Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Kawneer UK Limited

Astmoor Road
Astmoor Industrial Estate
Runcorn
Cheshire
WA7 1QQ

Permit number

EPR/YP3103BN

Permit number EPR/YP3103BN

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

Kawneer UK Limited (the Operator) operate an Installation for the surface treatment of metals and is a manufacturer of finished aluminium architectural systems such as curtain walling, doors and windows. The Runcorn facility manufactures “end-to-end” including extruding, inserting thermal breaks, and powder coating aluminium window framing systems.

The main manufacturing processes at the Site are:

- Extrusion of aluminium billet;
- Surface treating the extruded lengths prior to powder coating;
- Polyester powder coating of the extruded lengths;
- Thermally insulating the extruded lengths; and
- Cutting and fabricating the extrusions into custom built architectural systems.

Apart from the manufacturing area the facility also have: an Effluent Treatment Plant (ETP), air pollution control equipment, acidic/basic chemicals, and demineralisation support systems.

The Installation is located on the Astmoor Road Industrial Estate in Runcorn, Cheshire. The National Grid Reference SJ 53906 83566.

The installation consists of the following three scheduled activities;

1. Section 2.3 Part A (2) (a) Surface treating metal and plastics materials using an electrolysis or chemical process where the aggregated volume of the treatment vat is more than 30 m3”. The vats maximum design capacity is 37.15m3

2. Section 5.3 Part A (1) (a) (ii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment; On-site effluent treatment of liquors from surface treatment activity. The maximum volume is 240m³ per day potential treatment.

3. Section 6.4 Part B(a)(i) Any process for applying to a substrate, or drying or curing after such application, printing ink or paint or any other coating material as, or in the course of, a manufacturing activity, where the process may result in the release into the air of particulate matter or of any volatile organic compound and is likely to involve the use in any 12-month period of 20 or more tonnes of printing ink, paint or other coating material which is applied in solid form. The maximum paint usage is 194 tons per year.

The following Directly Associated Activities (DAA, s) are also carried out;

Waste storage and handling, storage & handling of raw material, fume extraction and fume abatement , extrusion of cast Aluminium billets in a gas fired heater and 2,200 tonne extrusion press, cleaning, rinsing and drying of the work being surface treated, heat treatment, Jig Stripping , mechanical treatment and degreasing.

All waste liquids from the plant are processed through an on-site effluent Treatment Plant (ETP) prior to discharge into the Manchester Ship Canal (MSC). The effluent solids collected in the process are separated and sent to landfill as filter cake. A second discharge point to the MSC is a disused uncontaminated surface water drain. These surface water discharges are protected by a series of measures to prevent accidental spillages to surface reaching the Canal.

Kawneer operate an ISO14001 accredited environmental management system (EMS) for the installation.

There are two European sites within 10 km of the site. These are the Mersey Estuary Ramsar and Mersey Estuary SPA located approximately 3085m from the site. The nearest sensitive receptor is a Local Wildlife site (LWS), the Manchester Ship Canal Bank Astmoor, approximately 30m from the installation boundary and Wigg Island, a Local Nature Reserve (LNR) and LWS, approximately 670m north of the installation.

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 EPR/YP3103BN/A001	Duly made 06/09/2019	Application for a Surface Metal treatment installation
Additional Information	01/06/2020	e-mail confirming the maximum volumes for the three listed activities
Additional information	04/06/2020	Revised site plan with emission points.
Permit determined EPR/YP3103BN (PAS Billing ref. YP3103BN).	10/08/2020	Permit issued to Kawneer UK Limited

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/YP3103BN

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

Kawneer UK Limited ("the operator"),

whose registered office is

Kawneer UK.
Astmoor Road
Astmoor Industrial Estate
Runcorn
Cheshire
WA7 1QQ

company registration number 02917765

to operate an installation at

Astmoor Road
Astmoor Industrial Estate
Runcorn
Cheshire
WA7 1QQ

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

Name	Date
Anne Lloyd	**10/08/2020**

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.

1.2 Energy efficiency

1.2.1 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 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").

2.2 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, 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 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.

2.3.4 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.

2.3.5 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 Improvement programme

2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.

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

3 Emissions and monitoring

3.1 Emissions to water, air or land

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

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

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

3.2 Emissions of substances not controlled by emission limits

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

3.2.2 The operator shall:

(a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;

(b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

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

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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.

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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.

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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, S3.2 and S3.3;

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

3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.

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

4 Information

4.1 Records

4.1.1 All records required to be made by this permit shall:

(a) be legible;

(b) be made as soon as reasonably practicable;

(c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and

(d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:

(i) off-site environmental effects; and

(ii) matters which affect the condition of the land and groundwater.

4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

4.2 Reporting

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

4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:

(a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;

(b) the annual production /treatment data set out in schedule 4 table S4.2; and

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

4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:

(a) in respect of the parameters and emission points specified in schedule 4 table S4.1;

(b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4 ; and

(c) giving the information from such results and assessments as may be required by the forms specified in those tables.

4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

4.3 Notifications

4.3.1 In the event:

(a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—

(i) inform the Environment Agency,

(ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and

(iii) take the measures necessary to prevent further possible incidents or accidents;

(b) of a breach of any permit condition the operator must immediately—

(i) inform the Environment Agency, and

(ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;

(c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.

4.3.2 Any information provided under condition 4.3.1 [(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 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 "immediately in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 Activities			
Activity reference	**Activity listed in Schedule 1 of the EP Regulations**	**Description of specified activity and WFD Annex I and II operations**	**Limits of specified activity and waste types**
AR1	Section 5.3 Part A (1) (a) (ii)	Disposal of hazardous waste with a capacity exceeding 10 tonnes per day (or 100 tonnes per day if the only waste treatment activity is anaerobic digestion) involving one or more of the following activities, and excluding activities covered by Council Directive 91/271/EEC concerning urban waste-water treatment. Physico-chemical treatment of process aqueous effluent.	Receipt and storage of effluent, physico-chemical effluent treatment, disposal or recycling of cleaned water and final effluent discharge from site. The maximum capacity is 240m³ per day potential treatment
AR2	Section 2.3 Part A(2)(a) (iii)	Surface treating metals and plastic materials using an electrolytic or chemical process where the aggregated volume of the treatment vats is more than 30m3 and where the activity is carried on at the same installation as one or more activities falling within— (iii) Part A (2) or Part B of Section 6.4.	From receipt of raw materials to dispatch of treated parts. Surface treatment of metals techniques include etching, desmutting and oxidising The maximum vat volume is 127.5 m³
AR3	Section 6.4 Part B(a)(i)	a) Unless falling within Part A(1) or Part A(2) of this Section or Part A(2)(c) of Section 2.1, any process (other than for the re-painting or re-spraying of or of parts of aircraft or road or railway vehicles) for applying to a substrate, or drying or curing after such application, printing ink or paint or any other coating material as, or in the course of, a manufacturing activity, where the process may result in the release into the air of particulate matter or of any volatile organic compound and is likely to involve the use in any 12-month period of—	Receipt of surface treated raw materials to despatch of cured powder coated parts. The maximum capacity paint usage is 194 tons per year

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**
		(i) 20 or more tonnes of printing ink, paint or other coating material which is applied in solid form,	
	Directly Associated Activity		
AR4	Directly Associated Activity	Waste storage and handling	Production, storage, handling and disposal/recovery of process wastes arising from the installation
AR5	Directly Associated Activity	Storage & handling of raw materials	From receipt and storage of materials to transfer to processing areas
AR6	Directly Associated Activity	Fume extraction and fume abatement	Fume extraction ductwork and discharge via abatement or direct to air.
AR7	Directly Associated Activity	Extrusion of cast Aluminium billets in a gas fired heater and 2200 tonne extrusion press	From receipt of raw materials, extrusion and heat treatment in a gas fired oven
AR8	Directly Associated Activity	Cleaning, rinsing and drying of the work being surface treated	Immersion of components in alkaline property cleaning agent pre-surface treatment. Rinsing and drying of the components post treatment. Alkaline and acidic pre-surface treatments are used
AR9	Directly Associated Activity	Heat Treatment	The operation of a gas oven to carry out heat treatment of extruded components for surface treatment and powder coating
AR10	Directly Associated Activity	Jig Stripping Oven	From receipt of paint coated, heating in a gas fired oven, steam cleaning and dispatch of treated jigs for reuse. Steam or water cleaning may be used.
AR11	Directly Associated Activity	Mechanical Treatment	From receipt of treated parts, finishing, cutting and fabricating extrusions into custom architectural systems to dispatch for further treatment.
AR12	Directly Associated Activity	Degreasing	Aqueous degreasing –using water based solution Process tanks 1 and 2 hold degreasing solution.

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**
			Monitored twice per day by onsite lab technician.

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Application EPR/YP3103BN/A001	Application documents, answers provided in response to Parts B2 and B3 of the application forms and all reference document plus duly making responses	Duly Made 06/09/2019
Application	Supporting information document dated 30/08/2019- Version A final	11/09/2019
Additional information received	E-mail confirming the maximum capacities for the three listed activities	01/06/2020
Additional information received	Revised site plan with emission points.	04/06/2020

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC1	The Operator shall undertake an assessment of the options (including a cost benefit analysis if relevant) for reducing process contributions of oxides of nitrogen at all the Local Wildlife Sites within 2 km of the screening distance. This shall include proposals for reduced oxides of nitrogen concentrations from key emission points; A101, A106, A107 and A108. The assessment shall include, but not be limited to, consideration of the effect on oxides of nitrogen process contributions through increasing the exhaust stack height of one or more of the emission points to air and through application of further abatement techniques. The Operator may include confirmatory emissions testing results as part of the assessment of process contributions. The Operator shall submit a report to the Environment Agency for approval detailing the findings of the assessment and proposals (including timescales) for the implementation of any improvements identified. The Environment Agency will confirm in writing final emission point concentrations for Oxides of Nitrogen for the emissions listed above to be complied with. The Operator shall complete the changes in accordance with the scope and timescales as agreed in writing with the Environment Agency	12 months from permit issue date or otherwise agreed in writing with the Environment Agency

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC2	The Operator shall submit a written report to the Environment Agency addressing a review of the effluent volume discharged via W1 from the effluent treatment plant and the concentration of BOD. The operator's report shall include a review of their actual operational monitoring results from the effluent treatment plant and an assessment of the effluent volume and BOD emissions that can be achieved under normal operating conditions. As an outcome of this report, the Environment Agency will confirm in writing any changes in emission limit values in Table S3.2	12 months from permit issue date or as agreed in writing with the Environment Agency
IC3	The operator shall carry out an assessment in accordance with our Environment Agency Guidance H5 Site condition report – guidance and templates and the European Commission Guidance concerning baseline reports under Article 22(2) of Directive 2010/75/EU on industrial emissions (2014/C 136/03), to consider whether they wish to set baseline reference data for any relevant substances of concern taking into account the condition of pollution prevention measures. Additionally, if storing/using hazardous substances on site, the operator will need to complete a Stage 1 – 3 assessment in line with the guidance set out within our EC Commission Guidance on baseline reports, to determine whether baseline reference data is required for hazardous substances. If as a consequence of this assessment, the Site Condition Report will be subject to modifications, the Operator shall submit a revised Site Condition Report to the Environment Agency for approval. The completed site condition report shall meet the Industrial Emissions Directive Baseline Reporting requirements as stated in Environmental Permitting (England & Wales) Regulation (2016) regulation 35(1) Schedule 7(5)(m) The Environment Agency shall confirm in writing the approval of this improvement condition.	12 months from permit issue date or as agreed in writing with the Environment Agency
IC4	The Operator shall submit a final proposal for the storage, assessment and discharge in a controlled manner of contaminated fire water in the event of an incident. The proposal shall ensure sufficient contained storage volume is available for temporary storage of fire water run-off. The proposal shall include but not be limited to: • Emergency contained storage facilities for fire water with final storage volumes inside and external to main process building. • Final emergency procedures including sampling, assessment criteria and disposal procedures for handling such fire water The Environment Agency shall confirm in writing the approval of this improvement condition	12 months from issue date or as agreed in writing with 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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Schedule 3 – Emissions and monitoring

Table S 3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	**Parameter**	**Source**	**Limit (including unit)**	**Reference Period**	**Monitoring frequency**	**Monitoring standard or method**
A101 [Extrusion] - Shown on site plan in Schedule 7	Oxides of Nitrogen (NOx)	Billet Furnace	No limit set No limit set	Minimum of one hour	As agreed in writing by the Environment Agency	*Note 1 *Note 2 BS EN 14792
A102 [Extrusion]- Shown on site plan in Schedule 7	Oxides of Nitrogen (NOx)	Aging Oven 1	No limit set	-	-	*Note 1 *Note 2 BS EN 14792
A103 [Extrusion] – shown on site plan in Schedule 7	Oxides of Nitrogen (NOx)	Aging Oven 2	No limit set	-	-	*Note 1 *Note 2 BS EN 14792
A104 [Extrusion] – Shown on site plan in Schedule 7	Oxides of Nitrogen (NOx)	Aging Oven 3	No limit set	-	-	*Note 1 *Note 2 BS EN 14792
A105 [Extrusion] - shown on site plan in Schedule 7	No parameters set	Caustic Die Strip tank (with scrubber)	No limit set	-	-	-
A106 [Surface Treatment] – shown on site plan in Schedule 7	Oxides of Nitrogen (NOx)	Tank Heater 1	No limit set	1 hour minimum	As agreed in writing by the Environment Agency	*Note 1 *Note 2 BS EN 14792
A107 [Surface Treatment] shown on site plan in Schedule 7	Oxides of Nitrogen (NOx)	Tank Heater 2 & 11	No limit set	1 hour minimum	As agreed in writing by the Environment Agency	*Note 1 *Note 2 BS EN 14792
A108 [Surface Treatment] shown on site plan in Schedule 7	Oxides of Nitrogen (NOx)	Tank Heater 3	No limit set	1 hour minimum	As agreed in writing by the Environment Agency	*Note 1 *Note 2 BS EN 14792
A109 [Surface Treatment]- shown on site plan in Schedule 7	-	Extractor 1 for Tank 1	No limit set	-	-	-

Schedule 3 – Emissions and monitoring

Table S 3.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
A110 Surface Treatment] – shown on site plan in Schedule 7	-	Extractor 2 for Tank 2	No limit seting	-	-	-
A111 [Surface Treatment] - shown on site plan in Schedule 7	-	Extractor 3 for Tank 3	No limit set	-	-	-
A112 [Surface Treatment} –shown on site plan in Schedule 7	-	Extractor 4 for Tank11	No limit set	-	-	-
A113 [Curing Oven]- shown on site plan in Schedule 7	Total Particulate Matter	IR Oven Entrance	10 mg/m^3	1 hour minimum	Annual	BS EN 13284-
A114 [Curing Oven] - Shown on site plan in Schedule 7	Total Particulate Matter	Curing Oven Zone 1	10 mg/m^3	1 hour minimum	Annual	BS EN 13284
	Oxides of Nitrogen (NOx)		No limit set	-	-	*Note 1 *Note 2 BS EN 14792
A115 [Curing Oven] - Shown on site plan in Schedule 7	Total Particulate Matter	Curing Oven Purge Extraction	10 mg/m^3	1 hour minimum	Annual	BS EN 13284
	Oxides of Nitrogen (NOx)		No limit set	-	-	*Note 1 *Note 2 BS EN 14792
A116 [Curing Oven] - Shown on site plan in Schedule 7	Total Particulate Matter	Curing Oven Zone 2	10 mg/m^3	1 hour minimum	Annual	BS EN 13284
	Oxides of Nitrogen (NOx)		No limit set	-	-	*Note 1 *Note 2 BS EN 14792
A117 [Curing Oven] – shown on site plan in Schedule 7	Total Particulate Matter	Curing Oven Cooling Zone	10 mg/m^3	1 hour minimum	Annual	BS EN 13284
A118 [Curing Oven] – shown on site plan in Schedule 7	Total Particulate Matter	Curing Oven Exit	10 mg/m^3	1 hour minimum	Annual	BS EN 13284

Schedule 3 – Emissions and monitoring

Table S 3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	**Parameter**	**Source**	**Limit (including unit)**	**Reference Period**	**Monitoring frequency**	**Monitoring standard or method**
A119 [Jig Stripping] - Shown on site plan in Schedule 7	Total Particulate Matter	Jig Oven	10 mg/m^3	1 hour minimum	Annual	EN 13284.
	VOC		50 mg/m^3	1 hour minimum	Annual	EN 12619

Note 1: Excluded from the scope of the Medium Combustion Plant Directive (MCPD) as it is a combustion plant in which the gaseous products of combustion are used for the direct heating, drying or any other treatment of objects or materials

Note *2:* Limit subject to confirmation in writing by the Environment Agency following the completion of IC 1 for NOx emissions.

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter**	**Limit (incl. unit)**	**Reference Period**	**Monitoring frequency**	**Monitoring standard or method**
W1 on Site Plan in Schedule 7 NGR: SJ 53890 83721 Discharge to Manchester Ship Canal	Discharge from Effluent Treatment Plant	Volume	240m^3/day[1]	24-hour total	Continuous	MCERTS self-monitoring of effluent flow scheme *Note 1
		BOD	*Note 1	24-hour flow-proportional composite sample	Weekly	BS EN 1899-1
		Suspended Solids (measured after drying at 105˚C)	40mg/l	24-hour flow-proportional composite sample	Weekly	EN 872
		pH	6 - 9	Instantaneous	Continuous	Calibrated probe
		Temperature	25˚C	Instantaneous	Continuous	Calibrated probe
W2 on Site Plan in Schedule 7	Uncontaminated water from part of the site's surface water drainage system	Visible oil and grease	No visible oil or grease	Spot sample	Weekly	Visual inspection

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter**	**Limit (incl. unit)**	**Reference Period**	**Monitoring frequency**	**Monitoring standard or method**
W3 Soak away to land on site plan in Schedule 7	Uncontaminated runoff from site and sanitation.	-	-	-	-	-

*Note 1: Limit to be confirmed in writing by the Environment Agency following the completion of Improvement Condition 2. Target is 30 mg/l.

Table S3.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter**	**Limit (incl. Unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
S1 - Surface water – shown on site plan in Schedule 7	Uncontaminated Surface Water	-	No limits set	-	-	-
S2 Surface water - shown on site plan in Schedule 7	Uncontaminated Surface Water	-	No limit set	-	-	-
S3 Surface water shown on site plan in Schedule 7	Uncontaminated Surface Water	-	No limit set	-	-	-

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.	A113, A114, A115, A116, A117, A118	Every 12 months	1 January
Emissions to water	W1	Every 6 months	1 January

Table S4.3 Performance parameters		
Parameter	**Frequency of assessment**	**Units**
Water usage	Annually	tonnes
Energy usage	Annually	MWh
Waste and raw material used	Annually	tonnes

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	DD/MM/YY
Water and Land	Form water 1 or other form as agreed in writing by the Environment Agency	DD/MM/YY
Waste and raw material used	Form R1 1 or other form as agreed in writing by the Environment Agency	DD/MM/YY
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	DD/MM/YY
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	DD/MM/YY
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	DD/MM/YY

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.

“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.

“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.

“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).

“Industrial Emissions Directive” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions

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

“Waste Framework Directive” or “WFD” means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste

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.

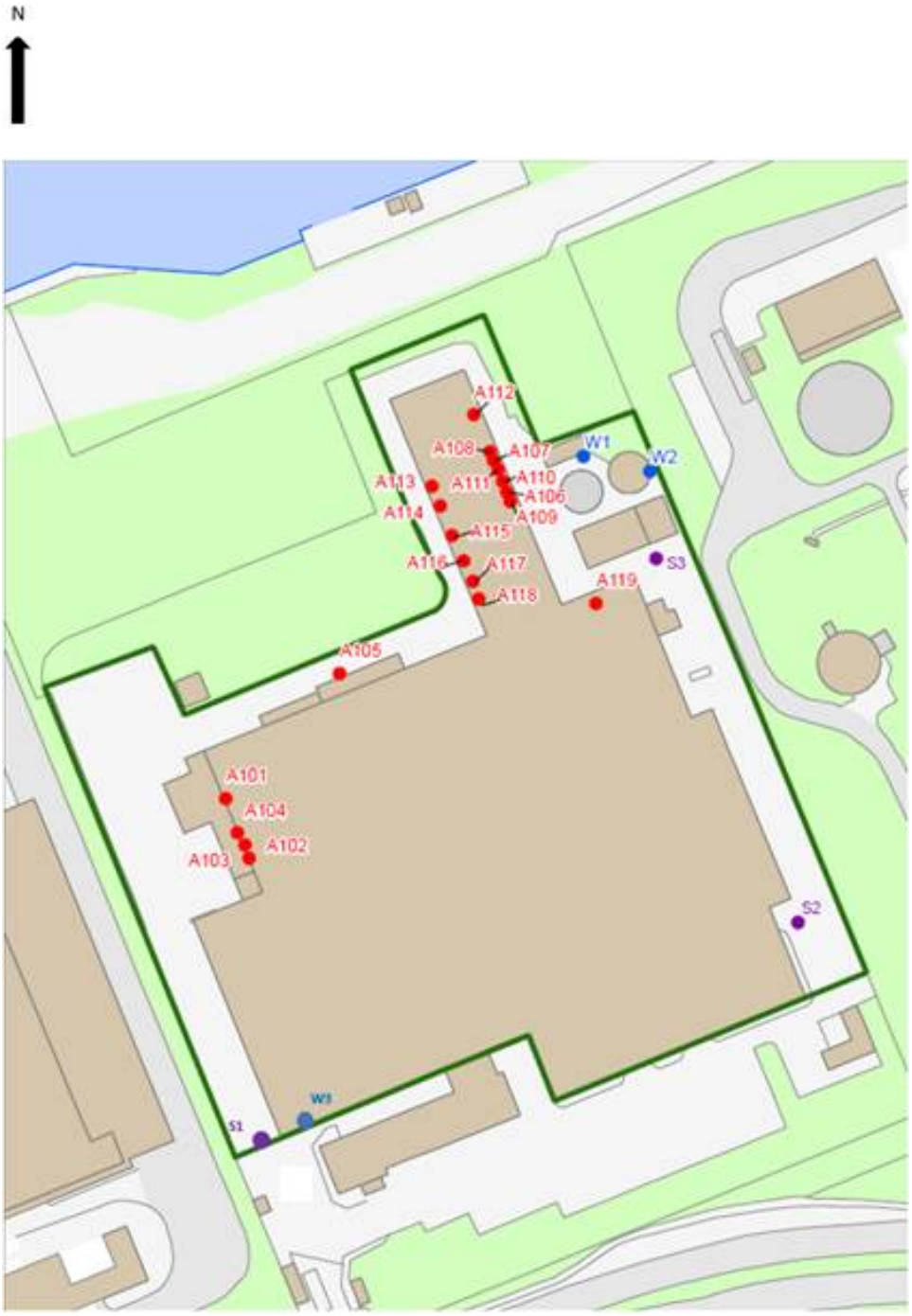
Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

- 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.

“year” means calendar year ending 31 December.

Schedule 7 – Site plan

Installation Boundary and Emissions site plan



END OF PERMIT

Permit Number: **EPR/YP3103BN** ***Operator:*** **Kawneer UK Limited**

Facility: **Astmoor Road** **Form Number: Air 1**

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]
A113	Oxides of nitrogen (NO and NO_2 expressed as NO_2)		1 hour period		BS EN 14792		
	Sulphur dioxide		1 hour period		BS EN 14791		
	Carbon monoxide		1 hour period		BS EN 15058		
	Total VOCs		1 hour period		BS EN 12619:2013		
	Total Particulate Matter	10mg/m3	1 hour				
A114	Oxides of nitrogen (NO and NO_2 expressed as NO_2)		1 hour period		BS EN 14792		
	Sulphur dioxide		1 hour period		BS EN 14791		
	Carbon monoxide		1 hour period		BS EN 15058		
	Total VOCs		1 hour period		BS EN 12619:2013		
	Total Particulate Matter	10 mg/m^3	1 hour period				

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
A115	Oxides of nitrogen (NO and NO_2 expressed as NO_2)		1 hour period		BS EN 14792		
	Carbon monoxide		1 hour period		BS EN 15058		
	Total VOCs		1 hour period		BS EN 12619:2013		
	Total Particulate Matter	10 mg/m^3					
A116	Oxides of nitrogen (NO and NO_2 expressed as NO_2)		1 hour period		BS EN 14792		
	Carbon monoxide		1 hour period		BS EN 15058		
	Total VOCs		1 hour period		BS EN 12619:2013		
A117	Total Particulate Matter	10 mg/m^3	1 hour period		BS EN 14792		
			1 hour period		BS EN 15058		
			1 hour period		BS EN 12619:2013		
A118	Total Particulate Matter	10 mg/m^3	1 hour period		BS EN 14792		
			1 hour period		BS EN 15058		
			1 hour period		BS EN 12619:2013		
A119	Oxides of nitrogen (NO and NO_2 expressed as NO_2)	-	1 hour period		BS EN 14792		
	Carbon monoxide	-	1 hour period		BS EN 15058		
	Total Particulate Matter	10 mg/m^3	1 hour period		BS EN 12619:2013		
	VOC	50 mg/m^3	1 hour period				

[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/YP3103BN**	**Operator:**	**Kawneer UK Ltd**
Facility:	**Astmoor Road**	**Form Number:**	**Water1 / DD/MM/YY**

Reporting of emissions to water (other than to sewer) and land 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]
W1	Volume	240m^3/day[1]					
	Total suspended solids measured after drying at 105˚C)	30 mg/l	24-hour flow proportional composite sample		BS EN 872		
	Temperature	25˚C	Instantaneous		Calibrated Probe		
	pH	6-9	Continuous		BS6068-2.50		
	BOD	30 mg/l	Periodic		BS EN 1899-1 (1998)		
W2	Uncontaminated water from part of the site's surface water drainage system	Visible oil and grease	Spot sample		Visual inspection		

*Note 1: Limit subject to confirmation in writing by the Environment Agency following the completion of Improvement Condition 2

Signed …… Date……..

(Authorised to sign as representative of Operator)

Permit Number: EPR/YP3103BN **Operator: Kawneer UK Limited**

Facility: Astmoor Road **Form Number: Water Usage**

Reporting of Water Usage for the year

Water Source	**Usage (m^3/year)**	**Specific Usage (m3/unit output)**
Mains water		
Other (e.g. Site Borehole)		
TOTAL WATER USAGE		

Operator's comments:

Signed …….. Date……..

(authorised to sign as representative of Operator)

Permit Number: **EPR/YP3103BN** **Operator:** **Kawneer UK Limited**

Facility: **Astmoor Road** **Form Number:** **Energy1**

Reporting of Energy Usage for the year

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

* Conversion factor for delivered electricity to primary energy = 2.4

Operator's comments:

Signed …… Date……..

(Authorised to sign as representative of Operator)

Permit Number: **EPR/YP3103BN** **Operator:** **Kawneer UK Limited**

Facility: **Astmoor Road** **Form Number:** **Performance1**

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

Parameter	**Units**
Total raw material used	tonnes
Paint consumed	tonnes
Solvent Used	tonnes

Operator's comments:

Signed …… Date……..

(Authorised to sign as representative of Operator)

Permit Number: EPR/YP3103BN **Operator: Kawneer UK Limited**

Facility: Astmoor Road **Form Number: Waste 1**

Reporting of waste disposal or recovery for the year period DD/MM/YYYY to DD/MM/YYYY

Waste Description	Route	Disposal Tonnes	Recovery Tonnes
1) Hazardous Waste			
2) Non-Hazardous Waste			
Total Waste			

Trends in Waste			
Year	Total Hazardous	Total Non-hazardous	Waste per tonne product

Operator's comments:

Signed …… Date……..

(Authorised to sign as representative of Operator)