures for permitted facilities</p>

Table S1.5 Improvement programme requirements		
Reference	Requirement	Date
IC6 Assessment of emissions to air	The operator shall submit a written report to the Environment Agency for approval that proposes a monitoring programme to characterise and assess the facility's point source emissions to air and water (including sewer) in accordance with the Emissions monitoring and limits appropriate measures of technical guidance Waste electrical and electronic	Submission of written report proposing monitoring programme 04/02/2024

Table S1.5 Improvement programme requirements		
	<p>equipment: appropriate measures for permitted facilities, dated 13 July 2022.</p> <p>The report shall detail the parameters and substances that will be tested for, the monitoring methods and equipment that will be used, and a timetable for undertaking the monitoring. [Monitoring of emissions to air from emissions point(s) A1 and A2 shall include speciated VOCs. The monitoring programme shall be carried out as approved by the Environment Agency.</p> <p>A written report shall submitted to the Environment Agency for approval detailing the results and conclusions of the emissions monitoring and assessment undertaken, including a completed H1 Environmental Risk Assessment and proposals for any ongoing monitoring or further assessment</p>	<p>Submission of subsequent written report detailing monitoring and assessment results 04/06/2024</p>
IC7 Monitoring fridge plant refrigerant and blowing agent emissions	<p>The operator shall submit a written monitoring plan to the Environment Agency for approval.</p> <p>The plan must contain proposals for a comprehensive monitoring exercise to demonstrate that the single line pre-shredding, stage 1 and stage 2 treatment of WTEE and insulation panels does not give rise to fugitive releases to air of refrigerant or blowing agent gases (i.e. CFCs, HCFCs, HFCs or HCs).</p> <p>The operator shall carry out the monitoring exercise and submit a report in accordance with the Environment Agency's written approval.</p> <p>The operator will give the Environment Agency at least fourteen days notice of the commencement of the monitoring exercise.</p> <p>The Environment Agency will be notified immediately if any fugitive releases are detected during the monitoring exercise.</p>	04/06/2024
IC8 Fire Prevention Plan	<p>FPP The operator shall review and resubmit an updated written plan to the Environment Agency for assessment and written approval. The plan shall take into account the Environment Agency guidance Fire prevention plans: environmental permits, the permit limitations for waste storage and all appropriate measures for fire prevention specified in the Environment Agency's guidance:</p> <ul style="list-style-type: none"> • Waste electrical and electronic equipment (WEEE): appropriate measures for permitted facilities • Waste temperature exchange equipment: appropriate measures for permitted facilities 	04/06/2024

Schedule 2 – Waste types, raw materials and fuels

Raw materials and fuel description	Specification
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Maximum Quantities	Annual throughput for all permitted activities on this site, inclusive of all waste types outlined in tables S2.2, S2.3, S2.4, and S2.5 shall not exceed 29,000 tonnes.
Exclusions	Wastes having any of the following characteristics shall not be accepted: Consisting solely or mainly of dusts, powders or loose fibres.
Waste Code	Description
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 02	wastes from electrical and electronic equipment
16 02 11*	discarded equipment containing chlorofluorocarbons, HCFC, HFC
16 02 13*	discarded equipment containing hazardous components other than those mentioned in 16 02 09 to 16 02 12
16 02 14	discarded equipment other than those mentioned in 16 02 09 to 16 02 13
17	Construction and demolition wastes (including excavated soil from contaminated sites)
17 06	insulation materials and asbestos-containing construction materials
17 06 03*	other insulation materials consisting of or containing hazardous substances - foam insulation panel containing CFC, HCFC, HFC
17 06 04	insulation materials other than those mentioned in 17 06 01 and 17 06 03
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01	separately collected fractions (except 15 01)
20 01 23*	discarded equipment containing chlorofluorocarbons
20 01 35*	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components
20 01 36	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35

Table S2.3 Permitted Waste types and quantities for Mechanical treatment of non-hazardous WEEE and metal wastes	
Maximum Quantities	Annual throughput for all permitted activities on this site, inclusive of all waste types outlined in tables S2.2, S2.3, S2.4, and S2.5 shall not exceed 29,000 tonnes.
Exclusions	Wastes having any of the following characteristics shall not be accepted: Consisting solely or mainly of dusts, powders or loose fibres
Waste Code	Description
15	Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified
15 01	packaging (including separately collected municipal packaging waste)
15 01 04	metallic packaging
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 02	wastes from electrical and electronic equipment
16 02 14	discarded equipment other than those mentioned in 16 02 09 to 16 02 13
19	Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 02	ferrous metal
19 12 03	non-ferrous metal
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01	separately collected fractions (except 15 01)
20 01 36	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35
20 01 40	metals

Table S2.4 Permitted waste types and quantities for Manual dismantling of hazardous WEEE	
Maximum Quantities	Annual throughput for all permitted activities on this site, inclusive of all waste types outlined in tables S2.2, S2.3, S2.4, and S2.5 shall not exceed 29,000 tonnes.
Exclusions	Wastes having any of the following characteristics shall not be accepted: Consisting solely or mainly of dusts, powders or loose fibres.
Waste Code	Description
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 02	wastes from electrical and electronic equipment
16 02 10*	discarded equipment containing or contaminated by PCBs other than those mentioned in 16 02 09
16 02 11*	discarded equipment containing chlorofluorocarbons, HCFC, HFC

16 02 13*	discarded equipment containing hazardous components other than those mentioned in 16 02 09 to 16 02 12
16 02 15*	hazardous components removed from discarded equipment
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01	separately collected fractions (except 15 01)
20 01 21*	fluorescent tubes and other mercury-containing waste
20 01 23*	discarded equipment containing chlorofluorocarbons
20 01 35*	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components

Table S2.5 Permitted waste types and quantities for waste storage and transfer	
Maximum quantity	Annual throughput Annual throughput for all permitted activities on this site, inclusive of all waste types outlined in tables S2.2, S2.3, S2.4, and S2.5 shall not exceed 29,000 tonnes
Exclusions	Wastes having any of the following characteristics shall not be accepted: - Consisting solely or mainly of dusts, powders, or loose fibres
Waste code	Description
13	Oil wastes and wastes of liquid fuels (except edible oils, and those in chapters 05, 12 and 19)
13 02	waste engine, gear and lubricating oils
13 02 08*	other engine, gear and lubricating oils
14	Waste organic solvents, refrigerants and propellants (except 07 and 08)
14 06	waste organic solvents, refrigerants and foam/aerosol propellants
14 06 01*	chlorofluorocarbons, HCFC, HFC
15	Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified
15 01	packaging (including separately collected municipal packaging waste)
15 01 02	plastic packaging
15 01 03	wooden packaging
15 01 04	metallic packaging
15 01 05	composite packaging
15 01 06	mixed packaging
15 01 07	glass packaging
15 01 10*	packaging containing residues of or contaminated by hazardous substances
15 01 11*	metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers
15 02	absorbents, filter materials, wiping cloths and protective clothing
15 02 02*	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances

Table S2.5 Permitted waste types and quantities for waste storage and transfer	
Maximum quantity	Annual throughput Annual throughput for all permitted activities on this site, inclusive of all waste types outlined in tables S2.2, S2.3, S2.4, and S2.5 shall not exceed 29,000 tonnes
Exclusions	Wastes having any of the following characteristics shall not be accepted: - Consisting solely or mainly of dusts, powders, or loose fibres
Waste code	Description
16	Wastes not otherwise specified in the list
16 02	wastes from electrical and electronic equipment
16 02 09*	transformers and capacitors containing PCBs
16 02 10*	discarded equipment containing or contaminated by PCBs other than those mentioned in 16 02 09
16 02 11*	discarded equipment containing chlorofluorocarbons, HCFC, HFC
16 02 12*	discarded equipment containing free asbestos
16 02 13*	discarded equipment containing hazardous components other than those mentioned in 16 02 09 to 16 02 12
16 02 14	discarded equipment other than those mentioned in 16 02 09 to 16 02 13
16 02 15*	hazardous components removed from discarded equipment
16 02 16	components removed from discarded equipment other than those mentioned in 16 02 15
16 06	batteries and accumulators
16 06 01*	lead batteries
16 06 02*	Ni-Cd batteries
16 06 03*	mercury-containing batteries
16 06 04	alkaline batteries (except 16 06 03)
16 06 05	other batteries and accumulators
17	Construction and demolition wastes (including excavated soil from contaminated sites)
17 06	insulation materials and asbestos-containing construction materials
17 06 03*	other insulation materials consisting of or containing hazardous substances
17 06 04	insulation materials other than those mentioned in 17 06 01 and 17 06 03
19	Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 01	paper and cardboard
19 12 02	ferrous metal
19 12 03	non-ferrous metal
19 12 04	plastic and rubber
19 12 05	glass
20	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions
20 01	separately collected fractions (except 15 01)

Table S2.5 Permitted waste types and quantities for waste storage and transfer	
Maximum quantity	Annual throughput Annual throughput for all permitted activities on this site, inclusive of all waste types outlined in tables S2.2, S2.3, S2.4, and S2.5 shall not exceed 29,000 tonnes
Exclusions	Wastes having any of the following characteristics shall not be accepted: - Consisting solely or mainly of dusts, powders, or loose fibres
Waste code	Description
20 01 21*	fluorescent tubes and other mercury-containing waste
20 01 23*	discarded equipment containing chlorofluorocarbons
20 01 33*	batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries
20 01 34	batteries and accumulators other than those mentioned in 20 01 33
20 01 35*	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components
20 01 36	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35
20 01 39	plastics
20 01 40	metals

Schedule 3 – Emissions and monitoring

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1, as shown on the Site Plan within Schedule 7.	Exhaust from emissions control system from WTEE treatment.	Dust	5 mg/m ³	Average value of 3 consecutive measurements of at least 30 minutes	6 monthly	EN 13284-1
		CFCs	10 mg/m ³	Average value of 3 consecutive measurements of at least 30 minutes	6 monthly	Following CEN/TS 13649
		Total VOCs (concentration)	15 mg/m ³	Average value of 3 consecutive measurements of at least 30 minutes	6 monthly	EN 12619
		Total VOCs (mass emission)	Mass loss limit, set on a pro-rata basis, based upon a mass limit of 5g per 100 units treated per hour	Average value of 3 consecutive measurements of at least 30 minutes	Monthly for first 6 months then quarterly with written agreement from the Environment Agency	EN 12619
		Air flow	-	Average value of 3 consecutive measurements of at least 30 minutes?	Monthly for first 6 months then quarterly with written agreement from the Environment Agency	EN 16911-1
		Brominated flame retardants	-	Average value of 3 consecutive measurements of at least 30 minutes	Annually ^{Note 1}	BS EN 1948
		Dioxin-like polychlorinated biphenyls (PCBs)	-	Average value of 3 consecutive measurements of at least 30 minutes	Annually ^{Note 1}	EN 1948-1, 2, 4.

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
		Metals (As, Cd, Co, Cr, Cu, Mn, Ni, Pb, Sb, Se, Ti, V)	-	Average value of 3 consecutive measurements of at least 30 minutes	Annually ^{Note 1}	EN 14385
		Dioxins and furans (PCDD/F)	-	One sampling period of at least 6 hours.	Annually ^{Note 1}	EN 1948-1, 2, 3
A2, as shown on the Site Plan within Schedule 7.	Dust control system exhaust for WTEE plant materials separation process.	Total Suspended particulates	5 mg/m ³ or other level agreed in writing with the Environment Agency	Hourly average	Quarterly or other frequency agreed in writing with the Environment Agency	BS EN 13284-1
A3, as shown on the Site Plan within Schedule 7.	Generator exhaust (table S1.1 activity AR6).	No parameters set	--	--	--	--
A4, as shown on the Site Plan within Schedule 7.	Fuel storage tank vents	No parameters set	--	--	--	--

Note 1: An alternative monitoring frequency may be agreed in writing with Environment Agency following completion of IC6.

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 on site plan in schedule 7 emission to Surface Water drains	Uncontaminated site source water from the north yard.	Oil or Grease	None visible	-	Daily	Visual assessment
South yard sealed drainage system – no emission	NA.	No parameter set	No limit set	--	--	--

Table S3.3 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
WTEE Stage 1 degassing WTEE degassed	WTEE unit type Refrigerant type Number of defective	Daily	Record of each unit degassed	Type 1 - 4 VHC, VFC or other (e.g. ammonia) -
Stage 1 degassing Quantity of refrigerant recovered	Quantity of refrigerant collected over reporting period	Quarterly	Weighed using calibrated scales of appropriate precision	-
WTEE Stage 1 degassing Compressor oil	Concentration of refrigerant in the oil (% w/w)	Quarterly	Independent conformance testing in accordance with Section 6 (process monitoring) of Waste temperature exchange equipment: appropriate measures for permitted facilities	Assessment must be undertaken using a representative composite sample, consisting of at least 3 individual samples. Sample analysis must be carried out by an appropriately accredited independent laboratory (for example, UKAS accredited) and using recognised accredited methods if they are available.
WTEE Stage 1 degassing Refrigerant recovery rate	Refrigerant recovery, based upon mass balance calculation	6 monthly	In accordance with Section 6 (process monitoring) of Waste temperature exchange equipment: appropriate measures for permitted facilities	Based upon a representative sample of WTEE treated
WTEE Stage 2 destruction WTEE treated	WTEE unit type Blowing agent type	Daily	Record of number of units treated by type and blowing agent	Type 1 - 4 VHC, VFC or other (e.g. carbon dioxide)
WTEE Stage 2 destruction Insulation panel treated	Mass (kg)	Daily	Record of panel treated by weight and blowing agent type	VHC, VFC or other (e.g. carbon dioxide)

Table S3.3 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
WTEE Stage 2 destruction Contained environment	Lower Explosive Limit (LEL) or Limiting Oxygen Concentration (LOC)	Continuous	-	-
WTEE Stage 2 destruction Residual materials conformance testing	Quantity of foam remaining on the granulated metal after treatment (%w/w)	Quarterly	Independent conformance testing in accordance with Section 6 (process monitoring) of Waste temperature exchange equipment: appropriate measures for permitted facilities	Assessment must be undertaken using a representative composite sample, consisting of at least 3 individual samples. Sample analysis must be carried out by an appropriately accredited independent laboratory (for example, UKAS accredited) and using recognised accredited methods if they are available.
	Quantity of foam remaining on the granulated plastic after treatment (%w/w)	Quarterly		
	Quantity of residual blowing agents remaining in the foam after treatment (%w/w)	Quarterly		
WTEE Stage 2 destruction Quantity of blowing agent recovered	Quantity of blowing agent collected over reporting period	Monthly	Weighed using calibrated scales of appropriate precision	-
WTEE Stage 2 destruction Blowing agent recovery	Blowing agent recovered as a percentage of the theoretical content of the waste treated	Monthly	Calculated in accordance with Section 6 (process monitoring) of Waste temperature exchange equipment: appropriate measures for permitted facilities	Monthly assessment based upon the waste treated during that period
		Annual		Annual assessment based upon a representative sample of waste treated
WTEE Record of residual wastes removed from the site	As set in Form Appendix A: Quantities of residual materials from pre-destruction and destruction treatment	Quarterly	-	-

Table S3.3 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
All mechanical treatment of WEEE	Mass balance	Annual		

Schedule 4 – Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to Air Parameters as required by condition 3.5.1	A1 and A2, or as agreed in writing by the Environment Agency.	Every 6 months, or as agreed in writing by the Environment Agency.	1 January
Process monitoring Parameters as required by condition 3.5.1	As agreed in writing by the Environment Agency.	Quarterly or as agreed in writing by the Environment Agency.	1 January

Parameter	Units
WTEE treated	tonnes
WEEE treated (excluding WTEE)	tonnes
Ferrous metal recovered	tonnes
Non-ferrous metal recovered	tonnes
Other fractions recovered	tonnes
Non-metallic shredder residue	tonnes

Parameter	Frequency of assessment	Units
Water usage	Annually	m ³
Energy usage	Annually	MWh
Total raw material used	Annually	tonne

Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by the Environment Agency	DD/MM/YY
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	DD/MM/YY
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	DD/MM/YY
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	DD/MM/YY

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
WTEE process monitoring - Quantities of residual wastes removed from site	Quantities of residual materials from pre-destruction and destruction process form (Appendix A Excel Form) or other form as agreed in writing by the Environment Agency	DD/MM/YY
WTEE process monitoring - Summary of WTEE and insulation panels treated - Quantities of refrigerant and blowing agent recovered - Assessment of refrigerant and blowing agent recovery rate	Degassing and destruction process efficiency reporting form (Appendix B Excel Form) or other form as agreed in writing by the Environment Agency	DD/MM/YY
WTEE process monitoring - Conformance testing of residual materials	Residual materials conformance testing reporting form (Appendix C Excel Form) or other form as agreed in writing by the Environment Agency	DD/MM/YY
Waste returns	E-waste returns	--

Schedule 5 – Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution	
To be notified within 24 hours of detection	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) Notification requirements for the breach of permit conditions not related to limits	
To be notified within 24 hours of detection	
Condition breached	
Date, time and duration of breach	
Details of the permit breach i.e. what happened including impacts observed.	
Measures taken, or intended to be taken, to restore permit compliance.	

(d) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

“accident” means an accident that may result in pollution.

“application” means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

“authorised officer” means any person authorised by the Environment Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

“baling” means baling that utilises a hydraulic machine that using compressive forces compacts various materials into regular-shaped dense bales (typically a cube). Bales may be belted with straps or steel wire to keep the bale in its compacted state; although for most metal bales this is not necessary. Baled scrap metal may be easier to handle, store and transport than loose scrap.

“best available treatment, recovery and recycling techniques” shall have the meaning given to it in the document published jointly by the Department for Environment, Food and Rural Affairs, the Welsh Assembly Government and the Scottish Executive on 27th November 2006, entitled ‘Guidance on Best Available Treatment, Recovery and Recycling Techniques (BATRR) and Treatment of Waste Electrical and Electronic Equipment (WEEE)’.

“Blowing agent” Blowing agent used in the foam formation process and contained in the insulating foam of a WTEE unit, or other relevant electrical appliance, or insulation panel. Blowing agents are used in the foam formation process and include chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs), hydrofluorocarbons (HFCs) and hydrocarbons (HCs).

“compacting” means compacting involving the flattening or crushing of compactable metal wastes to aid storage and economic transportation to the scrap processor; it is often a preparation for shredding. Compacting may be achieved using a waste handler’s loading shovel (known as “tapping”) or specially-designed hydraulic flattener.

“Contained environment” Means an environment where there is atmospheric containment. This includes areas where air egress may only be facilitated through air extraction and blowing agent capture systems

“controlled substances” means chlorofluorocarbons, other fully halogenated chlorofluorocarbons, halons, carbon tetrachloride, 1,1,1-trichloroethane, methyl bromide, hydrobromofluorocarbons and hydrochlorofluorocarbons listed in Annex I of Regulation (EC) No 2037/2000 of the European Parliament and of the Council of 29 June 2000 on substances that deplete the ozone layer, including their isomers, whether alone or in a mixture, and whether they are virgin, recovered, recycled or reclaimed.

“cutting” means cutting typically utilising either an oxy-acetylene gas cutting torch or abrasive disc cutter to cut and/or resize large pieces of scrap metal into more manageable sizes; powder torches and plasma torches may be used to cut heat-resistant scrap e.g. pig iron, copper, bronze).

“Defective unit” means a WTEE unit that does not have any gas pressure in the cooling circuit.

“disposal” means any of the operations provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“dust” means total particulate matter (in air).

“emissions of substances not controlled by emission limits” means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission limit.

“emissions to land” includes emissions to groundwater.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2016 No.1154 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

“grading” means the sorting of metals to industry-agreed specifications ready for use, without the need for further treatment, by the end consumer to manufacture new metals.

“granulating” means granulated to a very small size with metal/non-metal separation by air classification and flotation.

“groundwater” means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

“Hazardous property” has the meaning in Annex III of the Waste Framework Directive.

“Hazardous waste” has the meaning given in the Hazardous Waste (England and Wales) Regulations 2005 No.894, the Hazardous Waste (Wales) Regulations 2005 No. 1806 (W.138), the List of Wastes (England) Regulations 2005 No.895 and the List of Wastes (Wales) Regulations 2005 No. 1820 (W.148).

“impermeable surface” means a surface or pavement constructed and maintained to a standard sufficient to prevent the transmission of liquids beyond the pavement surface.

“Independent conformance testing” means independent sampling and testing of residual materials and emission points to confirm whether or not the standards set in the permit for fridge destruction are being fulfilled, carried out by an external laboratory and using accredited methods where they are available.

“Industrial Emissions Directive” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016

“Insulation panel” means rigid polyurethane foam insulation boards, typically removed from the internal and external walls, roofs and ceilings of buildings, cold stores or commercial or domestic cooling equipment, which contain CFC, HCFC, HFC or HC blowing agents.

“List of Wastes” means the list of wastes established by Commission Decision 2000/532/EC replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste, as amended from time to time.

“Lower Explosive Limit” means the lowest concentration (specified as a percentage) of a combustible gas in air capable of burning in the presence of an ignition source.

“MCERTS” means the Environment Agency’s Monitoring Certification Scheme.

“ozone-depleting substances” “ODS” means “controlled substances” contained in refrigeration, air-conditioning and heat pump equipment (WTEE); equipment containing solvents; fire protection systems and fire extinguishers.

“pests” means Birds, Vermin and Insects.

“quarter” means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

“recovery” means any of the operations provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“Reference 1” means the International Atomic Energy Agency recommendations in Annex IV of ‘Recommendations on Monitoring and Response Procedures for Radioactive Scrap Metal’, UNECE, 2006.

“Refrigerant” means refrigerant gas contained in the compressor and cooling circuit of the WTEE unit. Refrigerants include chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs), hydrofluorocarbons (HFCs), hydrocarbons (HCs) and ammonia.

“WTEE unit type” are four identified types of refrigeration unit, as set out in the table below:

Type 1	Refrigerators with storage capacity less than 0.18m ³
Type 2	Refrigerators or combined fridge-freezers with storage capacity between 0.18m ³ & 0.35m ³

Type 3	Freezers with storage capacity less than 0.50m ³ and combined fridge-freezers with capacity greater than 0.35m ³ and no more than 0.5m ³
Type 4	any refrigerators, freezers or fridge-freezers with a capacity greater than 0.5m ³

“Residual materials” means both materials and wastes resulting from the specified operations.

“sealed drainage system” in relation to an impermeable surface, means a drainage system with impermeable components which does not leak and which will ensure that:

- no liquids will run off the surface otherwise than via the system
- all liquids entering the system are collected in a sealed sump, except where liquids may be lawfully discharged.

“separation” means separating wastes into different material types, components and grades.

“shearing” means utilises a range of hydraulic machinery that comprise hard steel blades which cut metals into manageable sizes. It may be hand-held, static or attached to mobile plant (e.g. cranes).

“sorting” means sorting that may be undertaken by hand or machinery. Sorting enables materials to be processed and recycled appropriately. It may involve separation of different waste types or the separation of different metal types including different ferrous metals, non-ferrous metals and non-metallic materials (e.g. paper and plastic). The sorted metals are graded by visual inspection, supplemented by chemical and other laboratory tests. The physical sorting may be assisted by conveyors and electromagnets.

“shredding” includes treatment in plant such as hammer mills, chain mills, rotary shears and other similar equipment that is designed to fragment metal into smaller pieces to allow the separation of the metallic and the non metallic fractions. It does not include shearers and guillotines which utilise a range of hydraulic machinery that comprise hard steel blades to cut metals into manageable sizes.’

“VHC” means volatile hydrocarbon

“VFC” means volatile (hydro)fluorocarbon, including chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs) and hydrofluorocarbons (HFCs).

“Waste code” means the six digit code referable to a type of waste in accordance with the List of Wastes (England) Regulations 2005, or List of Wastes (Wales) Regulations 2005, as appropriate, and in relation to hazardous waste, includes the asterisk.

“Waste Framework Directive” or “WFD” means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“waste motor vehicle” means a wheeled vehicle for use on land and that does not operate on rails that is waste within the meaning of Article 3(1) of the Waste framework Directive.

“WEEE” means waste electrical and electronic equipment.

“WEEE Directive” means Directive 2012/19/EU of the European Parliament and of the Council of 4th July 2012 on waste electrical and electronic equipment (WEEE).

“WTEE” means waste temperature exchange equipment, as defined in guidance Waste temperature exchange equipment: appropriate measures.

“year” means calendar year ending 31 December.

Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

- in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or
- in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.

Where the following terms appear in the waste code list in Table[s] S[X.X] they have the meaning given below.

“hazardous substance” means a substance classified as hazardous as a consequence of fulfilling the criteria laid down in parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008.

“heavy metal” means any compound of antimony, arsenic, cadmium, chromium (VI), copper, lead, mercury, nickel, selenium, tellurium, thallium and tin, as well as these materials in metallic form, as far as these are classified as hazardous substances

“polychlorinated biphenyls and polychlorinated terphenyls” (“PCBs”) means PCBs as defined in Article 2(a) of Council Directive 96/59/EC’.

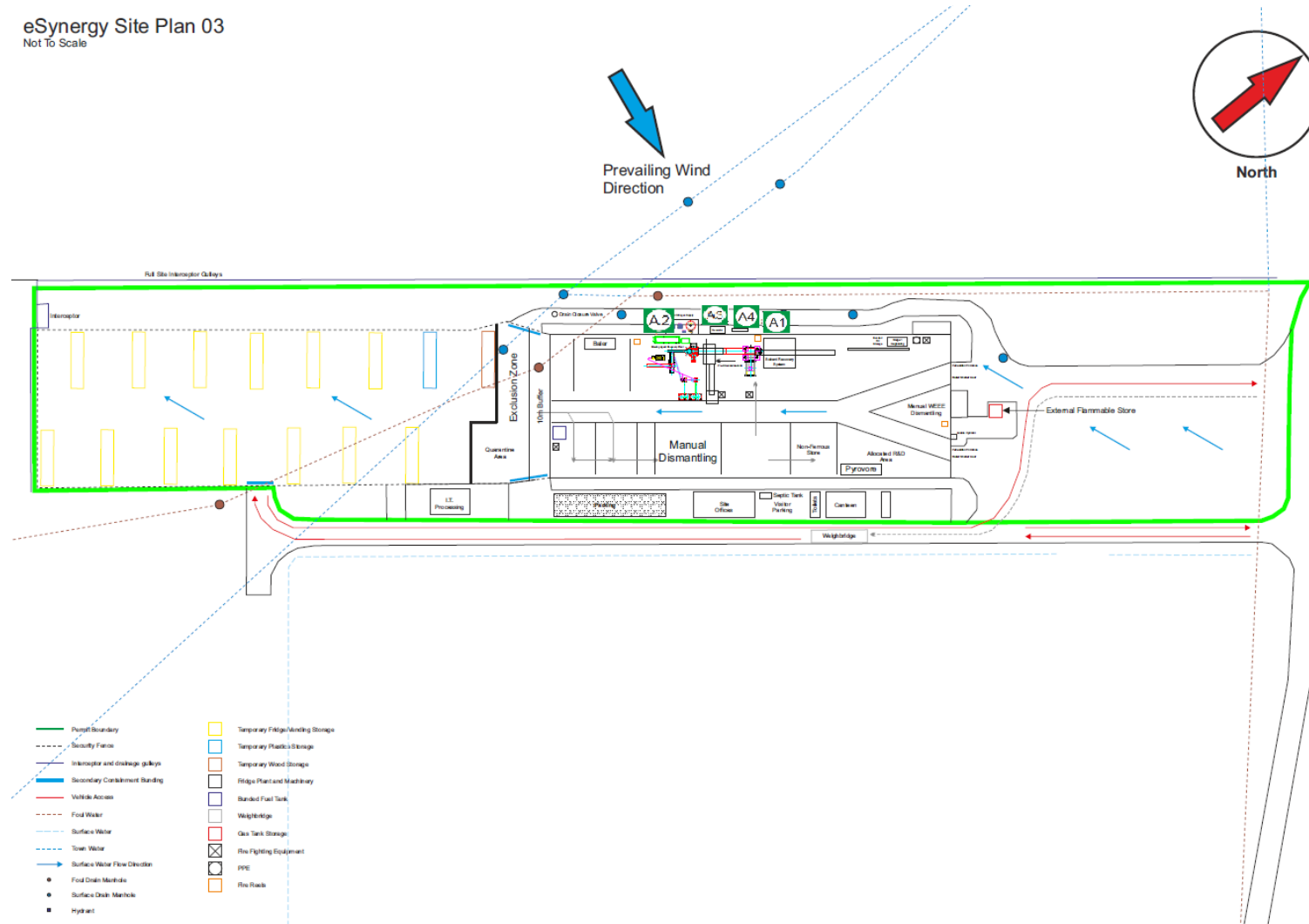
Article 2(a) says that ‘PCBs’ means:

- polychlorinated biphenyls;
- polychlorinated terphenyls;
- monomethyl-tetrachlorodiphenyl methane, Monomethyl-dichloro-diphenyl methane, Monomethyldibromo-diphenyl methane; and
- any mixture containing any of the above mentioned substances in a total of more than 0,005 %by weight.

“transition metals” means any of the following metals: any compound of scandium, vanadium, manganese, cobalt, copper, yttrium, niobium, hafnium, tungsten, titanium, chromium, iron, nickel, zinc, zirconium, molybdenum and tantalum, as well as these materials in metallic form, as far as these are classified as hazardous substances.

Schedule 7 – Site plan

eSynergy Site Plan 03
Not To Scale



END OF PERMIT

Permit number
EPR/FB3905FE

Permit Number: EPR/FB3905FE

Operator:

**ES Facilities
Management**

Facility: Unit E

Form Number:

Air1 / DD/MM/YY

Reporting of emissions to air for the period from DD/MM/YYYY to DD/MM/YYYY

Emission Point, as defined on Site Plan, Schedule 7.	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
A1 Fridge Treatment Plant abatement system serving pre-shredder and Stage 2 treatment.	Dust	5 mg/m ³	Average value of 3 consecutive measurements of at least 30 minutes		As agreed with the Environment Agency		
A1 Fridge Treatment Plant abatement system serving pre-shredder and Stage 2 treatment.	CFCs	10 mg/m ³	Average value of 3 consecutive measurements of at least 30 minutes		As agreed with the Environment Agency		
A1 Fridge Treatment Plant abatement system serving pre-	Total VOCs (concentration)	15mg/m ³	Average value of 3 consecutive measurements of at least 30 minutes		As agreed with the Environment Agency		

Emission Point, as defined on Site Plan, Schedule 7.	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
shredder and Stage 2 treatment.							
A1 Fridge Treatment Plant abatement system serving pre-shredder and Stage 2 treatment.	Total VOCs (mass emission)	Mass loss limit, set on a pro-rata basis, based upon a mass limit of 5g per 100 units treated per hour	Average value of 3 consecutive measurements of at least 30 minutes		As agreed with the Environment Agency		
A1 Fridge Treatment Plant abatement system serving pre-shredder and Stage 2 treatment.	Air flow	-	Average value of 3 consecutive measurements of at least 30 minutes		As agreed with the Environment Agency		
A1 Fridge Treatment Plant abatement system serving pre-shredder and Stage 2 treatment.	Brominated flame retardants	-	Average value of 3 consecutive measurements of at least 30 minutes		As agreed with the Environment Agency		

Emission Point, as defined on Site Plan, Schedule 7.	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
A1 Fridge Treatment Plant abatement system serving pre-shredder and Stage 2 treatment.	Dioxin-like polychlorinated biphenyls (PCBs)	-	Average value of 3 consecutive measurements of at least 30 minutes		As agreed with the Environment Agency		
A1 Fridge Treatment Plant abatement system serving pre-shredder and Stage 2 treatment.	Metals (As, Cd, Co, Cr, Cu, Mn, Ni, Pb, Sb, Se, Tl, V)	-	Average value of 3 consecutive measurements of at least 30 minutes		As agreed with the Environment Agency		
A1 Fridge Treatment Plant abatement system serving pre-shredder and Stage 2 treatment.	Dioxins and furans (PCDD/F)	-	One sampling period of at least 6 hours		As agreed with the Environment Agency		
A2, Dust control system exhaust for WTEE plant materials	Total Suspended particulates	5 mg/m ³ or other level agreed in writing with the	Hourly average		BS EN 13284-1		

Emission Point, as defined on Site Plan, Schedule 7.	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
separation process.		Environment Agency					

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed

Date.....

(Authorised to sign as representative of Operator)

Permit Number: **EPR/FB3905FE**
Facility: **Unit E**

Operator: **ES Facilities Management**
Form Number: **WaterUsage1 / DD/MM/YY**

Reporting of Water Usage for the year

Water Source	Usage (m³/year)	Specific Usage (m³/unit output)
Mains water		
Site borehole		
River abstraction		
TOTAL WATER USAGE		

Operator's comments:

Signed

(authorised to sign as representative of Operator)

Date.....

Permit Number: EPR/FB3905FE
Facility: Unit E

Operator: ES Facilities
Management
Form Number: Energy1 / DD/MM/YY

Reporting of Energy Usage for the year

Energy Source	Energy Usage		Specific Usage (MWh/unit output)
	Quantity	Primary Energy (MWh)	
Electricity *	MWh		
Natural Gas	MWh		
Gas Oil	tonnes		
TOTAL	-		

* Conversion factor for delivered electricity to primary energy = 2.4

Operator's comments:

Signed

Date.....

(Authorised to sign as representative of Operator)

Permit Number: EPR/FB3905FE
Facility: Unit E

Operator: ES Facilities
Management
Form Number: Performance1 / DD/MM/YY

Reporting of other performance indicators for the period DD/MM/YYYY to DD/MM/YYYY

Parameter	Units
Total raw material used	tonnes

Operator's comments:

Signed

Date.....

(Authorised to sign as representative of Operator)