Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Areera Ltd

Areera Ltd

Elland Road
Elland
West Yorkshire
HX5 9JD

Permit number

EPR/XP3205SC

Areera Ltd
Permit number EPR/XP3205SC

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

This permit authorises the operation of a Waste Electrical and Electronic Equipment (WEEE) Authorised Treatment Facility (ATF). The facility uses a combination of manual processes and precision automation systems to separate and return recyclable components from flat screen display units into the circular economy. The facility is located on an industrial park at Elland Road, Halifax, West Yorkshire, HX5 9JD.

The scheduled activities carried out at the site will be:

- 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 of WEEE.

- Section 5.6 Part A (1) activity - temporary storage of hazardous waste with a total capacity exceeding 50 tonnes pending any of the activities listed in Sections 5.1, 5.2 and 5.3.

  There facility also comprises of a number of Directly Associated Activities (DAA).

The main features of the installation

WEEE accepted at the site will consist of; Televisions, PC monitors, notebook/portable computers, LCD, LED and plasma display units, as well as CRT (cathode ray tube) monitors. With the exception of the CRT screens, all units will be fed through a mechanical process unit with the depolluted output manually separated into individual material types. Products that contain mercury will be processed in an enclosed environment with a filtration system that will capture any mercury vapour and particulates released. Display units are received as a single mixed stream and, on arrival, are manually pre-sorted/triaged by technology type in buildings. LCD units are, following removal of speakers, plugs and accessories, processed. All display and notebook/portable computer depolluted outputs are then manually separated into individual material types for outbound shipping for final recovery. The Intact CRT screens will be processed through a “hot-wire” splitter to separate the glass into the (hazardous) funnel glass and (non-hazardous) panel glass, in order that the material types can be recycled, where feasible.

The site will also accept various types of waste plastics including plastics containing Brominated Flame Retardants (BFRs). These can include Persistent Organic Pollutants (POPs). The Plastics will be shredded into a uniformed size and have the ferrous metal content removed by magnets. The plastics then pass through an x-ray process that separates them into bromine containing and non-bromine fractions. The fractions will be transferred to an appropriate recycling/disposal facility.

Residues/outputs are stored internally in the outbound fraction storage areas either baled or in supersacks depending on the material type. Material is then loaded into shipping containers or trailers for onward shipping to final processing facilities. Batteries will be stored externally within shipping containers.

All treatment will be carried out inside buildings with no external emission points to atmosphere. The annual throughput shall be less than 72,000 tonnes per year. The storage and treatment of Waste Electrical and Electronic Equipment WEEE must be carried out using the Best Available Treatment Recovery and Recycling Techniques (BATRRT).

We have included process monitoring for emissions of mercury and particulates that may be produced from the process within the buildings. This will require the operator to monitor emissions of air extracted from certain treatment areas of the buildings. The air is passed through activated carbon and HEPA filter and recirculated in the building.

The closest residential receptors are the houses on Cromwell Bottom Drive, approximately 180m to the east of the site, with further residential properties being developed approximately 250m to the west on Elland Road. There several local protected habitats, local wildlife sites and Local Nature Reserves close to the facility. There are no European conservation sites or SSSI's with 10,000m of the facility.

The status log of the 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/XP3205BR/A001	Duly made 20/11/2020	Application for a WEEE Authorised Treatment Facility (ATF).
Additional information Schedule 5 Notice issued	03/12/2020	Response to Schedule 5 notice including additional information on operational processes, clarification of waste codes, drainage plans, revised Fire Prevention Plan (FPP) V2, Revised non-technical summary.
Additional information received	15/12/2020	Response to Schedule 5 notice including additional information on FPP V2.
Additional information received	31/12/2020	Revised Introductory note
Additional information received	05/01/2021	Details of discharge to water/sewage
Additional information received	07/01/2021	Site Plan Revised version
Additional information received	12/01/2021	Details of treatment capacities
Permit determined EPR/XP3205SC Billing XP3205SC	26/01/2021	Permit issued to Areera Ltd

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/XP3205SC

The Environment Agency hereby authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016

Areera Ltd (“the operator”),

whose registered office is

C/O Buy it Direct Limited
Unit A
Trident Business Park
Leeds Road
Huddersfield
England
HD2 1UA
company registration number 12574362

to operate an installation at

Areera Ltd
Elland Road
Elland
West Yorkshire
HX5 9JD

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

Name	Date
Anne Lloyd	**26/01/2021**

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 (AR1 to AR8) 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 (AR1 and AR8) 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 For the following activities referenced in schedule1, table S1.1 (AR1 to AR8.) 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, 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 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, S2.3 and S2.4.

(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 property 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.

2.4 Technical requirements

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 (BATRRT).

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 unless the WEEE is being prepared for re-use or the operator has taken appropriate measures to ensure their removal following transfer off site.

2.5.6 Separately collected components of WEEE specified in table S1.4 shall be treated in accordance with the methods specified in that table unless the WEEE is being prepared for re-use or the operator has taken appropriate measures to ensure such treatment following transfer off site.

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 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

3.2 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 Fire prevention

3.5.1 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.

3.6 Monitoring

3.6.1 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) process monitoring specified in table S3.2

3.6.2 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.

3.6.3 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.

3.6.4 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 S3.2 unless otherwise agreed in writing by the Environment Agency.

3.6.5 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.

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 (AR1 to AR8) 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 S4.1; and

(c) the performance parameters set out in schedule 4 table S4.2 using the forms specified in table S4.3 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 quarter.

4.3 Notifications

4.3.1 For the following activities referenced in schedule 1, tables S1.1 (AR1 to AR8) 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.

4.4 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 “without delay”, in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 activities for WEEE storage and Treatment			
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	Section 5.3A (1) (a) (ii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving the following activities; physico-chemical treatment.	Treatment of hazardous WEEE including: whole assembled televisions, computer monitors, flat panel displays and computer notebook/portables containing flat panel displays, consisting of sorting, mechanical processing, sorting, separation, screening, for the purpose of recovery of constituent parts and materials. 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 receipt of waste to the treatment process to the transfer of recovered components. Treatment shall be carried out within a building. Maximum treatment capacity is 100 tonnes/day. Waste types suitable for acceptance are limited to flat panel devices specified in Table S2.2.
AR2	Section 5.3A (1) (a) (ii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving the following activities - physico-chemical treatment.	Treatment of WEEE plastics including manual separation, shredding and X-ray separation of Bromine containing and non-Bromine containing plastic. R3: Recycling/reclamation of organic substances which are not used as solvents.	From receipt of waste to the treatment process to the transfer of recovered components. Treatment shall be carried out within a building. Maximum treatment capacity for shredder and x-ray is 50 tonnes/day. Waste types suitable for acceptance are limited to those specified in Table S2.3.
AR3	Section 5.3A (1)(a)(ii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving the following activities - physico-chemical treatment.	Physical treatment consisting of Hot wire splitting of CRT (Cathode Ray Tube). R5: Recycling/reclamation of other inorganic materials.	Maximum treatment capacity is 60 tonnes/day Treatment shall be carried out within a building Waste types suitable for acceptance are limited to those specified in Table S2.4
AR4	S5.6 A(1)(a)The temporary storage of hazardous waste in a facility with a total capacity exceeding 50 tonnes pending any of the activities listed in sections 5.1, 5.2 and 5.3.	D15: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced). R13: Storage of waste pending the operations numbered R1 to R12 (excluding temporary	Storage of hazardous waste prior to treatment or disposal off site. All hazardous waste storage pending treatment shall not exceed 6 months, without prior written approval from the Environment Agency.

Table S1.1 activities for WEEE storage and Treatment			
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**
		storage, pending collection, on the site where it is produced.	Storage of waste shall be in a building or in a weatherproof container on an impermeable surface with a sealed drainage system. Storage for activity AR1 is limited to 130 tonnes at any one time. Storage for activity AR2 is limited to 220 tonnes at any one time. Waste types suitable for acceptance are limited to those specified in Tables S2.2, S2.3 and S2.4.
	Directly Associated Activity		
AR5	Physical treatment (i.e. sorting and separation) of waste prior to treatment.	Sorting, dismantling, separation of stands, external brackets, cables. R3: Recycling/reclamation of organic substances which are not used as solvents.	Treatment shall be carried out within a building. Waste shall be stored and treated on an impermeable surface with sealed drainage system.
AR6	Storage of waste, 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 Hazardous waste prior to treatment. Storage of waste shall be in a building or in a weatherproof container on an impermeable surface with a sealed drainage system. Waste shall be stored and treated on an impermeable surface with sealed drainage system.
AR7	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 non-hazardous waste post treatment prior to transfer off site. Storage of waste shall be in a building or in a weatherproof container on an impermeable surface with a sealed drainage system.
AR8	Abatement of extracted air from FPD processing and plastic shredding.	Extraction of air via negative air flow from all processing areas for routing through a HEPA filter and a sulphur-impregnated activated carbon filter.	Abatement of extracted air from all FPD processing and plastic shredding areas.
AR9	Site drainage discharge.	Discharge of site drainage from external areas.	Collection and discharge of uncontaminated surface

Table S1.1 activities for WEEE storage and Treatment			
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**
			water to local watercourse via underground storage tank.
AR10	Raw materials storage.	Storage of raw materials including diesel.	From the receipt of raw materials to despatch for use within the facility.

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Application	BATRRT Requirement Doc14	14/08/2020
Additional Information	Flow diagram showing production flows	03/11/2020
Response to Schedule 5 Notice dated 18/11/2020	Schedule 5 Notice Questions 1 to 38. Response to Schedule 5 questions 1 to 38 notice including: additional information on operational processes, clarification of waste codes, drainage plans, revised Fire Prevention Plan (FPP) V 2, Revised non-technical summary and Management summary.	3/12/2020
Response to Schedule 5 Notice dated 18/11/2020 additional information	Details of processing, storage and transfer of mercury lamps. Fire Prevention Plan V2 information.	15/12/2020
Additional Information	Separation process technical document (6/5/2020).	03/12/2020
Additional Information	Mechanical sorting technical document.	03/12/2020

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

- 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 Improvement programme requirements		
Reference	**Requirement**	**Date**
IP1	The operator shall submit to the Environment Agency for approval proposals to demonstrate on an ongoing basis the effectiveness of the process in separating plastic containing brominated flame retardants from that which does not. Process monitoring shall be undertaken in accordance with the approved proposals.	6 months from the start of relevant operations, or as otherwise agreed by the Environment Agency.
IP2	The operator shall submit to the Environment Agency for approval proposals for the monitoring of mercury in the output fractions from the FPD Pro. Process monitoring shall be undertaken in accordance with the approved proposals.	3 months from the start of relevant operations, or as otherwise agreed by the Environment Agency.

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 mechanical processing through the FPD Pro system (Activity AR1).	
Maximum quantity	**The total quantity of waste accepted at the site shall not exceed 72,000 tonnes a year.** **Annual throughput for this activity is 41,000 tonnes per year.**
Waste code	**Description**
16	**Wastes not otherwise specified in the list**
16 02	**wastes from electrical and electronic equipment**
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
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 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 200121 and 20 01 23 or 20 01 35

Table S2.3 Permitted waste types and quantities for shredding and X-Ray separation treatment (Activity AR2).	
Maximum quantity	**The total quantity of waste accepted at the site shall be less than 72,000 tonnes a year.** **Annual throughput for this activity is 22,000 tonnes per year.**
Waste code	**Description**
16	**Wastes not otherwise specified in the list**
16 02	**wastes from electrical and electronic equipment**
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 discarded equipment - hazardous plastic components
16 02 16	Components removed from discarded equipment other than those mentioned in 16 02 15 – non-hazardous plastics only
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**

Table S2.3 Permitted waste types and quantities for shredding and X-Ray separation treatment (Activity AR2).	
Maximum quantity	**The total quantity of waste accepted at the site shall be less than 72,000 tonnes a year.** **Annual throughput for this activity is 22,000 tonnes per year.**
Waste code	**Description**
19 02	**wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)**
19 02 04*	Premixed wastes composed of at least one hazardous waste. Mixed waste from treating WEEE containing hazardous components and POPs
19 12	**wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified**
19 12 11*	Other wastes (including mixtures of materials) from mechanical treatment of waste containing hazardous substances. Plastics based fractions from WEEE
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 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 and 20 01 23 or 20 01 35

Table S2.4 Permitted waste types and quantities for CRT treatment (Activity AR3).	
Maximum quantity	**The total quantity of waste accepted at the site shall be less than 72,000 tonnes a year.** **Annual throughput for this activity is 10,000 tonnes per year.**
Waste code	**Description**
16	**Wastes not otherwise specified in the list**
16 02	**wastes from electrical and electronic equipment**
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
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 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 and 20 01 23 or 20 01 35

Schedule 3 – Emissions and monitoring

Table S3.1 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	Uncontaminated site source water from roofs and non-operational areas	No parameter set	No limit set	--	--	-

Table S3.2– Process monitoring requirements					
Parameter	**Source**	**Limit (including unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
Total suspended particulates	Exhaust silencer exit	5 mg/m^3	Average value of 3 consecutive measurements of at least 30 minutes each	6 months	BS EN 13284-1
Mercury		7 $\mu g/m^3$	Average value of 3 consecutive measurements of at least 30 minutes each	Monthly for first 6 months then quarterly	BS EN 13211

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**
Process Air 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.

Table S4.2 Annual production/treatment	
Parameter	**Units**
WEEE processed	tonnes
Ferrous metal recovered	tonnes
Non-ferrous metal recovered	tonnes
Other fractions recovered	tonnes
Non-metallic shredder residue	tonnes

Table S4.2 Performance parameters		
Parameter	**Frequency of assessment**	**Units**
Water usage	Annually	tonnes
Energy usage	Annually	MWh

Table S4.3 Reporting forms	
Media/parameter	**Reporting format**
Air	Form air 1 or other form as agreed in writing by the Environment Agency
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency
Waste	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 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.

“Annex I” means Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“Annex II” means Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“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.

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 (BATRRT) and Treatment of Waste Electrical and Electronic Equipment (WEEE)’; and any revision to or replacement of it.

“building” means a construction that has the objective of providing sheltering cover and minimising emissions of noise, particulate matter, odour and litter.

“D” means a disposal operation 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.

“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.

“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 lll of the Waste Framework Directive.

“Hazardous waste” has the meaning given in the Hazardous Waste (England and Wales) Regulations 2005 (as amended).

“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.

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

“Persistent organic pollutant” “POP” means any substance listed in Annex IV of Regulation (EU) 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants.

“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.

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

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

“Waste code” means the six digit code referable to a type of waste in accordance with the List of Wastes 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.

When the following terms appear in the waste code list in Schedule 2, table S2.1 for that table 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.

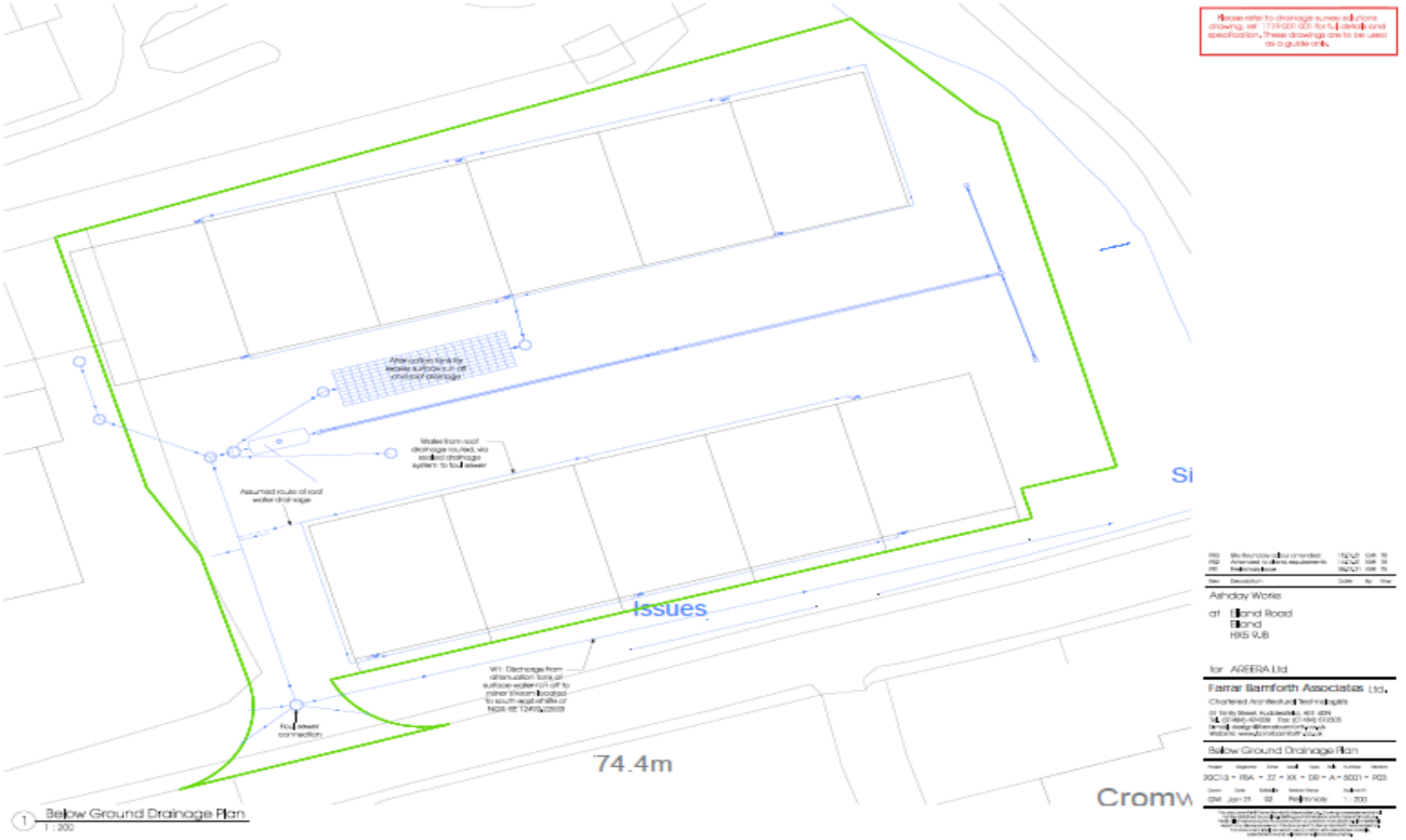
“transition metals” means any of the following metals: any compound of scandium, vanadium, manganese, cobalt, copper, yttrium, niobium, hafnium, tungsten, titanium, chromium, iron, nickel, zinc, zirconium, molybdenum and tantalum, as well as these materials in metallic form, as far as these are classified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