



**Cyfoeth
Naturiol**
Cymru
**Natural
Resources**
Wales

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

The Royal Mint Limited

**The Royal Mint
Llantrisant
Pontyclun
CF72 8YT**

Permit number

EPR/KP3135KV

The Royal Mint

Permit number EPR/KP3135KV

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

The Royal Mint is a production facility which design and produces coins for the United Kingdom and over 100 countries overseas. The site is located in an industrial estate in Llantrisant, Pontyclun, Rhondda Cynon Taf. The site was first operational in 1968 and was permitted as a installation under IPPC in 2005 (EPR/VP3539SL).

The site comprises of several lines used for the manufacturing of coins including a zinc plating line, copper plating line, nickel plating line and a brass plating line. The site also includes pilot plating lines.

The directly associated activities include heat treatment of dies and annealing ovens. The site is subject to the Control of Major Accident and Hazards regulations.

All process effluent is treated at the site's effluent treatment facility prior to discharge to sewer under a trade effluent consent. Cyanide containing solution is treated at the cyanide treatment plant prior to further treatment at the effluent treatment process. The only discharge to surface water is uncontaminated surface run off and the discharge of non-contact (uncontaminated) cooling water.

A combined heat and power (CHP) plant is located at the north-western edge of the site. The CHP subject to the medium combustion plant directive and is permitted separately as a directly associated activity permit (DAA) under permit number EPR/CB3595HE. The CHP produces and supplies steam and power to the main installation.

The site also receives, stores and treats waste printed circuit boards.

The treatment process involves:

- De-soldering and associated scrubbing plant;
- Component / Board Separation;
- Board Shredding and Processing;
- Surface Gold Reactor and associated scrubbing plant; and
- Granulation and Separation.

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/VP3539SL	Duly made 25/10/04	
Additional information Requested	27/10/04	
Additional information received	08/11/04	
Additional information Requested	30/11/04	
Additional information received	09/12/04 & 15/12/04	
Additional information Requested	20/12/04	
Additional information Received	22/12/04 & 07/01/05	
Permit Determined	10/01/05	
Transfer Application EPR/KP3135KV/T001	Duly made 27/10/09	Full Transfer of permit EPR/VP3539SL
Transfer Issued EPR/KP3135KV/T001	18/12/09 Effective 01/01/10	
Variation Application EPR/KP3135KV/V002	Duly made 15/09/10	
Additional information Requested	18/10/10	
Additional information Received	25/10/10	
Variation Issued EPR/KP3135KV/V002	25/11/10	
Variation Application EPR/KP3135KV/V003	Duly made 31/08/11	Application to vary the permit to allow the operation of a pilot scale plating line.
Additional information Requested	04/10/11	
Additional information Received	12/10/11	Site plan showing location of emission points A30 and A31. COSHH assessment and MSDS for rare earth material
Additional information Requested	12/10/11	Arrangement for off site disposal of waste & additional clarification on the LEV system.
Additional information Received	17/10/11	Varied permit issued
Agency Variation Determined EPR/KP3135KV/V004	25/03/13	Agency variation to implement the changes introduced by IED
Variation Application PAN-016079 (EPR/KP3135KV/V005)	Duly Made 01/04/2022 2	Variation to add a new brass plating line to the site, remove the nickle plating line from the permit and extend site boundary to include the combined heat and power facility (EPR/CB3595HE)

Status log of the permit		
Description	Date	Comments
Additional information received PAN-016079 (EPR/KP3135KV/V005)	04/08/2022	Response to schedule 5 notice for Air quality report for ozone
Additional information received PAN-016079 (EPR/KP3135KV/V005)	22/09/2022	Revised air quality modelling
Additional information received PAN-016079 (EPR/KP3135KV/V005)	30/09/2022	Response to schedule 5 notice for Noise impact assessment and noise management plan
Variation Determined EPR/KP3135KV/V005	19/01/2023	Variation issued to The Royal Mint Limited
PAN-021105 variation application received	08/03/2023	Variation to add waste receipt and tretment
Additional information received	04/07/2023	Information on emissions to air and Best Available Techniques
Updated information received	10/08/2023	Updated information on emissions to air from proposed emission points
Additional information received?	20/10/2023	Updated site plan and report of emissions modelling
Variation Determined <i>EPR/KP3135KV/V006</i>	12/01/2024	Variation issued with consolidated permit

Other Part A installation permits relating to this installation		
Operator	Permit number	Date of issue
Infinite Renewable Group Limited	EPR/CB3595HE	16/06/2022

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number
EPR/KP3135KV

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/KP3135KV/V006 authorising,

The Royal Mint Limited (“the operator”)

whose registered office is

**The Royal Mint
Llantrisant
Pontyclun
CF72 8YT**

company registration number **06964873**

to operate part of an installation

**The Royal Mint
Llantrisant
Pontyclun
CF72 8YT**

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

Signed	Date
Holly Noble	12/01/2024

Authorised on behalf of Natural Resources Wales

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.

1.5 Multiple operator installations

- 1.5.1 Where the operator notifies Natural Resources Wales under condition 4.3.1 (a) or 4.3.1 (c), the operator shall also notify without delay the other operator of the installation of the same information.

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. The area shown edged in red on the site plan represents the extent of the installation covered by that of the other operator of the installation.

2.3 Operating techniques

- 2.3.1
 - (a) 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 Natural Resources Wales.
 - (b) If notified by Natural Resources Wales that the activities are giving rise to pollution, the operator shall submit to Natural Resources Wales 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 Natural Resources Wales.
- 2.3.2 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.3 Waste shall only be accepted if:
 - (a) it is of a type and quantity listed in Schedule 2 Table(s) S2.2; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.

- 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 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 Improvement programme

- 2.5.1 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 Natural Resources Wales.
- 2.5.2 Except in the case of an improvement which consists only of a submission to Natural Resources Wales, the operator shall notify Natural Resources Wales 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 Natural Resources Wales that the activities are giving rise to pollution, submit to Natural Resources Wales 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 Natural Resources Wales.
- 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 Natural Resources Wales, 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 Natural Resources Wales that the activities are giving rise to pollution outside the site due to odour, submit to Natural Resources Wales 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 Natural Resources Wales.

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 Natural Resources Wales, 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 Natural Resources Wales that the activities are giving rise to pollution outside the site due to noise and vibration, submit to Natural Resources Wales 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 Natural Resources Wales.

3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by Natural Resources Wales, 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;
 - (b) surface water or groundwater specified in table S3.2;
- 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 Natural Resources Wales.
- 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, S3.3 unless otherwise agreed in writing by Natural Resources Wales.

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 Natural Resources Wales, 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 Natural Resources Wales.

4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to Natural Resources Wales using the contact details supplied in writing by Natural Resources Wales.
- 4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to Natural Resources Wales by 31 January (or other date agreed in writing by Natural Resources Wales) 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 Natural Resources Wales, 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 Natural Resources Wales, 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 1 month of the end of each quarter, the operator shall submit to Natural Resources Wales 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 (a) In the event 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 Natural Resources Wales,
 - (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) in the event of a breach of any permit condition the operator must immediately—
- (i) inform Natural Resources Wales, and

- (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
 - (c) in the event 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), 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 Natural Resources Wales has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform Natural Resources Wales when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to Natural Resources Wales at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 Natural Resources Wales 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.

- 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) Natural Resources Wales 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 Natural Resources Wales 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

Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
AR1	S2.3A(1)(a) Surface treatment of metals Unless falling within Part A(2) of this Section, surface treating metals and plastic materials using an electrolytic or chemical process where the aggregated volume of the treatment vats is more than 30m ³	Surface treatment of metals	From receipt of raw materials to despatch of finished products and waste
AR2	S5.3 A(1)(a)(ii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment;	Printed Circuit Board Processing and recovery. R4 - Recycling / reclamation of metals and metal compounds R5 – recycling / reclamation of other inorganic materials R13 – Storage of wastes pending any of the operations numbered R1 to R12	From receipt of waste to disposal of residual waste. Wastes defined in table S2.2.
AR3	S5.4A(1)(a)(ii) Disposal of non-hazardous waste with a capacity exceeding 50 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 (ii) physico-chemical treatment;	Effluent Treatment Plant	From receipt of effluent until discharge to public sewer
Directly Associated Activity			
AR4	Drainage of surface water	Discharge of surface run off and non-contact (uncontaminated) cooling water	Uncontaminated surface run off and non-contact cooling water

Table S1.1 activities

Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
AR5	Annealing and burnishing		From receipt of raw materials to despatch of finished products and waste
AR6	Heat treatment of tool dies		From receipt of raw materials to despatch of finished products and waste

Table S1.2 Operating techniques

Description	Parts	Date Received
Permit Application Reference VP3539SL	Section 2.5.3 of 'Installation report' Section 2.10.5 'Emission Point A14' of 'Installation report'	25/10/2004
Letter dated 07/01/2005 'Response to PPC Permit Application VP3539SL'	Item 4 (cyclone bypass)	07/01/2005
Permit Variation Application Supporting Information	Section 2.2 In Process Controls Section 2.3.1 Emissions to air Table 2.3.2 Emissions to water Section 2.10.3 Monitoring and Reporting of Emissions to Sewer Section 2.10.4 Monitoring and Reporting of Emissions to Surface Water Section 2.10.6 Monitoring and Reporting of Emissions to Air	15/09/2010
Permit Variation Application EPR/KP3135KV/V003 Supporting Information	Section 4.2 In Process Controls Section 4.3 Emissions Section 5 Efficient Use of Raw Materials Section 7 Energy Efficiency Section 10.4 Monitoring and Reporting of Emissions to Surface Water Section 10.5.1 LEV Emissions Section 10.8 Closure and Decommissioning	04/08/2011
Additional Information	Trial Plating Plant - Site Position (drawing number 90400/11/00/017-3, Issue A)	12/10/2011
Additional Information	Email entitled "The Royal Mint Ltd – summary of requested information".	17/10/2011
Permit Variation Application EPR/KP3135KV/V005 Supporting information (revised version (V3) in schedule 5 response 16/09/2022)	Document entitled 'Permit Application Supporting Information – V3 KP3135KV', section 2 BAT summary, section 3.2 Direct Brass Plating Line and section 3.3 Cyanide Treatment plant	16/09/2022
Additional Information EPR/KP3135KV/V005	SMP 4.9.2 Emergency Management Plan	27/06/2022

Table S1.2 Operating techniques

Description	Parts	Date Received
Response to improvement program IP23	Noise management plan	Upon completion of improvement program IP23
Permit variation application supporting document referenced SOL_21_P049_RYM	All	10/08/2023

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IP1	<p>The Operator shall submit a methodology, including timescales, to the Agency for the implementation of alternative technical measures to control air emissions from A1 to A13 including, but not limited, to the following:</p> <ul style="list-style-type: none"> ▪ Treatment tank temperature control ▪ Treatment tank chemical concentration ▪ Treatment tank levels and freeboard depth ▪ Treatment tank agitation methods <p>Improvements and procedures shall be agreed with the Agency in writing.</p>	Completed
IP2	The Operator shall implement alternative technical measures as defined by the approved methodology proposed in response to IP1.	Completed
IP3	The operator shall assess the feasibility of installing a composite sampler at emission point W1. A written report summarising the findings shall be submitted to the Agency.	Completed
IP4	<p>The Operator shall implement operating procedures for discharges to controlled water from the COMAH area surface water containment tank. The procedures shall consider:</p> <ul style="list-style-type: none"> • Operating techniques during normal operation and emergency conditions • Calibration and maintenance of conductivity meter(s) • Training of relevant staff <p>A summary of the procedures shall be submitted to the Agency. Improvements identified shall be agreed in writing with the Agency including timescales and undertaken as agreed.</p>	Completed
IP5	The Operator shall submit a report to the Agency by the date given in this programme, demonstrating whether the conductivity probes used for continuous measurement of conductivity on the effluent discharge to water meets with the performance standards given in the MCERTS document 'Continuous Water Monitoring Equipment Part 2, v1 February 2003'. The report shall include an assessment of the probes' performance with the criteria given in the standard and where these are not met, proposals and time-scales required to achieve the standard.	Completed
IP6	<p>The Operator shall provide to the Agency a report detailing improvements to the installation effluent treatment techniques in terms of reducing emissions to sewer, in particular copper and cyanide, to levels detailed in Table 3.2 of 'Guidance for the Surface Treatment of Metals and Plastics &c.' S2.07. The report shall include a BAT justification for the techniques used and where necessary the report should also include the details for upgrading or replacement of these.</p> <p>This report shall include effluent treatment operational procedures, in particular:</p> <ul style="list-style-type: none"> ▪ In house monitoring regime to include methods and frequency of analysis of key pollutants including but not limited to copper and cyanide ▪ Chemical treatment ▪ Control of flow rate <p>The report shall provide a plan with timescales for the implementation of the improvements identified and shall be agreed by the Agency in writing.</p>	Completed

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IP7	The operator shall complete the improvements identified in the previous condition relating to emissions to sewer and associated installation effluent treatment techniques.	Completed
IP8	<p>The Operator shall submit to the Agency in writing, a programme of regular testing and inspection of all waste and chemical storage areas commencing with an initial audit to identify any necessary improvements to standards detailed in Section 2.2.5 of 'Guidance for the Surface Treatment of Metals and Plastics &c.' S2.07. The audit and programme shall include the following:</p> <ul style="list-style-type: none"> ▪ Inspection of primary, secondary and tertiary containment measures ▪ Inspection of coatings applied to secondary and tertiary containment ▪ Segregation of chemicals dependent upon reactivity ▪ Size of containment based on maximum stock levels <p>The proposed inspection regime shall be agreed with the Agency in writing and implemented throughout the installation. A summary of the audit findings shall also be submitted to the Agency for approval with improvements identified as appropriate.</p>	Completed
IP9	The operator shall undertake improvements identified in initial audit as approved by the Agency in IP8	Completed
IP10	The Operator shall undertake a feasibility study to investigate reuse of water from the installation effluent treatment plant. A summary of the report shall be submitted to the Agency. Improvements identified shall be agreed in writing with the Agency including timescales and undertaken as agreed.	Completed
IP11	The Operator shall submit a report to the Agency, demonstrating whether the PCME DT 200 used for continuous measurement of particulate matter at release point A14 meets with the performance standards given in the MCERTs document 'MCERTs Performance Standard for Continuous Emission Monitoring Systems, version 2 revision 1, April 2003'. The report shall include an assessment of the instruments' performance with the criteria given in the standard and where these are not met, proposals and a time-scale to achieve the standard.	Completed
IP12	The Operator shall implement a programme of integrity testing of all underground storage chambers and sub-surface structures. Improvements identified shall be agreed in writing with the Agency including timescales and undertaken as agreed.	Completed
IP13	The Operator shall obtain full ISO14001 certification for the operator's EMS as detailed in the application.	Completed
IP14	The operator shall submit proposals for an impact assessment procedure for air emissions to include all emissions from the MRB and surface treatment activities. The assessment procedure shall follow the horizontal guidance IPPC H1, or an equivalent appropriate assessment. The proposals shall be agreed in writing with the Agency and assessment carried out as agreed.	Completed

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IP15	<p>The Operator shall identify and investigate minimisation, reuse or recycling of raw materials including, but not limited to, the following:</p> <ul style="list-style-type: none"> • Pickling acid • Copper and Nickel from plating process <p>A summary of the report shall be submitted to the Agency. Improvements identified shall be agreed in writing with the Agency including timescales and undertaken as agreed.</p>	Completed
IP16	<p>The Operator shall undertake a feasibility study to reduce emissions to water at W1 of free cyanide and free chlorine. The study shall be submitted to the Agency to include a monitoring programme and propose improvements to operating techniques to enable levels of the above parameters to fall to within proven environmentally acceptable limits. Improvements identified shall be agreed in writing with the Agency including timescales and undertaken as agreed.</p>	Completed
IP17	<p>The Operator shall provide a report in writing to the Agency detailing the monitoring method used to determine effluent flow at release point W1 and S1. The monitoring method shall be agreed in writing with the Agency.</p>	Completed
IP18	<p>The Operator shall assess the current method for effluent flow as agreed in IP17 with the requirements given in the MCERTS standard 'Minimum requirements for the self-monitoring of effluent flow' version 2, Aug 2004. A written report shall be provided to the Agency detailing how this standard is to be achieved and shall include time scales for implementation.</p>	Completed
IP19	<p>Submit a written commissioning report to the Environment Agency for approval. The report shall include a review of all measures in place to minimise emissions to the environment. Where deficiencies are identified, the report must contain dates for the implementation of individual improvements. The notification requirements of condition 2.4.2 will be deemed to have been complied with on submission of the report.</p>	Completed
IP20	<p>Submit proposals to the Environment Agency for approval to undertake monitoring, followed by an environmental assessment, of air emissions from a representative number of emissions points associated with the annealing processes and new nickel plating lines (A15 – A27 inclusive). The assessment shall be submitted to the Environment Agency having regard to the Environment Agency's Guidance Note H1 Annex F: Air Emissions. The notification requirements of condition 2.4.2 will be deemed to have been complied with on submission of the report.</p>	Completed
IP21	<p>The Operator shall submit proposals to the Environment Agency for approval to undertake monitoring, followed by an environmental assessment of air emissions from emission points A30 and A31 associated with the trial plating line. The monitoring shall be undertaken post-commissioning when the trial plating line is fully operational. The written assessment shall be submitted to the Environment Agency having regard to the Environment Agency's Guidance Note H1 Annex F: Air Emissions. The notification requirements of condition 2.4.2 will be deemed to have been complied with on submission of the report.</p>	Completed

IP22a	<p>The Operator shall undertake noise monitoring at the nearest local receptors. An addendum to the existing noise impact assessment for the site shall be submitted to Natural Resources Wales for approval. This shall:</p> <ul style="list-style-type: none"> • Meet BS4142:2014+A1:2019 standards • Reference to the Welsh Government Noise and soundscape action plan 2018-2023 <p>The Operator shall submit the revised noise impact assessment to Natural Resources Wales for approval.</p>	<p>Within 3 months after issuing of variation V005 or as otherwise agreed in writing with Natural Resources Wales</p>
IP22b	<p>Following completion of Improvement program requirement 22a, if the noise impact assessment demonstrates that the scubber units for A9 and A10 and the cyanide treatment plant are causing an exceedance of noise level limit recommendations outlined in the noise impact assessment and modelling for IP22a, the Operator shall:</p> <ul style="list-style-type: none"> • Implement suitable mitigation measures to ensure noise is not exceeding the noise limit recommendations • Complete a revised noise impact assessment following implementation of the mitigation measures to demonstrate the measures are effective <p>The Operator shall submit the revised noise impact assessment to Natural Resources Wales for approval.</p>	<p>Within 6 months after issuing of variation V005 or as otherwise agreed in writing with Natural Resources Wales</p>
IP23	<p>The Operator shall submit a noise management plan including any mitigations proposed under improvement program IP22b (if applicable). This shall be completed in line with the current relevant guidance.</p> <p>The Operator shall submit the noise management plan to Natural Resources Wales for approval.</p>	<p>Within 6 months after issuing of variation V005 or as otherwise agreed in writing with Natural Resources Wales</p>

Schedule 2 - Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels

Raw materials and fuel description	Specification
None	No limit set

Table S2.2 Permitted waste types and quantities for Printed Circuit Board Processing and recovery

Maximum quantity 4000 tonnes per annum

Waste code	Description
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 02	wastes from electrical and electronic equipment
16 02 15*	hazardous components removed from discarded equipment
16 02 16	components removed from discarded equipment other than those mentioned in 16 02 15
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 11*	other wastes (including mixtures of materials) from mechanical treatment of waste containing hazardous substances

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 [Point A1 on emission point plan in Schedule 7]	Zinc Plating ZP1	No Parameters Set	No limit set	-	-	-
A2 [Point A2 on emission point plan in schedule 7]						
A3 [Point A3 on emission point plan in schedule 7]	Copper Plating CP2					
A4 [Point A4 on emission point plan in schedule 7]						
A7 [Point A7 on emission point plan in schedule 7]	Copper Plating Line CP3					
A8 [Point A8 on emission point plan in schedule 7]						
A9 [Point A9 on emission point plan in schedule 7]	DBP1 & CTP1 (Direct Brass Plating Line and Cyanide Treatment Plant. All cyanide Tanks)	Hydrogen Cyanide	5 mg/m ³	Periodic (Daily Average)	Monthly	CEN TS 17337. US EPA OTM29
A10 [Point A10 on emission point plan in schedule 7]		Sulphur dioxide	0.6 mg/m ³	Periodic (Daily Average)	Monthly	EN 14791
		Sulphuric acid	No limit set	-	-	-

Table S3.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A15 [Point A15 on emission point plan in schedule 7]	Nickel Plating lines 4 and 5	No Parameters Set	No limit set	-	-	-
A16 [Point A16 on emission point plan in schedule 7]						
A17-A27 [Points A17-A27 on emission point plan in schedule 7]	Annealing ovens and A&P building vents					
A28 [Point A28 on emission point plan in schedule 7]	Melt Rolling Blanking mill extraction					
A29 [Point A29 on emission point plan in schedule 7]	Die heat treatment oven and tool room vents					
A30	Trial zinc, copper and nickel plating baths					
A31	Trial Cleaning station baths					
A32 [Point A32 on emission point plan in schedule 7]	De-soldering scrubbing plant	Particulate Matter	5 mg/m ³	Averaged over the sampling period (at least half an hour)	Annual	BS EN 13284-1
A32 [Point A32 on emission point plan in schedule 7]	De-soldering scrubbing plant	Hydrogen bromide	No limit set	None set	Annual	To be agreed in writing with Natural Resources Wales
A33 [Point A33 on emission point plan in schedule 7]	Surface gold scrubbing plant	Particulate Matter	5 mg/m ³	Averaged over the sampling period (at least half an hour)	Annual	BS EN 13284-1

Table S3.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A33 [Point A33 on emission point plan in schedule 7]	Surface gold scrubbing plant	Acetic acid	No limit set		Annual	
A33 [Point A33 on emission point plan in schedule 7]	Surface gold scrubbing plant	Hydrogen chloride	No limit set		Annual	
A34 [Point A34 on emission point plan in schedule 7]	Dust extraction from the board shredding operation	Particulate Matter	5 mg/m ³	Averaged over the sampling period (at least half an hour)	Annual	BS EN 13284-1
A34 [Point A34 on emission point plan in schedule 7]	Dust extraction from the board shredding operation	Brominated flame retardants	No limit set	None set	Annual	To be agreed in writing with Natural Resources Wales

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	Uncontaminated non-contact cooling water and uncontaminated surface runoff	Suspended solids	50 mg/l	24 hour flow proportional sample	Monthly	BS EN 872 BS 6068-2.54:1996

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
	Uncontaminated non-contact cooling water and uncontaminated surface runoff	Temperature	30 °C	Spot sample	Monthly	As approved by Natural Resources Wales
	Uncontaminated non-contact cooling water and uncontaminated surface runoff	Free Chlorine	0.1 mg/l	Spot sample	Monthly	As approved by Natural Resources Wales
	Uncontaminated non-contact cooling water and uncontaminated surface runoff	Oil	None Visible	Instantaneous	Weekly	Visual Check
W2	Uncontaminated surface runoff from copper plating CP3 roof	No Parameter set	No Monitoring required			
W3	Uncontaminated surface runoff from roofs and COMAH area sump	Oil	None Visible	Instantaneous	Weekly	Visual Check
W5	Uncontaminated surface runoff from roofs and roadways	Oil	None Visible	Instantaneous	Weekly	Visual Check
W6	Uncontaminated surface runoff from roofs and roadways	Oil	None Visible	Instantaneous	Weekly	Visual Check
W7	Uncontaminated surface runoff from roofs and roadways	Oil	None Visible	Instantaneous	Weekly	Visual Check

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	Site effluent treatment plant	Free cyandide	0.2 mg/l	Spot sample	Monthly	BS EN ISO 14403- 1 or BS EN ISO 14403- 2
		Copper and its compounds	1.0 mg/l	Spot sample	Monthly	BS ISO 17294-2 BS6068-2.89:2003
		pH	Minmium 6 Maximum 11	Houly average	Continuous	BS ISO 10523

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	A9, A10	Every 12 months	1 January
Emissions to water Parameters as required by condition 3.5.1	W1	Every 6 months	1 January, 1 July
Emissions to sewer Parameters as required by condition 3.5.1	S1	Every 3 months	1 January, 1 April, 1 July, 1 October

Table S4.2: Annual production/treatment

Parameter	Units
Final Product tonnage (treated Coins)	tonnes

Table S4.3 Performance parameters

Parameter	Frequency of assessment	Units
Water usage	Annually	m ³ /year
Energy usage	Annually	MWh
Total raw material used	Annually	tonnes
Water abstraction from river	Annually	m ³ /year
Natural Gas usage	Annually	MWh
CO ₂ /Final product tonnage	Annually	Kg/Tonne
Total waste/final product tonnage	Annually	Tonne/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 Natural Resources Wales	19/01/2023
Water and Land	Form water 1 or other form as agreed in writing by Natural Resources Wales	19/01/2023
Sewer	Form sewer 1 or other form as agreed in writing by Natural Resources Wales	19/01/2023
Water usage	Form water usage 1 or other form as agreed in writing by Natural Resources Wales	19/01/2023
Energy usage	Form energy 1 or other form as agreed in writing by Natural Resources Wales	19/01/2023
Other performance indicators	Form performance 1 or other form as agreed in writing by Natural Resources Wales	19/01/2023

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	EPR/KP3135KV
Name of operator	
Location of Facility	
Time and date of the detection	

(a) Notification requirements for any activity that gives rise to an incident or accident which significantly affects or may significantly affect the environment

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 permit condition

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	
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) In the event 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:

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 Natural Resources Wales 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.

background concentration” means such concentration of that substance as is present in:

- for emissions to surface water, the surface water quality up-gradient of the site; or
- for emissions to sewer, the surface water quality up-gradient of the sewage treatment works discharge.

“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).

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

“emissions to land” includes emissions to groundwater.

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

“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 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

“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.

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

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

“*residue*” means the solid waste generated by the waste treatment activity and is not directly related to the type of waste treated in the plant

“*Waste code*” means the six digit code referable to a type of waste in accordance with the list of wastes established by Commission Decision 2000/532/EC as amended from time to time (the ‘List of Wastes Decision’) 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.

“*Waste Treatment BAT Conclusions*” means the BAT Conclusions for the Waste Treatment sector published as a Commission Implementing Decision EU 2018/1447 in the Official Journal of the EU on 17 August 2018

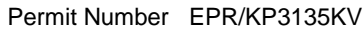
“year” means calendar year ending 31 December.

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

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

- (a) 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%
- (b) 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.

Site boundary



END OF PERMIT