

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Davis Commercial Services Ltd

DCS House
12 Baron Avenue
Earls Barton
Northamptonshire
NN6 0JE

Variation application number

EPR/EB3100HN/V002

Permit number

EPR/EB3100HN

Earls Barton Fridge Recycling Facility

Permit number EPR/EB3100HN

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.

The Industrial Emissions Directive (IED) was transposed in England and Wales by the Environmental Permitting (England and Wales) (Amendment) Regulations 2013 on 27 February 2013. This variation implements the changes brought about by the IED for “existing facilities operating newly prescribed activities” and completes the transition of this facility from a waste operation to an IED Installation.

The site, which is approximately 1.37 ha, is located in Mallard Close Industrial Estate, to the north-east of the village of Earls Barton; approximately 5 km south-west of Wellingborough town centre; and 11 km east north-east of Northampton city centre. The site is centred at National Grid Reference (NGR) 485514, 264571 (SP 85514 64571).

The northern site boundary is approximately 320 m south of the A4500 Main Road.

The site is made up of two areas, one at 12 Baron Avenue, Earls Barton and the outdoor storage area located approximately 200 m from the main building and is shown in the site plans in Schedule 7.

The activities that are being undertaken on the site are:

- Section 5.3 A(1) (a) (ii) - Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment
- Section 5.6 A(1)(a) - Temporary storage of hazardous waste in a facility with a total capacity exceeding 50 tonnes pending any of the activities listed in Section 5.1, 5.2 and 5.3
- Directly Associated Activities:
 - Physical treatment for the purpose of recycling
 - Storage of processed materials, excluding temporary storage of hazardous waste under Section 5.6 A(1)(a)
 - Raw materials storage
 - Air emission abatement
 - Site drainage discharge
- Waste Operations
 - 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

The site will process up to 10,000 tonnes of commercial refrigeration units per annum. These will be processed to remove the refrigerant gases and oils from the compressor (unless this has been done at source), then dismantled and separated into recoverable parts as far as possible (e.g. plastic, glass, metal and printed circuit boards). The waste refrigeration units are not fully destroyed, but these are dismantled into separate materials and compacted prior to being sent offsite for recovery or disposal.

The commercial units received at the site these can be further divided into two distinct types; either be 'remote' or 'integral':

- Integral: Units which are similar to domestic fridges in that they contain compressors with oils and refrigerants, and are designed to independently cool within the cabinet shell.
- Remote: These units (the cabinet or shell in which products are placed) do not contain compressors with oils and refrigerants, as this element of the cooling system is held elsewhere within the retail units, providing refrigeration for a number of cabinets. The part of the unit received on site is the cabinet. Therefore, these units do not contain refrigerant gas when delivered.

Units that contain hazardous blown insulation foam have the foam removed from the metal and sawn down to a manageable size to either be taken off site for further processing or put through a densification process to compress it and seal it in a bag which is exported from site for recovery.

Units that contain non-hazardous blown insulation foam will be degassed and dismantled and in some instances compacted. However, fridge units containing ammonia are not treated on site but transferred to an authorised treatment facility for appropriate processing.

The nearest residential properties in Earls Barton are approximately 105 m southwest and the site is surrounded by 17 other businesses. Other receptors include:

- Special Protected Area: Upper Nene Valley Gravel Pits approximately at 2,200 m and 6,500 m from the site
- Ramsar Sites - England: Upper Nene Valley Gravel Pits at approximately 2,260 m and 8,280 m from the site
- Local Wildlife Sites:
 - Wilby Meadows Stream at approximately 1,145 m from the site
 - Sywell Reservoir and Country Park at approximately 2,025 m from the site

The principal releases from the site will be to air (A1) and to land (S1 & S2, subject to completion and approval of improvement conditions IC 01 and 02) and treated waste that are sent offsite for further recovery and disposal.

The point source A1 is abated to treat particulates and any hydrocarbon gas extracted from the size reduction and densification treatment activities.

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	Duly made 08/04/16	Application for standard rule permit SR2015 No. 3.
Additional information received	08/04/16	Revised fire prevention plan.
Response to Schedule 5 notice dated 26/04/16	17/05/16 & 18/05/16	Revised fire prevention plan version 2.
Response to Schedule 5 notice dated 01/07/16	30/08/16	Revised fire prevention plan version 3.
Response to Schedule 5 notice dated 19/09/16	07/10/16	Revised fire prevention plan version 4.
Permit determined EPR/EB3100HN/A001	15/11/2016	Standard Rule Permit SR2015 No. 3 issued to Davis Commercial Services Limited.
Application EPR/EB3100HN/V002 (variation and consolidation)	Duly made 17/10/19	Application to vary and update the permit to bespoke conditions.
	17/10/19	Additional plans and H1 assessment report and tool.
Response to Schedule 5 notice dated 31/01/19	13/03/20	Revised fire prevention plan (version 2) Revised BAT assessment Revised abatement proposals
Additional Information received	20/04/20	Updated certificate of continuing technical competence
Response to Schedule 5 notice dated 16/04/20	24/04/20	Revised fire prevention plan (version 3) Revised BAT assessment Revised process flow diagram
Additional Information received	13/05/20	Additional operational techniques for refrigeration units containing ammonia.
Additional Information received	03/07/20	Revised BAT assessment and technical description and Flow diagram
Additional Information received	17/07/20	Revised site plan and flow
Variation determined EPR/EB3100HN Billing references: - Installation – YP3800PC - Waste – EAWML 403231	29/07/20	Varied and consolidated permit issued in modern condition format.

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/EB3100HN

Issued to

Davis Commercial Services Limited (“the operator”)

whose registered office is

**DCS House
12 Baron Avenue
Earls Barton
Northamptonshire
NN6 0JE**

company registration number 07531166

to operate a regulated facility at

**DCS House
12 Baron Avenue
Earls Barton
Northamptonshire
NN6 0JE**

to the extent set out in the schedules.

The notice shall take effect from 29/07/2020

Name	Date
Claire Roberts	29/07/2020

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied by the consolidated permit as a result of an operator 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/EB3100HN

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/EB3100HN/V002 authorising,

Davis Commercial Services Limited (“the operator”),

whose registered office is

**DCS House
12 Baron Avenue
Earls Barton
Northamptonshire
NN6 0JE**

company registration number 07531166

to operate an installation and waste operations at

**DCS House
12 Baron Avenue
Earls Barton
Northamptonshire
NN6 0JE**

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

Name	Date
Claire Roberts	29/07/2020

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 activities referenced in schedule 1, table S1.1, A1 to A7, 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 activities referenced in schedule 1, table S1.1, A1 to A7, 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 Waste 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 tables S2.2, and S2.3; 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 A1 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) exceedance of 25% of a relevant Lower Explosive Limit (LEL).

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 storage and treatment

2.5.1 Spillage collection facilities and, where appropriate, decanters and cleanser-degreasers shall be provided and used as necessary.

2.5.2 WEEE (disassembled spare parts, components and residues) shall be stored in areas provided with a weatherproof covering where appropriate or in containers providing a weatherproof covering where appropriate.

2.5.3 WEEE shall be treated using best available treatment, recovery and recycling techniques (BAT/RT).

2.5.4 All fluids contained within any WEEE shall be removed prior to further treatment.

2.5.5 As a minimum, the substances, preparations and components specified in table S1.3 shall be removed from any separately collected WEEE.

2.5.6 Separately collected components of WEEE specified in table S1.4 shall be treated in accordance with the methods specified in that table.

2.5.7 Any liquids including those in disassembled spare parts, batteries, capacitors containing PCBs/PCTs and any other hazardous waste shall be stored in suitable sealed and labelled containers.

2.5.8 Equipment shall be provided and used to record the weight of untreated WEEE accepted at, and components and materials leaving the site.

2.6 Refrigerator unit pre-dismantling and dismantling

2.6.1 The dismantling of refrigerator units shall take place in accordance with table S1.5.

2.7 Improvement programme

2.7.1 The operator shall complete the improvements specified in schedule 1 table S1.6 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.

2.7.2 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.

2.8 Pre-operational conditions

2.8.1 The operations specified in schedule 1 table S1.7 shall not commence until the measures specified in that table have been completed.

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.

3.2 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;
 - (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 and S3.2 unless otherwise agreed in writing by the Environment Agency.
- 3.5.5 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.

3.6 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 For the following activities referenced in schedule 1, table S1.1, A1 to A7, 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 year, 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 For the following activities referenced in schedule 1, table S1.1, A1 to A7, 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 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, 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 For the following activities referenced in schedule 1, table S1.1, A8, the Environment Agency shall be notified without delay following the detection of:

- (a) 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;
- (b) the breach of a limit specified in the permit; or
- (c) any significant adverse environmental effects.

4.3.4 Any information provided under condition 4.3.3 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

4.3.5 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.

4.3.6 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.

- 4.3.7 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.
- 4.3.8 The Environment Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.

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 For the following activities referenced in schedule 1, table S1.1, A1 to A7, 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.
- 4.4.3 For the following activities referenced in schedule 1, table S1.1, A8, in this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made “without delay”, 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
A1	Section 5.3 A(1) (a) (ii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment	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	Treatment of refrigeration units consisting of sorting of dismantled parts, separation, manual dismantling, grading, baling, compacting, crushing, cutting, condensing, and degassing in line with the standards in Tables S1.3, S1.4 and S1.5. Treatment of refrigeration units shall be carried out within a building provided with weatherproof covering. Treatment of integral refrigeration units consisting of manual degassing in line with the Stage 1 standards in Tables S1.5. Waste types suitable for acceptance are limited to those specified in Table S2.2.
A2	Section 5.6 A(1)(a) Temporary storage of hazardous waste in a facility with a total capacity exceeding 50 tonnes pending any of the activities listed in Section 5.1, 5.2 and 5.3	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)	Storage of refrigeration units: Refrigeration units shall not be stored for more than 3 months without prior written approval from the Environment Agency. Free storage of refrigeration units shall not exceed a maximum storage height of 3.5 metres. Storage capacity of refrigeration units shall not exceed 1000 tonnes at any one time. Waste types suitable for acceptance are limited to those specified in Table S2.2. Storage of refrigerants and oils. All other hazardous waste storage pending treatment shall not exceed 6 months, without prior written approval from the Environment Agency. All storage shall be on sealed, impermeable surface.

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
	Directly Associated Activity		
A3	Physical treatment for the purpose of recycling	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	Treatment consisting only of sorting, separation and grading of dismantled materials.
A4	Storage of processed materials, excluding temporary storage of hazardous waste under Section 5.6 A(1)(a)	R13: Storage of waste pending the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	Storage of recovered dismantled fractions and residues following treatment.
A5	Raw materials storage	Storage of raw materials including, nitrogen, foam, and diesel.	From the receipt of raw materials to despatch for use within the facility
A6	Air Emission Abatement	Collection and treatment of air from the buildings or plant using an air emissions abatement system prior to release to atmosphere	From the collection of air from site processes to treatment and release of treated air to atmosphere.
A7	Site drainage discharge	Discharge of site drainage from storage and treatment areas.	Drainage discharge at point S1 and S2 as shown on plan in Schedule 7, and according to the requirements of IC01 and IC02. No discharge from S1 or S2 without the approval of the Environment Agency or until written approval of improvement condition IC01 and IC02 has been given.
Activity reference	Description of activities for waste operations	Limits of activities	
A8 Refrigeration units storage and pre-dismantling treatment	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	Waste types suitable for acceptance are limited to those specified in Table S2.3. All storage shall be on sealed, impermeable surface. Free storage of refrigeration units shall not exceed a maximum storage height of 3.5 metres. Treatment of integral refrigeration units consisting of manual degassing in line with the Stage 1 standards in Tables S1.5.	

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
	R4: Recycling/ reclamation of metals and metal compounds	Treatment of WEEE shall be carried out within a building provided with a weatherproof covering. Treatment of refrigeration units consisting of sorting of dismantled parts, separation, manual dismantling, grading, baling, compacting, crushing, cutting, condensing, and degassing in line with the standards in Tables S1.3, S1.4 and S1.5.	

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	Response to Question 3 of application form C3.	05/07/19
Response to Schedule 5 dated 31/01/20 (Reference: K256.1~09~010)	All parts	13/03/20
Fire Prevention Plan (Reference K256.1~09~007 V3 FPP DCS Fire Prevention plan Final 2020 04 23)	All parts	24/04/20
Response to Schedule 5 dated 16/04/20 (Reference: K256.1~09~010)	All parts	24/04/20

Table S1.3 Substances, preparations and components to be removed from separately collected 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

Table S1.3 Substances, preparations and components to be removed from separately collected WEEE

- 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 for separately collected components of WEEE

Component	Specified Treatment
Cathode ray tubes	The fluorescent coating shall be removed
Gas discharge lamps	The mercury shall be removed
Equipment containing gases that are ozone depleting or have a global warming potential (GWP) above 15 such as those contained in foams and refrigeration circuits	The gases must be properly extracted and properly treated. Ozone depleting gases must be treated in accordance with Regulation (EC) No 1005/2009.

Table S1.5 Standards for pre-dismantling and dismantling of refrigeration units

Stage 1) Pre-dismantling processing of waste refrigeration units	<p>The pre-dismantling processing of integral refrigerator units shall be undertaken in a manner to ensure fugitive emissions from the removal of refrigerant and oil from the refrigeration cooling systems are collected.</p> <p>Drainage of the refrigeration cooling system shall 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>Upon removal of compressor oil from the cooling system:</p> <p>The compressor oil shall be processed to ensure that the concentration of refrigerant in the oil is <0.9% w/w; or</p> <p>Where the compressor oil is not processed to remove dissolved refrigerant it shall be placed immediately in a suitable sealed container to prevent fugitive emissions and sent for further refrigerant recovery or destruction.</p> <p>Following the drainage of the cooling system, the compressor unit shall be removed from the refrigerator unit and placed into a suitable container that prevents fugitive emissions.</p> <p>Switches containing mercury or other hazardous components shall be removed from the unit and placed in a suitable container prior to unit destruction.</p> <p>All refrigerator units shall be drained of free water prior to dismantling.</p>
Stage 2) Refrigeration unit carcass dismantling and insulation panel treatment	<p>Refrigeration unit carcasses and insulation panels shall not be subject to the dismantling process unless processed to the appropriate pre-dismantling processing standards specified in Section 1 above.</p> <p>Insulation panels shall be cut in a way that prevents or where that is not practicable, minimises dust and fugitive loss of blowing agent.</p>

Table S1.5 Standards for pre-dismantling and dismantling of refrigeration units	
	<p>The dismantling of the refrigerator unit carcasses is to be undertaken manually and the residual materials resulting from the dismantling of refrigeration unit carcasses shall meet the standards specified below:</p> <ul style="list-style-type: none"> • Metal - The quantity of foam remaining on the granulated metal after processing shall not exceed 0.5% w/w • Plastic - The quantity of foam remaining on the granulated plastic after processing shall not exceed 1% w/w <p>All waters generated from the dismantling operations shall be collected and stored in a sealed container to prevent fugitive emissions prior to disposal and recovery.</p> <p>The densification of the insulation panels shall be undertaken in a contained environment that prevents fugitive losses of the blowing agent and the treated foam shall be placed in a sealed environment prior to storage and transport off site.</p>

Table S1.6 Improvement programme requirements		
Reference	Requirement	Date
IC01	<p>The operator shall submit a written monitoring plan as required by Environment Agency guidance “Control and monitor emissions for your environmental permit” ^[Note 1] and the WT BATc (Numbers 6, 7 and 20) ^[Note 2] to the Environment Agency for approval. The plan shall include proposals to undertake representative monitoring of the surface water discharged from point S1 and S2 and include the parameters to be monitored, frequency of monitoring and methods to be used. The operator shall carry out the monitoring in accordance with the Environment Agency’s written approval.</p>	29/01/2021
IC02	<p>The operator shall submit a written report to the Environment Agency for approval that includes:</p> <ul style="list-style-type: none"> (a) the results of an assessment of the impact of the emissions of surface water from the site using the Environment Agency’s ‘H1 Environmental Risk Assessment’ tool (or equivalent as agreed with the Environment Agency) based on the parameters monitored in IC01 above as per the Environment Agency guidance ^[Note 3]; and (b) a completed H1 assessment software tool; and (c) monitoring parameters; and (d) emission limits; and (e) monitoring frequency and standard or method; and (f) proposals for appropriate measures to mitigate the impact of any emissions where the assessment determines they have the potential to be significant, including dates for implementation of individual measures. <p>The operator shall implement the measures in (f) as approved, and from the dates stipulated by the Environment Agency.</p>	29/01/2021

Table S1.6 Improvement programme requirements		
Reference	Requirement	Date
IC03	<p>The operator shall submit a written plan to the Environment Agency for approval that includes:</p> <ul style="list-style-type: none"> (a) proposals to undertake representative monitoring of the air discharged from point A1 including the parameters to be monitored, frequencies of monitoring and methods to be used. The proposals shall be as required in the Environment Agency guidance M1 and M2 or as otherwise agreed in writing with the Environment Agency; <p>The proposals shall ensure that during the monitoring:</p> <ul style="list-style-type: none"> i) the site operations reflect a reasonable worst case scenario i.e. the site is working at capacity; ii) the monitoring plan includes details of a minimum of two separate monitoring campaigns (the first during commissioning and at least one other monitoring survey three to six months following commissioning of the abatement plant); iii) ensure that monitoring is undertaken before and after the air emission abatement system as proposed in the application; iv) be in accordance with BS EN 13284-1 and BS EN 13649 and/or 12619 or as agreed in writing with the Environment Agency; <ul style="list-style-type: none"> (b) proposals to undertake representative monitoring of the ambient air within the building including the sampling locations, parameters to be monitored, frequencies of monitoring and methods to be used; (c) enable the quantification of fugitive emissions in the manual working area; (d) proposals to monitor for pollutants shall include total volatile organic compounds and particulates unless otherwise agreed in writing with the Environment Agency as a minimum; (e) confirmation that a written report will be submitted to the Environment Agency for approval that includes: <ul style="list-style-type: none"> (i) the results of an assessment of the impact of the emission to air from the site using the Environment Agency's 'H1 Environmental Risk Assessment' tool (or equivalent as agreed with the Environment Agency) based on the parameters monitored in (a) above and as required by the Environment Agency guidance ^[Note 3]; and (ii) proposals for appropriate measures and/or action plan (with timescales) to mitigate the impact of the emission where the assessment determines they are significant, including emissions limits and monitoring and dates for implementation of individual measures; and 	28/02/2021

Table S1.6 Improvement programme requirements		
Reference	Requirement	Date
	<p>(iii) details of appropriate measures for the operation and maintenance of the abatement system to ensure that where emission limits are proposed they are met or, where emission limits are not required, emissions remain insignificant; and</p> <p>(iv) a completed H1 assessment tool or equivalent as agreed with the Environment Agency.</p> <p>The operator will give the Environment Agency at least fourteen days' notice of the commencement of the monitoring being undertaken.</p> <p>The operator shall carry out the monitoring in accordance with the Environment Agency's written approval.</p>	
IC04	<p>If the H1 assessment, based on the parameters monitored in IC03, shows potential long or short term impacts from the emissions, the operator shall propose an action plan and/or appropriate measures to reduce the impacts of the substances identified including the revised abatement system plans.</p> <p>The action plan and /or appropriate measures shall contain sufficient detail to allow the Environment Agency to determine if a variation application is required.</p> <p>Once approved in writing and from the date stipulated by the Environment Agency, the action plan and any appropriate measures shall be implemented in accordance with the agreed timescales, subject to such amendments or additions as notified by the Environment Agency.</p>	28/02/2021
IC05	<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 stage 1 and stage 2 processing of refrigeration units 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 plan shall contain proposals for the monitoring study which shall:</p> <ul style="list-style-type: none"> i) reflect a reasonable worst case scenario i.e. the site is working at capacity; ii) include details of a minimum of two separate monitoring campaigns (the first during commissioning and at least one other monitoring survey three months following commissioning of the abatement plant); iii) will be undertaken when both the foam is undergoing size reduction and being processed through the densification system; iv) reflect the requirements of BAT Conclusion 3 (iii) ^[Note 2]. 	28/02/2021

Table S1.6 Improvement programme requirements		
Reference	Requirement	Date
	<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> <p>The operator shall carry out the monitoring exercise and submit a report in accordance with the Environment Agency's written approval</p>	
IC06	<p>The operator shall submit a written report detailing the Leak Detection and Repair (LDAR) Programme that complies with Section 6.2 of BAT conclusions ^[Note 3].</p> <p>Once approved in writing and from the date stipulated by the Environment Agency, the report shall be implemented in accordance with the agreed timescales, subject to such amendments or additions as notified by the Environment Agency.</p>	28/02/2021
IC07	<p>The operator shall carry out a review of the containment measures necessary to prevent any release of waters to the environment in the event of a fire and submit proposals for more robust improvements to them.</p> <p>The operator shall include the capacity of the building and sump in the outside storage area compared to the largest volume calculated, the doorways to the buildings to ensure the building is a contained system and the need to kerb/bund the work area perimeter to prevent firewater runoff from the site.</p> <p>The proposals shall ensure sufficient contained storage volume is available for temporary storage of firewater run-off.</p> <p>The proposals shall include, but not be limited, to procedures for manhole closure in the event of a fire incident and emergency containment storage facilities for firewater with final storage volumes inside and external to the main process building.</p> <p>The operator shall as part of the proposals identify any improvements required (for example the construction of bunded bays, bunds and kerbs), and provide an implementation plan that includes timescales to the Environment Agency for written approval.</p> <p>The proposals shall comply with the standards in the Environment Agency guidance "Control and monitor emissions for your environmental permit" ^[Note 1].</p> <p>Once approved in writing and from the date stipulated by the Environment Agency, the report and plan shall be implemented in accordance with the agreed timescales, subject to such amendments or additions as notified by the Environment Agency.</p>	29/09/2020
IC08	<p>The operator shall submit a written proposal to the Environment Agency detailing a revised tracking and records system that shows how a refrigeration unit can be tracked from the enquiry stage to removal of separated parts from the site.</p>	29/08/2020

Table S1.6 Improvement programme requirements		
Reference	Requirement	Date
	<p>Additionally, it shall:-</p> <ul style="list-style-type: none"> • detail if the unit has been degassed and fluids removed at source; • detail if the unit requires the refrigerant and fluids to be removed; • following the manual dismantling of the various components; and • be auditable from enquiry to receipt at recovery site. 	
IC09	<p>The operator shall submit a written proposal to the Environment Agency detailing additional secure fencing to protect the outside storage area.</p> <p>These proposals shall comply with the standards set out in the Environment Agency guidance for fire prevention plans ^[Note 4] unless otherwise agree in writing with the Environment Agency.</p> <p>Once approved in writing and from the date stipulated by the Environment Agency, the proposals shall be implemented in accordance with the agreed timescales, subject to such amendments or additions as notified by the Environment Agency.</p>	29/09/2020
IC10	<p>The operator shall submit a written report to the Environment Agency detailing data that is required by Appendix B of the permit.</p> <p>Once approved in writing and from the date stipulated by the Environment Agency, the proposals shall be implemented in accordance with the agreed timescales, subject to such amendments or additions as notified by the Environment Agency</p>	29/08/2020
<p>Note 1 - Control and monitor emissions for your environmental permit (https://www.gov.uk/guidance/control-and-monitor-emissions-for-your-environmental-permit)</p> <p>Note 2 – Waste Treatment BAT conclusion (https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32018D1147&from=EN)</p> <p>Note 3 –Surface Water Pollution risk assessment (both https://www.gov.uk/guidance/surface-water-pollution-risk-assessment-for-your-environmental-permit and https://www.gov.uk/government/publications/h1-annex-d2-assessment-of-sanitary-and-other-pollutants-in-surface-water-discharges)</p> <p>Note 4 – Fire Prevention Plans (https://www.gov.uk/government/publications/fire-prevention-plans-environmental-permits)</p>		

Table S1.7 Pre-operational measures for future development		
Reference	Operation	Pre-operational measures
PO1	Densification of foam panels	At least 4 weeks (or any other date as agreed with the Environment Agency) prior to the commencement of commissioning of the densification process and air emission abatement system, the operator shall provide a written

Table S1.7 Pre-operational measures for future development		
Reference	Operation	Pre-operational measures
		<p>commissioning plan (including timescales for completion) for approval by the Environment Agency. The commissioning plan shall include the expected emissions to the environment during the different stages of commissioning, the expected durations of commissioning activities and the measures to be taken to protect the environment and report to the Environment Agency in the event that actual emissions exceed expected emissions. Commissioning shall be carried out in accordance with the commissioning plan as approved by the Environment Agency.</p> <p>No waste shall be subjected to densification at the installation unless the Environment Agency has given prior written permission under this condition.</p>

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
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Table S2.2 Permitted Waste types and quantities for refrigeration treatment facility (A1 to A7)	
Maximum Quantities	The total quantity of waste accepted at the site for all activities (A1 to A8) shall be less than 10,000 tonnes a year.
Exclusions	Wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> • Consisting solely or mainly of dusts, powders or loose fibres • Containing ozone-depleting substances
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 HFC (no chlorofluorocarbons, HCFC)
16 02 13*	discarded equipment containing hazardous components other than those mentioned in 16 02 09 to 16 02 12 (no chlorofluorocarbons, HCFC).

Table S2.3 Permitted Waste types and quantities for refrigeration treatment facility (A8)	
Maximum Quantities	The total quantity of waste accepted at the site for all activities (A1 to A8) shall be less than 10,000 tonnes a year.
Exclusions	Wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> • Consisting solely or mainly of dusts, powders or loose fibres • Containing ozone-depleting substances
Waste Code	Description
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.

Schedule 3 – Emissions and monitoring

Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 Emissions control system exhaust	Total Suspended particulates	Extraction System for the densification and size reduction of panels process,	10 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	In accordance with BS EN 13284-1 or as agreed in writing with the Environment Agency.
A1 Emission control system exhaust	Other volatile organic compounds (including HCFCs, HFCs and HCs)	separation and densification of pentane insulation panels	15 mg/Nm ³	Hourly average	Monthly for first 6 months then quarterly with written agreement from the Environment Agency	BS EN 12619 and/or 13649
A2 Vents from tanks	Fuel storage tank(s) 2 to 6	No parameters set	--	--	--	--

Emission point ref. & location	Source	Parameter	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
S1 on site plan in schedule 7	Uncontaminated site source water from roofs and non-treatment areas via an oil interceptor	As required by improvement condition IC 01 and 02	As required by improvement condition IC 01 and 02	As required by improvement condition IC 01 and 02	As required by improvement condition IC 01 and 02	As required by improvement condition IC 01 and 02
S2 on site plan in schedule 7	Uncontaminated site source water from roofs and non-treatment areas via an oil interceptor	As required by improvement condition IC 01 and 02	As required by improvement condition IC 01 and 02	As required by improvement condition IC 01 and 02	As required by improvement condition IC 01 and 02	As required by improvement condition IC 01 and 02

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
Number of unit received degassed prior to being received to site	Number of fridges	Quarterly	-	Original type of refrigerant
Refrigeration unit degassing	Refrigeration unit type	Daily	Record of each unit type	Type 1 - 4
	Refrigerant type			CFC, HCFC, HFC, HC or ammonia, CO ₂ and H ₂ O
	Number of defective units			-
Quantity of refrigerant recovered	Quantity of refrigerant collected over reporting period	Monthly	Weighed using calibrated scales	-
Record of residual wastes removed from the site	As set in Form Appendix A: Quantities of residual materials from pre-dismantling and dismantling process	Quarterly	-	-
Contained environment within Stage 2 treatment area and extraction and abatement system	Lower Explosive Limit (LEL) or Limiting Oxygen Concentration (LOC)	Continuous	-	-
Residual materials conformance testing	Quantity of foam remaining on the granulated metal after processing (%w/w)	Quarterly	Independent conformance testing	-
	Quantity of foam remaining on the granulated plastic after processing (%w/w)	Quarterly	Independent conformance testing	-
Refrigeration unit carcass dismantled	Refrigeration unit type	Daily	Record of each carcass dismantled	Type 1 - 4
	Blowing agent type			CFC, HCFC, HFC or HC, ammonia, CO ₂ and H ₂ O
Record of insulation panel foam treatment	Amount of panels processed	Monthly	Calculation	-

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
Blowing agent treated	Blowing agent treated over reporting period	Monthly	Calculation	-

Schedule 4 – Reporting

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

Table S4.1 Reporting of monitoring data			
Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to Air 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
Noise monitoring Parameters as required by condition 3.5.1	As agreed in writing by the Environment Agency.	As specified in noise management plan	1 January
Emissions to water Parameters as required by condition 3.5.1	S1 and S2	Every 6 months	1 January, 1 July
Results of independent conformance testing of emissions to air (Total Volatile Organic Compounds and particulates) as required by table S3.1	A1 Emission control system exhaust.	Quarterly or as agreed in writing by the Environment Agency.	From the first quarter following issue of this permit / variation

Table S4.2 Production/treatment	
Parameter	Frequency
A summary of the residual waste materials removed from site, in the format of Appendix A	Quarterly

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
A summary of the wastes processed and the efficiency of the processing operations, in the format of Appendix B	Monthly	As specified in Appendix B As agreed in writing with the Environment Agency
A summary of the residual materials conformance testing, in the format of Appendix C	Quarterly	%w/w
Water usage	Annually	m ³
Energy usage	Annually	MWh
Total raw material used	Annually	tonne

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by the Environment Agency	29/07/20
Surface Water	Form water 1 or other form as agreed in writing by the Environment Agency	29/07/20
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	29/07/20
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	29/07/20
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	29/07/20
Waste returns	E-waste returns-	--
Quantities of residual materials	Quantities of residual materials from pre-dismantling and dismantling process form (Appendix A) or other form as agreed in writing by the Environment Agency	29/07/20
Process efficiency	Dismantling process efficiency reporting form (Appendix B) or other form as agreed in writing by the Environment Agency	29/07/20
Conformance testing of residual materials	Residual materials conformance testing reporting form (Appendix C) or other form as agreed in writing by the Environment Agency	29/07/20

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 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)’; and any revision to or replacement of it.

“blowing agent” Blowing agent used in the foam formation process and contained in the insulating foam of a refrigeration 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 refrigeration 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.

“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” Independent sampling and testing of residual materials and emission points to confirm whether or not the standards set in the permit for fridge dismantling 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

“insulation panel” 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.

“insulation panel type” Based upon the type of facing material used to back or sandwich the insulation panel foam (e.g. aluminium foil, steel sheet, wood).

“integral” means a commercial end of life refrigeration unit which are similar to domestic fridges in that they contain compressors with oils and refrigerants, and are designed to independently cool within the cabinet shell.

“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, 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 refrigeration unit. Refrigerants include chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs), hydrofluorocarbons (HFCs), hydrocarbons (HCs) and ammonia.

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

Type 1	Refrigerator with storage capacity <0.18m ³
Type 2	Refrigerator or combined refrigerator/freezer with storage capacity >0.18m ³ & <0.35m ³
Type 3	Freezer with storage capacity <0.50m ³
Type 4	any refrigerator or freezer not covered by Types 1-3

“refrigeration unit” should be taken to include all types of refrigeration equipment as well as appliances like heat pump tumble dryers, de-humidifiers and portable air conditioners, and comparable commercial refrigeration units and appliances, are not explicitly included in the unit types defined above, however they should still be taken into account in the Appendix A and Appendix B reporting requirements and managed in accordance with the conditions of the permit where relevant.

“refrigeration unit carcass” is the term used to describe refrigeration unit following completion of pre-dismantling processing (i.e. following drainage of cooling system and removal of compressor and any switches/components, condensers and electronic drives).

“remote” means a commercial end of life unit that consists of the cabinet or shell in which products are placed and that does not contain compressors with oils and refrigerants.

“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.

“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

“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).

“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 S2.2 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.

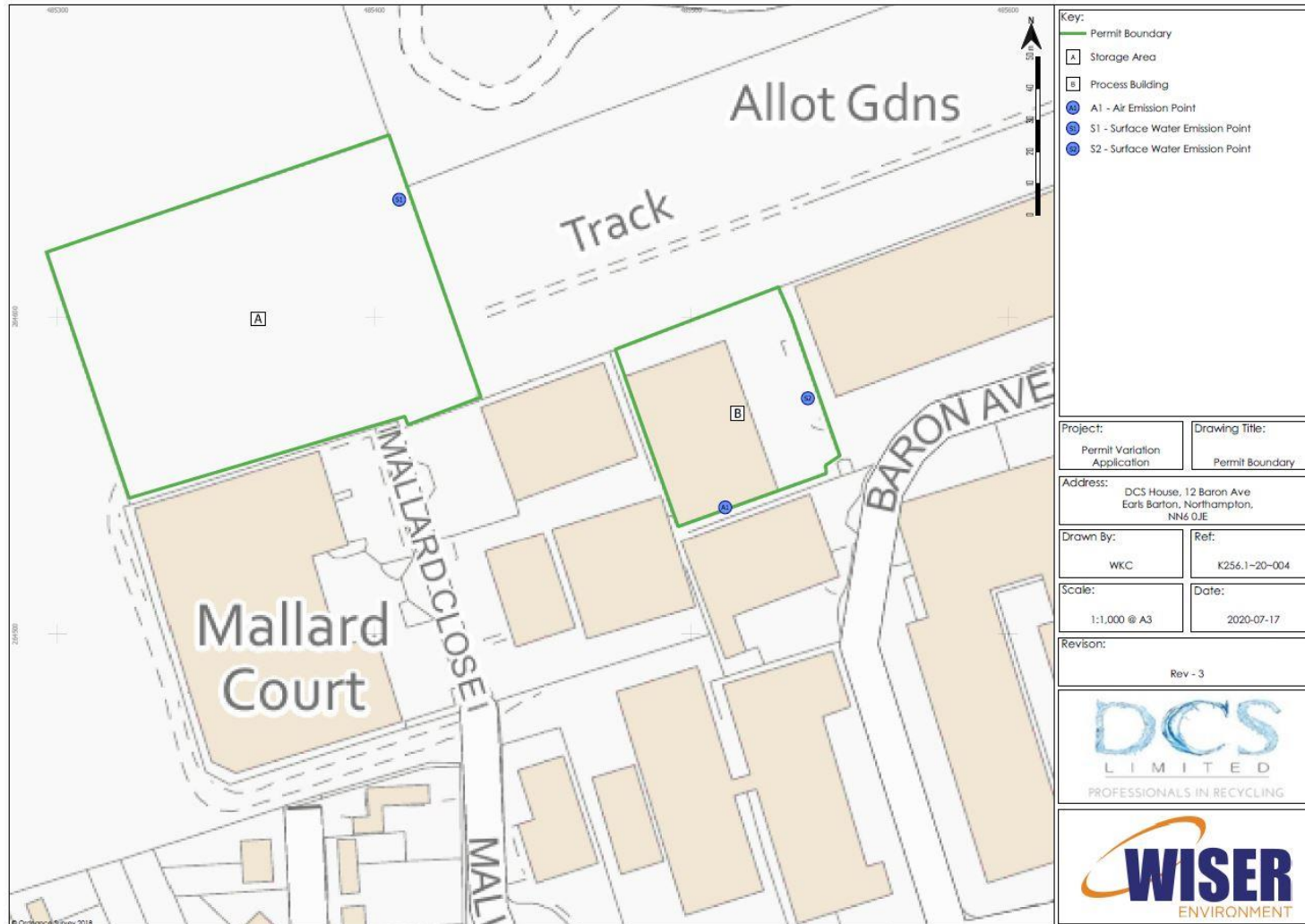
“transition metals” means any of the following metals: any compound of scandium, vanadium, manganese, cobalt, copper, yttrium, niobium, hafnium, tungsten, titanium, chromium, iron, nickel, zinc, zirconium, molybdenum and tantalum, as well as these materials in metallic form, as far as these are classified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

“stabilisation” means processes which change the hazardousness of the constituents in the waste and transform hazardous waste into non-hazardous waste.

“solidification” means processes which only change the physical state of the waste by using additives without changing the chemical properties of the waste.

“partly stabilised wastes” means wastes containing, after the stabilisation process, hazardous constituents which have not been changed completely into non-hazardous constituents and could be released into the environment in the short, middle or long term.

Schedule 7 – Site plan



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END OF PERMIT

Permit Number: **EPR/EB3100HN** **Operator:** **Davis Commercial Services Ltd**
Facility: **DCS House** **Form Number:** **Air1 / 29/07/20**

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

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
A1 Emission control system exhaust	Total particulates	10 mg/m ³	Hourly average		As agreed with the Environment Agency		
	Other volatile organic compounds (including HCFCs, HFCs and HCs)	15 mg/Nm ³	Hourly average				

[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/EB3100HN** **Operator:** **Davis Commercial Services Ltd**
Facility: **DCS House** **Form Number:** **Water1 / 29/07/20**

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

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
S1							
S2							

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/EB3100HN**

Operator: **Davis Commercial Services Ltd**

Facility: **DCS House**

Form Number: **Waterusage1 / 29/07/20**

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

Date.....

(authorised to sign as representative of Operator)

Permit Number: **EPR/EB3100HN**

Operator: **Davis Commercial Services Ltd**

Facility: **DCS House**

Form Number: **Energy1 / 29/07/20**

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		
Recovered Fuel Oil	tonnes		
Biogas	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/EB3100HN**

Operator: **Davis Commercial Services Ltd**

Facility: **DCS House**

Form Number: **Peformance1 / 29/07/20**

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

Parameter	Units

Operator's comments:

Signed

Date.....

(Authorised to sign as representative of Operator)

Appendix A

Permit Number: **EPR/EB3100HN** **Operator:** **Davis Commercial Services Ltd**
Facility: **DCS House** **Form Number:** **Appendix A / 29/07/20**

Residual materials removed from DD/MM/YYYY to DD/MM/YYYY

Quantities of residual materials from pre-dismantling and dismantling processes		
Residual materials	Waste Categories	Quantities
Refrigerants and blowing agents	14 06 01* chlorofluorocarbons, HCFC, HFC	kg
Refrigerants and blowing agents	14 06 03* other solvents and solvent mixtures ¹	kg
Compressor oil	13 02 08* other engine, gear and lubricating oils	litres
Spent activated carbon	06 13 02* spent activated carbon (except 06 07 02)	kg
Mercury switches etc.	19 10 05* other fractions containing dangerous substances	kg
Ferrous metal	19 10 01 iron and steel waste	tonnes
Non-ferrous metal	19 10 02 non-ferrous waste	tonnes
Polyurethane foam	19 12 04 plastic and rubber	tonnes
Plastic and rubber	19 12 04 plastic and rubber	tonnes
Glass	19 02 05 glass	tonnes
Others	19 10 06 other fractions other than those mentioned in 19 10 05	kg

[1] 14 06 03* should only be used if the waste does not contain CFC, HCFC or HFC refrigerant or blowing agent.

Appendix B

Permit Number: **EPR/EB3100HN** **Operator:** **Davis Commercial Services Ltd**
Facility: **DCS House** **Form Number:** **Appendix B / 29/07/20**

Dismantling process efficiency reporting from DD/MM/YYYY to DD/MM/YYYY

Stage 1 Degassing

Record of refrigeration units received for Stage 1 degassing			
Type of unit	Number of units	Assumed refrigerant content	Refrigerant totals
Number of defective units ¹		--	--
Number of degassed unit received		--	--
Number of units containing halogenated refrigerants (HFCs) (A)		x As per IC10 =	
Number of units containing a hydrocarbon refrigerant (B)		x As per IC10 =	
Number of units containing ammonia refrigerant (C)		x As per IC10 =	
Number of other non-defective appliances ²			
Total number of viable units (D) = (A) + (B) + (C)		Total refrigerant =	g

[1] Identified from visual inspection (i.e. no compressor or damaged cooling circuit, manometer (no gas pressure), or foam formation in inspection glass).

[2] Includes heat-pump tumble dryers, de-humidifiers and air conditioners.

Theoretical recovery of refrigerant per unit	
Total refrigerant / (D)	g per unit

Recovery of refrigerant	Amount / unit
Weight of refrigerant storage container at start of reporting period (E)	g
Weight of refrigerant storage container at end of reporting period (F)	g
Weight of refrigerant recovered during reporting period (G) = (F) – (E)	g
Average weight of recovered refrigerant per unit = (G) / (D)	g per unit

Stage 2 Dismantling and processing

Record of unit carcasses processed			
Type of unit	Number of units	Assumed blowing agent content	Blowing agent totals
Carcasses containing hydrocarbon blowing agents			
Type 1		x As per IC10 BA/unit =	g
Type 2		x As per IC10 BA/unit =	g
Type 3 & 4		x As per IC10 g BA/unit =	g
Total number of units processed for dismantling (H)		Theoretical total blowing agent to be recovered	g

Theoretical blowing agent recovery per unit for given unit type mix	
Theoretical total blowing agent / number of units (H)	g per unit

Appendix C

Permit Number: EPR/EB3100HN Operator: Davis Commercial Services Ltd

Facility: DCS House Form Number: Appendix C / 29/07/20

Residual materials conformance testing reporting from DD/MM/YYYY to DD/MM/YYYY

Residual materials		
Parameter	Limit	Sampling Result(s)
Quantity of foam remaining on the metal after processing	0.5 % w/w	
Quantity of foam remaining on the plastic after processing	1 % w/w	
Concentration of refrigerant in the compressor oil	<0.9% w/w	