

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

REAZN UK LIMITED

The Brock Metal Company
Walsall Road
Norton Canes
Cannock
Staffordshire
WS11 9NR

Variation application number

EPR/MP3936UJ/V010

Permit number

EPR/MP3936UJ

REAZN UK LIMITED

Permit number EPR/MP3936UJ

Introductory note

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

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

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

This variation is to include the addition of a hazardous waste transfer station, accepting a total capacity of <50 tonnes of hazardous and non-hazardous zinc-based waste. The waste will be accepted on site prior to sending to REAZN's parent company site in Belgium for recovery. This includes the addition of relevant waste codes.

This variation also reflects changes made to the production process; the melting capacity has been reduced from a total melting capacity of 120t to a new total melting capacity of 64t. This was achieved by decommissioning five 6.5t capacity crucibles, the decommissioning of the 18t reservoir furnace and the decommissioning of the worswick casting track. The process now comprises of eight 7t capacity crucibles and one 5t furnace.

Brief description of the process

The main purpose of the activities of the installation is the production of zinc alloys in the form of ingots, blocks and bullets for subsequent processing within the pressure die casting, gravity casting, galvanising and plating industries.

The installation receives high grade raw materials in the form of SHG (Special High Grade) zinc and other high purity alloying elements in solid form. Typically, these are magnesium, aluminium, copper or brass however other metals or alloys containing chrome, nickel, beryllium, antimony, cerium, lanthanum, etc, may be used. The raw materials vary according to the alloy application and the mechanical properties required by the customer.

Feedstock of differing types and quantities is melted in gas fired crucibles. The alloyed melt is then transferred to a casting machine or block moulds by launders, or hand poured into ingot moulds. No fluxes are used in the production process. Dross skimmed from the surface of the molten metal is cooled under cover prior to export off-site for recovery. The crucibles are operated at temperatures of between 450°C and 650°C, and dedicated covers are used to reduce heat loss from the combustion and melting process, thus improving the energy efficiency of the operation.

There are no emission points to air from the installation because the nature of the operations means that there are no emissions from the melting crucibles. This is achieved via two principal methods: (1) the use of high purity primary aluminium and other alloying elements to control emissions of dust, organic compounds and acid gases, and (2) ensuring that the temperature of the molten metal does not exceed the fume point and lead to metal emissions in the form of zinc oxides. The temperature of the molten metal is constantly monitored using thermocouples which will automatically shut down the gas burner which heats the crucible should the temperature of the melt rise above pre-set levels.

There are no discharges to sewer or to land from the Installation. There is a discharge of process wastewater consisting of cooling water from the standard size ingot casting track and site drainage to a local surface watercourse known as the Gains Brook. The production will only revert to this old casting track if the

new plant experiences issues or any other emergency situations and as such its use is expected to be negligible.

The site operates their own Environmental Management System which is not externally accredited.

The Installation is operated by REAZN UK LIMITED and is located in Norton Canes, Cannock, Staffordshire, England.

The schedules specify the changes made to the permit.

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

Status log of the permit		
Description	Date	Comments
Application received BK0019	Duly made 19/05/03	
Additional information received	30/09/03	
Permit determined BK0019	28/11/03	
Transfer application received EPR/MP3936UJ/A001	Duly made 27/06/07	
Transfer determined EPR/MP3936UJ	27/08/07	
Application EPR/MP3936UJ/V002 (variation)	Duly made 02/04/08	
Additional information received	25/04/08	
Variation determined EPR/MP3936UJ/V002	23/05/08	
Application EPR/MP3936UJ/V003 (variation)	Duly made 30/11/09	Application to remove aluminium plant and emission point 4.
Additional information received	22/02/10	Capacity of zinc processes
Additional information received	05/03/10	Request to remove emission point 5 from permit
Variation determined EPR/MP3936UJ	08/03/10	Variation notice issued to The Brock Metal Company Limited
Application EPR/MP3936UJ/V004 (variation)	13/12/10	Application to correct administrative error and remove reference to stack A4 from table 6.1.1.
Variation determined EPR/MP3936UJ	07/01/11	Variation notice issued to The Brock Metal Company Limited
Application EPR/MP3936UJ/V005 (variation)	Duly made 20/01/12	Application to make changes to the zinc alloy process.
Additional information received	13/02/12	
Variation determined EPR/MP3936UJ	23/02/12	Variation notice issued to The Brock Metal Company Limited
Environment Agency led request for variation EPR/MP3936UJ/V006	18/04/16	Amendment to activity of Melting and alloying of non-ferrous metals (zinc).
Variation determined EPR/MP3936UJ (PAS Ref: KP3930DE)	13/07/16	Varied permit issued.
Regulation 60 Notice dated	Response	Technical standards detailed in response to the

Status log of the permit		
Description	Date	Comments
16/12/16 (Notice requiring information for statutory review of permit)	Received 28/03/17	information notice. Information to demonstrate that relevant BAT Conclusions are met for the non-ferrous metals industries as detailed in document reference L174.
Application EPR/MP3936UJ/V007 (application for variation)	Duly made 25/05/17	Application for variation to reallocate existing furnace capacity, install recuperative gas burners, passive or recirculating furnace covers, and rotary casting equipment
Additional information received EPR/MP3936UJ/V007	06/11/17	Clarification regarding proposed reallocation of the melting capacity of the zinc alloy production process
Variation determined EPR/MP3936UJ/V007 PAS/Billing reference: SP3631YV	16/11/17	Varied permit issued
Additional information received EPR/MP3936UJ/V008	09/01/18	Document entitled "Brock Metal - Furnace Temperature Control - 9Jan18"
Environment Agency initiated variation EPR/MP3936UJ/V008 (variation and consolidation) Variation determined EPR/MP3936UJ/V008 (PAS / Billing Ref: NP3335JJ)	05/03/18	Statutory review of permit – Non-ferrous metals BAT Conclusions published 30/06/16 Varied and consolidated permit issued
Application EPR/MP3936UJ/V010 (variation and consolidation)	Duly made 26/06/19	Application to vary the melting capacity.
Additional information received	21/08/19	Amendment to the operation of the 18t furnace
Permit determined EPR/MP3936UJ (PAS Billing ref. NP3100PF)	11/10/19	Permit issued to The Brock Metal Company Limited.
Variation application EPR/MP3936UJ/V010 received	04/09/2023	Variation application to a add waste transfer station with a capacity of <50 tonnes of hazardous and non-hazardous waste with associated waste codes added.
Variation application EPR/MP3936UJ/V010 additional information received.	Duly Made 15/12/2023	Application Duly Made.
Variation EPR/MP3936UJ/V010 determined	08/08/2024	Variation issued.

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

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

Permit number

EPR/MP3936UJ

Issued to

REAZN UK LIMITED (“the operator”)

whose registered office is

**Walsall Road
Norton Canes
Cannock
Staffordshire
WS11 9NR**

company registration number **06164695**

to operate an installation at

**The Brock Metal Company
Walsall Road
Norton Canes
Cannock
Staffordshire
WS11 9NR**

to the extent set out in the schedules.

The notice shall take effect from 08/08/2024.

Name	Date
Vicky Patchett	08/08/2024

Authorised on behalf of the Environment Agency

Schedule 1 – conditions to be deleted

None

Schedule 2 – conditions to be amended

The following conditions are amended as a result of the application made by the operator

- Table S1.1 referenced in condition 2.1.1 amended to reflect the addition of a waste activity in a waste transfer station with a capacity of <50 tonnes.
- Table S1.2 referenced in condition 2.3.1. amended to include updated operating techniques.

Schedule 3 – conditions to be added

The following conditions are added as a result of the application made by the operator

- Condition 1.1.4 added to include compliance with an approved competence scheme.
- Condition 2.3.4 added to include the acceptance of waste by the site.
- Table 2.2 referenced in condition 2.3.4 added to include waste codes of waste accepted.
- Condition 2.3.7 added to reflect hazardous waste storage.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/MP3936UJ

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/MP3936UJ/V010 authorising,

REAZN UK LIMITED (“the operator”),

whose principal office is

**Walsall Road
Norton Canes
Cannock
Staffordshire
WS11 9NR**

company registration number 06164695

to operate an installation at

**The Brock Metal Company
Walsall Road
Norton Canes
Cannock
Staffordshire
WS11 9NR**

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

Name	Date
Vicky Patchett	08/08/2024

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
 - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.
- 1.1.4 The operator shall comply with the requirements of an approved competence scheme.

1.2 Energy efficiency

- 1.2.1 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR3). The operator shall:
- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
 - (b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
 - (c) take any further appropriate measures identified by a review.

1.3 Efficient use of raw materials

- 1.3.1 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR3). 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 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 table S2.2; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.5 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.
- 2.3.6 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.

Hazardous waste storage and treatment

- 2.3.7 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.

2.4 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 table S3.1.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
 - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.3 Odour

- 3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.
- 3.3.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
 - (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.4 Noise and vibration

- 3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.
- 3.4.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
 - (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:
- (a) point source emissions specified in table S3.1.
- 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 table S3.1 unless otherwise agreed in writing by the Environment Agency.

3.6 Fire prevention

- 3.6.1 The operator shall take all appropriate measures to prevent fires on site and minimise the risk of pollution from them including, but not limited to, those specified in any approved fire prevention plan.
- 3.6.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to a risk of fire, submit to the Environment Agency for approval within the period specified, a fire prevention plan which prevents fires and minimises the risk of pollution from fires;
 - (b) implement the fire prevention plan, from the date of approval, 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 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 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.

4.3.4 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.

4.3.5 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	Limits of specified activity
AR1	Section 2.2 A(1)(b):	Melting, including making alloys of, non-ferrous metals, including recovered products and the operation of non-ferrous metal foundries where- (i) the plant has a melting capacity of more than 4 tonnes per day for lead or cadmium or 20 tonnes per day for all other metals, and (ii) any furnace (other than a vacuum furnace), bath or other holding vessel used in the plant for the melting has a design holding capacity of 5 or more tonnes [Zinc alloy production]	From charging of melting crucibles to casting of ingots, slabs, or bullets
Directly Associated Activity			
AR2	Discharge to controlled waters	Discharge of process wastewater consisting of cooling water from standard size ingot casting track	From generation of wastewater to discharge to controlled waters. Discharge made via oil interceptor(s) to the Gains Brook at emission point W1. Does not include cooling water from rotary ingot casting equipment or jumbo block (slab) production.
AR3	Storage and handling of wastes	Handling, storing and removal of all wastes from site	From waste production by the specified activities to waste leaving the site. Except wastes from finished products packaging and storage.
Waste Operations			
Activity reference	Description of activities for waste operations		Limits of activities
AR4	Storage of hazardous and non-hazardous waste before sending off site for recovery. Hazardous and non-hazardous waste may be repackaged into suitable containers for storage and movement. R12 Exchange of waste for submission to any of the operations numbered R1 to R11 (repackaging).		Repackaging is limited to: Taking a waste package (for example a bag, jar, drum or box) out of one cart or bulk container (for example a skip) and placing it into another cart or bulk container (for example, a skip). No more than 10 tonnes of hazardous waste per day shall be repackaged.

Table S1.1 activities

	<p>R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced).</p> <p>R4: Recycling/reclamation of metals and metal compounds.</p>	<p>Wastes that are combined together during repackaging activities shall be materially the same and not change the waste's chemical composition or characteristics.</p> <p>The repackaging of wastes shall not result in:</p> <ul style="list-style-type: none">• any incompatible wastes being repackaged together in the same container• a reaction of repackaged wastes with each other• a reaction with the container in which the wastes are being placed <p>Repackaging shall take place undercover or in a building, on impermeable surfacing with sealed drainage.</p> <p>Fugitive emissions shall be minimised during repackaging.</p> <p>Repackaging of waste shall not change either the maximum storage times for waste on site or the amount that can be stored at any one time.</p> <p>Transferring, removing or separating waste from its primary packaging (for example container, bags, bins, boxes).</p> <p>From receipt and storage of hazardous and non-hazardous waste on site to its repackaging or its transfer off-site.</p> <p>The total amount of hazardous and non-hazardous waste stored on site at any one time shall not exceed 50 tonnes.</p> <p>No waste shall be treated, blended or mixed on site.</p> <p>No waste types shall be submitted to this activity other than those non-hazardous and hazardous wastes specified in Schedule 2, Table S2.2.</p>
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Table S1.2 Operating techniques		
Description	Parts	Date received
Application	The response to question B2.1 given in document 2.3 of the application.	19/05/03
Response to Schedule 4 Notice	Response to questions 9 to 11 inclusive.	30/09/03
Application for Variation	Whole application.	30/11/09
Response to request for further information dated 19/02/10	Clarification regarding site capacities.	22/02/10
Application for variation EPR/MP3936UJ/V007	<p>Application forms C2 and C3.</p> <p>Relevant supporting information, as follows:</p> <ul style="list-style-type: none"> • Doc 2 – Crucible cover design and development • Doc 3 – Worswick Investment and Design • Doc 4 – Worswick layout with furnaces • Doc 7 – Summary reasons for variation, points 4-6 regarding the installation of: <ul style="list-style-type: none"> (a) Recuperative gas burners (pt.4) (b) Passive or recirculating furnace covers (pt.5) (c) Rotary casting equipment (pt.6) 	25/05/17
Response to Regulation 60 Notice – request for further information dated 06/12/16	<p>Technical standards detailed in response to BAT Conclusions 1, 2, 3, 14, 15, 18, 19, 129 and 130 of the notice provided under Regulation 60(1) of Environmental Permitting Regulations.</p> <p>Best available techniques as described in BAT Conclusions under Directive 2010/75/EU of the European Parliament and of the Council on industrial emissions for non-ferrous metals industries</p>	Received 28/03/17
Receipt of additional information EPR/MP3936UJ/V008, requested by email dated 21/12/17	<p>Document entitled:</p> <p>“Brock Metal – Furnace Temperature Control – 9Jan18”</p>	Received 09/01/18
Application for variation EPR/MP3936UJ/V009	<p>Section 3 – ‘Operating Techniques’, Part C3 of the application.</p> <p>Sections 4 – Proposed Increase in Melting Capacity of the application document titled ‘1. Melting Capacity_v2’ provided in response to section 2, Table 1 – Changes to existing activities – ‘About your proposed changes’, Part C2 of the application.</p> <p>The application document titled ‘2. Water Discharge_v2’ provided in response to section 1, Table 1a – ‘Types of activities’ – ‘What activities are you applying to vary?’, Part C3 of the application.</p> <p>The document titled ‘4. Assessment of Risk’ provided as part of the application documents.</p>	Received 26/06/2019

Table S1.2 Operating techniques		
Description	Parts	Date received
Receipt of additional information requested by email on 16/08/19	Document entitled: 'Paragraph 2 amended'	Received 21/08/19
Additional information received by email	Details about process water consumption and use.	Received 10/10/18
Variation application EPR/MP3936UJ/V010	Application variation V010 – Doc 3 – Application Summary – 27102023 Application Variation V010 – Doc 14 – Waste spill procedure – 04092023 Application Variation V010 – Doc 13 – Waste pre-acceptance form – 04092023 Application Variation V010 – Doc 8 – Fire Info Plan 23 - 04092023	Received 04/09/2023

Table S1.3 Improvement programme requirements		
Reference	Improvement Condition	Completion date
IC1	<p>The operator shall submit, for approval by Environment Agency, a report setting out progress to achieving the 'Narrative' BAT where BAT is currently not achieved, but will be achieved before 30th June 2020. The report shall include, but not be limited to, the following:</p> <ol style="list-style-type: none"> 1) Methodology for achieving BAT 2) Associated targets / timelines for reaching compliance by 30th June 2020 3) Any alterations to the initial plan. <p>The report shall address the following BAT Conclusion: 1</p> <ul style="list-style-type: none"> • BAT 1 (to implement and adhere to an environmental management system (EMS) that incorporates all features listed under BAT 1) <p>Refer to BAT Conclusions for a full description of the BAT requirement.</p>	Completed
IC2	<p>The operator shall submit to the Environment Agency for approval a risk assessment considering the possibility of soil and groundwater contamination at the installation where the activity involves the use, production or release of a relevant hazardous substance (as defined in Article 3(18) of the Industrial Emissions Directive). The risk assessment shall clearly establish with appropriate evidence whether or not there is a risk of contamination of soil and groundwater.</p>	Completed

Table S1.3 Improvement programme requirements		
Reference	Improvement Condition	Completion date
IC3	<p>Where the risk assessment carried out under IC2 above establishes a risk to soil and groundwater the operator shall:</p> <ul style="list-style-type: none"> a) prepare and submit a baseline report compliant with Article 22 of the Industrial Emissions Directive (IED) containing information necessary to determine the current state of soil and groundwater contamination; or b) provide a summary report referring to information previously submitted where the operator is satisfied that such information represents the current state of soil and groundwater contamination, <p>so as to enable a quantified comparison to be made with the state of soil and groundwater contamination upon definitive cessation of activity.</p>	Completed

Schedule 2 – Waste types, raw materials and fuels

Raw materials and fuel description	Specification
Zinc	SHG (Special High Grade)
Alloying elements, including magnesium, aluminium, and copper	Primary grade, high purity

Maximum quantity	<50 tonnes hazardous and non-hazardous waste
Waste code	Description
10	WASTES FROM THERMAL PROCESSES
10 05	wastes from zinc thermal metallurgy
10 05 01	slags from primary and secondary production
10 05 03*	flue-gas dust
10 05 04	other particulates and dust
10 05 10*	dross and skimmings that are flammable or emit, upon contact with water, flammable gases in hazardous quantities
10 05 11	dross and skimmings other than those mentioned in 10 05 10
10 05 99	wastes not otherwise specified
10 06	wastes from copper thermal metallurgy
10 06 01	slags from primary and secondary production
10 06 02	dross and skimmings from primary and secondary production
10 06 99	wastes not otherwise specified
10 08	wastes from other non-ferrous thermal metallurgy
10 08 09	other slags
10 10	wastes from casting of non-ferrous pieces
10 10 03	furnace slag
10 10 99	wastes not otherwise specified
11	WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS, NON-FERROUS HYDRO-METALLURGY
11 05	wastes from hot galvanising processes
11 05 01	hard zinc
11 05 02	zinc ash
11 05 03*	solid wastes from gas treatment
11 05 99	wastes not otherwise specified
12	WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS
12 01	wastes from shaping and physical and mechanical surface treatment of metals and plastics
12 01 03	non-ferrous metal filings and turnings

Table S2.2 Permitted waste types and quantities for hazardous waste transfer station with a total capacity <50 tonnes, AR4

Maximum quantity	<50 tonnes hazardous and non-hazardous waste
Waste code	Description
12 01 04	non-ferrous metal dust and particles
12 01 16*	waste blasting material containing hazardous substances
12 01 17	waste blasting material other than those mentioned in 12 01 16
12 01 21	spent grinding bodies and grinding materials other than those mentioned in 12 01 20
12 01 99	wastes not otherwise specified

Schedule 3 – Emissions and monitoring

Table S3.1 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 on site plan in Schedule 7, emission via interceptor to surface water (Gains Brook)	Process wastewater consisting of cooling water from the three standard size ingot casting tracks	Volume (m ³)	No limit set	Year	When used	-
	Uncontaminated site drainage from roof and yard areas	No parameter set	No limit set	-	-	-

Note: Discharge point W1 will only be used in case of emergency shutdown of the new rotary casting equipment.

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 water Parameters as required by condition 3.5.1.	W1	Every 12 months	1 January

Table S4.2: Annual production/treatment	
Parameter	Units
-	-

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
Water usage	Annually	tonnes
Energy usage	Annually	MWh

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	01/02/18
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	01/02/18
Water discharge	Form Water1	25/08/2019

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	
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.

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

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

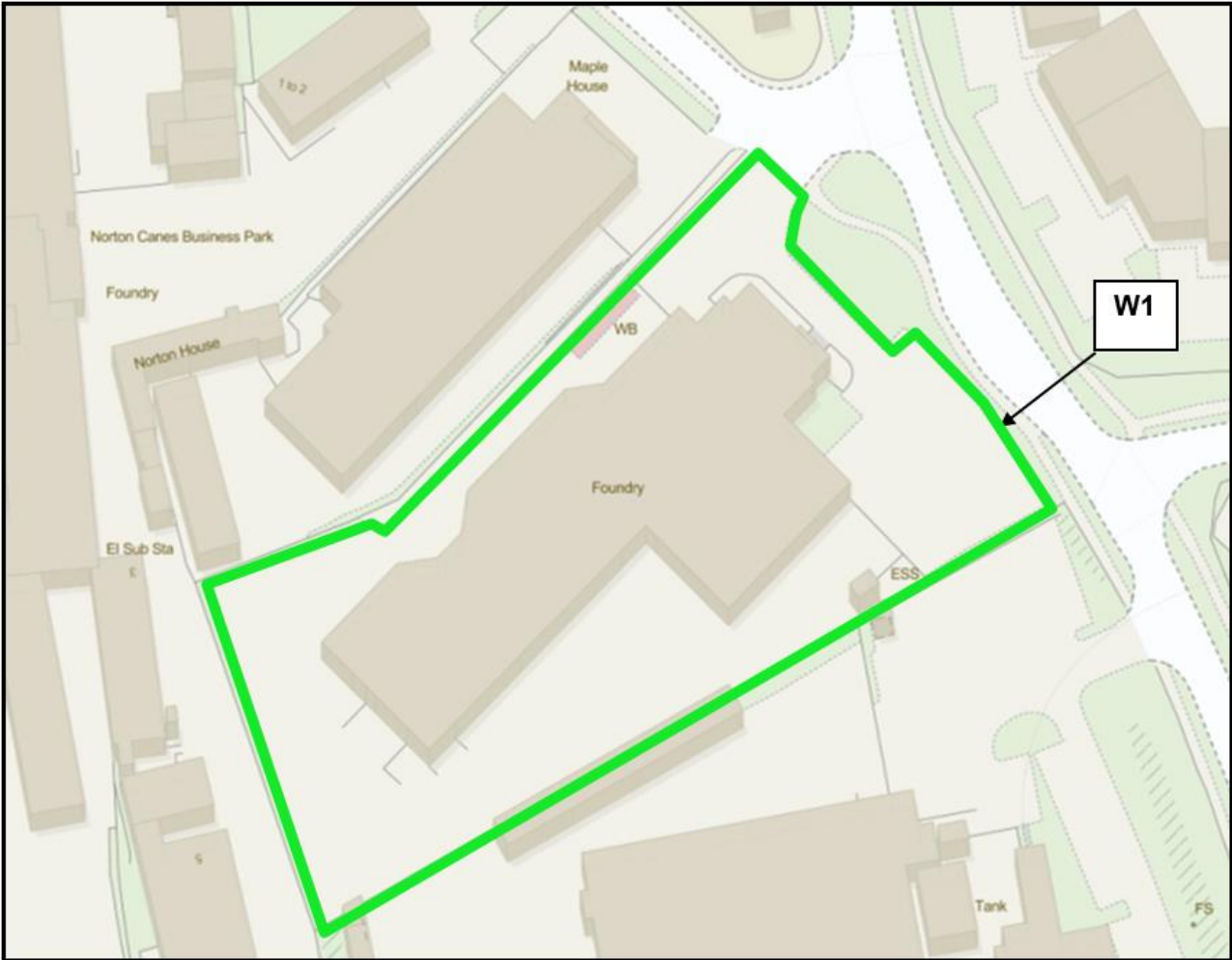
“Industrial Emissions Directive” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions

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

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.

“year” means calendar year ending 31 December.

Schedule 7 – Site plan



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END OF PERMIT