



Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

JVM Castings (Worcester) Limited

Droitwich Road

Worcester

Worcestershire

WR3 7JX

Variation application number

EPR/WP3538SS/V002

Permit number

EPR/WP3538SS

JVM Castings (Worcester) Limited

Permit number EPR/WP3538SS

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.

Changes introduced by this variation notice/statutory review

This variation has been issued to update some of the conditions following a statutory review of the permits in the industry sector for non-ferrous metals. The opportunity has also been taken to consolidate the original permit and subsequent variations.

The Industrial Emissions Directive (IED) came into force on 7th January 2014 with the requirement to implement all relevant Best Available Techniques (BAT) Conclusions as described in the Commission Implementing Decision. The BAT Conclusions (BATc) for the non-ferrous metals industries were published on 30th June 2016 in the Official Journal of the European Union (L174) following a European Union wide review of BAT, implementing decision (EU) 2016/1032 of 13th June 2016. The general BATc for the Non-Ferrous Metal sector which apply to this installation from 30th June 2020 are 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 14, 15, 16, 17, 18 and 19. The BATc for secondary aluminium production that apply to this installation are 75, 78, 79, 81, 82, 83, 84 and 85. The operator is already compliant with the BATc with the exception of 2, 10, and 16. We have set improvement conditions in the varied permit to track progress against future compliance for BAT2 and BAT10, and monitoring conditions to ensure future compliance with BAT16.

This variation also includes improvement conditions that require the operator to submit a Surface Water Risk Assessment (in line with the requirements of the Water Framework Directive) and an updated Baseline Report (in accordance with the Industrial Emissions Directive).

The schedules specify the changes made to the permit. Schedule 1 of the notice specifies the conditions that have been varied and Schedule 2 comprises a consolidated permit which reflects the variations being made. All the conditions of the permit have been varied and are subject to the right of appeal.

Brief description of the process

The installation, operated by JVM Castings (Worcester) Limited, is located in Worcester, Worcestershire, England. It undertakes a Section 2.2 A(1)(b)(ii) activity, in this case the melting of non-ferrous metals (i.e. the secondary processing of aluminium in the Non-Ferrous Metal sub-sector), with a production capacity of 14,000 tonnes per annum. There are also several Directly Associated Activities taking place at the site.

The main purpose of the activity at the installation is the production of aluminium castings from aluminium. The aluminium is melted and cast as die cast products. There are 4 main areas on the site:-

1. Raw material intake area
2. Foundry operations at Bulk Melt
3. Die casting activities at Alum Three North & South, Alum Two and Alum One, product finishing and machining activities (5 finishing tables and 2 small shot blast machines in Alum Three Central); and
4. Site support activities including offices, maintenance work shops and stores.

The aluminium is charged to the three main gas fired (Striko) furnaces in Bulk Melt in 3000kg loads and melted. There is also a BT 1300 furnace with a capacity of 450kg. Before the melted aluminium is discharged, dross is removed from the surface of the molten metal by skimming into bins. The dross is cooled before removal for aluminium recovery. The aluminium is discharged from a holding furnace and

transported to the required die casting operation. Machining and shot blasting of finished products is then undertaken in other areas of the installation, consuming lube oils, cutting oils and hydraulic fluids.

Releases to air from the Bulk Melt furnaces are collected by the extraction system and ducted into an abatement plant consisting of cyclones and bag filters prior to release to atmosphere through a single 17m stack at emission point A1. Shot blast from the finished product is also abated before emission to atmosphere via emission point A3. Releases from site drainage to surface water are via an interceptor at the rear of the site. All site surface water is drained to this point. Discharges from the cooling tower purge are released to the foul sewer. Process water from the die casting machine sumps is taken off-site for treatment.

The site is located 1.4km from Northwick Marsh SSSI and 3.5km from Lyppard Grange Special Area of Conservation.

The site operates an environmental management system externally accredited to ISO14001 and has an environmental policy in place.

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 EPR/WP3538SS	Duly made 21/08/06	Application for non-ferrous metals processing facility.
Additional information received	11/07/06 09/01/07 28/01/07 26/02/07 05/03/07	
Regulation 60 Notice dated 16/12/16 (Notice requiring information for statutory review of permit)	Response Received 30/03/17	Technical standards detailed in response to the information notice. Information to demonstrate that relevant BAT Conclusions are met for the non-ferrous metals industries as detailed in document reference L174.
Regulation 61 Notice dated 18/08/17 (Notice requiring information for statutory review of permit)	Response received 31/08/17, 14/09/17	Further information / clarification with regard BATc numbers 3, 6, 7, 8, 75, 79, 80 and 86.
EPR/WP3538SS/V002 (variation and consolidation) Variation determined EPR/WP3538SS (PAS / Billing Ref: GP3637YV)	09/01/18	Statutory review of permit – Non-ferrous metals BAT Conclusions published 30/06/16. Varied and consolidated permit issued in modern condition format.

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

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

Permit number

EPR/WP3538SS

Issued to

JVM Castings (Worcester) Limited ("the operator")

whose registered office is

**Borman
Apollo
Tamworth
Staffordshire
B79 7TA**

company registration number 05816200

to operate an installation at

**JVM Castings (Worcester) Limited
Droitwich Road
Worcester
Worcestershire
WR3 7JX**

to the extent set out in the schedules.

The notice shall take effect from 09/01/18

Name	Date
Tom Swift	09/01/18

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied by the consolidated permit as a result of an Environment Agency initiated variation.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/WP3538SS

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/WP3538SS/V002 authorising,

JVM Castings (Worcester) Limited (“the operator”),

whose registered office is

**Borman
Apollo
Tamworth
Staffordshire
B79 7TA**

company registration number 05816200

to operate an installation at

**JVM Castings (Worcester) Limited
Droitwich Road
Worcester
Worcestershire
WR3 7JX**

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

Name	Date
Tom Swift	09/01/18

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

1.1.1 The operator shall manage and operate the activities:

- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
- (b) using sufficient competent persons and resources.

1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.

1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

1.2 Energy efficiency

1.2.1 The operator shall:

- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
- (b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
- (c) take any further appropriate measures identified by a review.

1.3 Efficient use of raw materials

1.3.1 The operator shall:

- (a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
- (b) maintain records of raw materials and water used in the activities;
- (c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and
- (d) take any further appropriate measures identified by a review.

1.4 Avoidance, recovery and disposal of wastes produced by the activities

1.4.1 The operator shall take appropriate measures to ensure that:

- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
- (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
- (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.

- 1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

2 Operations

2.1 Permitted activities

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the “activities”).

2.2 The site

- 2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.

2.3 Operating techniques

- 2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.3 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.4 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.

2.4 Improvement programme

- 2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.
- 2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

3 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1a, S3.1b, S3.2a, S3.2b and S3.3.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.2 Emissions of substances not controlled by emission limits

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

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.

3.4 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.

3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:
 - (a) point source emissions specified in tables S3.1a, S3.1b, S3.2a, S3.2b and S3.3;

- 3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.
- 3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1a, S3.1b, S3.2a, S3.2b and S3.3 unless otherwise agreed in writing by the Environment Agency.

4 Information

4.1 Records

- 4.1.1 All records required to be made by this permit shall:
- (a) be legible;
 - (b) be made as soon as reasonably practicable;
 - (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
 - (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
 - (i) off-site environmental effects; and
 - (ii) matters which affect the condition of the land and groundwater.
- 4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.
- 4.2.2 For the following activities referenced in schedule 1, table S1.1, a report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:
- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
 - (b) the annual production /treatment data set out in schedule 4 table S4.2; and
 - (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.
- 4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;

- (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4; and
- (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

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

4.2.5 Within 1 month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter, if during that quarter the total amount accepted exceeds 100 tonnes of non-hazardous waste or 10 tonnes of hazardous waste.

4.3 Notifications

4.3.1 In the event:

- (a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
 - (i) inform the Environment Agency,
 - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
 - (iii) take the measures necessary to prevent further possible incidents or accidents;
- (b) of a breach of any permit condition the operator must immediately—
 - (i) inform the Environment Agency, and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
- (c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.

4.3.2 Any information provided under condition 4.3.1 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

4.3.3 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.

4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

- (a) any change in the operator's trading name, registered name or registered office address; and
- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

- (a) any change in the operator's name or address; and
 - (b) any steps taken with a view to the dissolution of the operator.
- 4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:
- (a) the Environment Agency shall be notified at least 14 days before making the change; and
 - (b) the notification shall contain a description of the proposed change in operation.
- 4.3.6 The Environment Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.
- 4.3.7 Where the operator has entered into a climate change agreement with the Government, the Environment Agency shall be notified within one month of:
- (a) a decision by the Secretary of State not to re-certify the agreement;
 - (b) a decision by either the operator or the Secretary of State to terminate the agreement; and
 - (c) any subsequent decision by the Secretary of State to re-certify such an agreement.

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 listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
Section 2.2 A(1)(b):	<p>Melting, including making alloys of non-ferrous metals, including recovered products and the operation of non-ferrous metal foundries where-</p> <p>(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</p> <p>(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.</p>	<p>From receipt of furnace charge to production of ingots or cast products.</p> <p>Waste types as specified in Table S2.2</p>
Directly Associated Activity		
Raw materials storage and handling	Receipt, handling, pretreatment and storage of aluminium ingot and scrap aluminium and all process substances.	Receipt of raw materials until used in the process.
Effluent discharge to foul sewer	Discharge of cooling water from the installation.	From cooling water circuit to discharge to external foul sewer.
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.
Off-gas collection and abatement	Collection via ducting to abatement plant and discharge via stack.	From furnace(s) to stack exit.
Water discharges to surface water drains	Discharge of site drainage water to surface water drain.	From site drains to point of entry to surface water drain.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application EPR/WP3538SS	The response to Section 2.1 and 2.2 in the Application, including the non-technical summary document A1 including but not exclusively Section 2.1.6.	17/10/05

Table S1.2 Operating techniques		
Description	Parts	Date Received
Response to request for additional information	Response to question 3 detailing raw material handling and assessment.	11/07/06
Response to request for further additional information	Response to all questions.	28/02/07
Response to Table S1.5 Appropriate measures for odour	Odour management plan	31/10/12
Response to Table S1.6 Appropriate measures for noise	Noise management plan	27/03/12
Response to Regulation 60 Notice – request for further information dated 16/12/16	Technical standards detailed in response to BAT Conclusions 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 14, 15, 16, 18, 19, 75, 78, 79, 81, 82, 83, 84 and 85 of the notice provided under Regulation 60(1) of the Environmental Permitting Regulations. 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.	30/03/17
Response to Regulation 61 Notice request for further information dated 18/08/17	Further information and/or clarification on BAT conclusions 3, 6, 7, 8, 75, 79 and 86.	31/08/17, 14/09/17
Response to email – request for further information dated 04/10/17	Confirmation of site drainage arrangements	04/10/17

Table S1.3 Improvement programme requirements		
Reference	Improvement Condition	Completion date
IC1 ^[Note 1]	<p>The operator shall submit a report to the Agency for approval, demonstrating the environmental performance of emission points to air A1 and A2 for an appropriate range of operating conditions for the parameters in Table S4.1, namely: A1; oxides of nitrogen, sulphur dioxide, carbon monoxide and volatile organic carbons and A2; total particulate, oxides of nitrogen, sulphur dioxide, hydrogen chloride, fluorides, carbon monoxide, volatile organic carbons and dioxins. The report shall include a discussion on the degree of compliance of the releases with the benchmark levels for releases to air given in Agency Guidance Note IPPC S2.03, section 3.2.1. Improvements required to ensure compliance with Benchmark values, by October 2008 including an appropriate timetable for implementation shall be included.</p> <p>The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the report.</p> <p>The measures shall be implemented by the operator from the date of approval by the Agency in writing.</p>	19 th June 2007
IC4 ^[Note 2]	The Operator shall provide the Agency with a written report describing the measures in place to ensure that emissions from the emission point to water W1 (surface water discharge) contain uncontaminated surface water only. Monitoring to illustrate the	19 th September 2007

Table S1.3 Improvement programme requirements		
Reference	Improvement Condition	Completion date
	<p>requirements of the improvement condition should be included in line with the requirements of table S4.2, namely; total hydrocarbon oil, chemical oxygen demand, suspended solids, ammonia, copper and its compounds expressed as Cu, lead and its compounds expressed as Pb, zinc and zinc compounds expressed as Zn and inorganic fluoride expressed as F.</p> <p>The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the plan.</p> <p>The plan shall be implemented by the operator from the date of approval by the Agency.</p>	
IC12	<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</p> <p>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 BATc: BATc 2 "in order to use energy efficiently, BAT is to use a combination of the techniques given...."</p> <p>Refer to BAT Conclusions for a full description of the BAT requirement.</p>	<p>Progress report within 6 months of effective date of notice V002.</p> <p>Compliance by 30th June 2020.</p>
IC13	<p>The operator shall submit a surface water pollution risk assessment to the Environment Agency for approval, which shall assess the impact of discharges of hazardous pollutants to surface water and/or sewer from the installation. The risk assessment shall include, but not be limited to the following:</p> <ol style="list-style-type: none"> a) representative emissions data for the following hazardous pollutants: silver, arsenic, cadmium, cobalt, chromium (total), chromium (VI), copper, mercury, nickel, lead, zinc; and any other relevant substances discharged from the installation. Any emissions monitoring required should be carried out using the methods and standards described in Environment Agency <u>M18</u> guidance; and b) a risk assessment in accordance with the screening procedures in Environment Agency guidance "<u>Surface water pollution risk assessment for your environmental permit</u>", using the representative emissions data obtained in (a) above. 	<p>Within 12 months of effective date of notice V002.</p>
IC14	<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>	<p>Within 3 months of effective date of notice V002</p>

Table S1.3 Improvement programme requirements		
Reference	Improvement Condition	Completion date
IC15	<p>Where the risk assessment carried out under IC14 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>	Within 12 months of effective date of notice V002
IC16	<p>The operator shall undertake a review of periodic monitoring for emissions to air of hydrogen chloride and gaseous fluorides (expressed as HF) from emission point A1. The review will be made with reference to BAT 10 of the BAT Conclusions for the Non-Ferrous Metals Industries (Commission Implementing Decision EU2016/1032) and shall justify, with appropriate evidence, the frequency of monitoring to be employed at the installation from 30 June 2020.</p> <p>The evidence required under this condition shall include analysis and interpretation of monitoring results for each substance, and performance against the relevant BAT-AEL. Consideration should be given to <i>inter alia</i> the nature of the raw materials, fluxing agents, refining chemicals used; operational stability; and process monitoring associated with operation of abatement plant. The quantity of monitoring data considered must be justified and be sufficient so as to demonstrate that the results are statistically representative of emissions during normal operations, covering the concentration range and mass emission rate of substances emitted at all stages of the process.</p> <p>A report on the above review shall be submitted to the Environment Agency to facilitate agreement in writing of the appropriate monitoring provision at the installation.</p>	Within 6 months of effective date of notice V002
<p>Note [1] - This improvement condition was taken from permit EPR/WP353SS/A001 and all references in this improvement condition relate to that that permit</p> <p>Note [2] - This improvement condition was taken from permit EPR/WP353SS/A001 and all references in this improvement condition relate to that that permit</p>		

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
-	-

Table S2.2 Permitted waste types and quantity for melting, including making alloys, of non-ferrous metals.	
Waste code	Description
Maximum quantity	14,000 tonnes per annum
16	Wastes not otherwise specified in the list
16 01	end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13,14, 16 06 and 16 08)
16 01 18	non-ferrous metal
17	Construction and Demolition Wastes (including excavated soil from contaminated sites)
17 04	metals (including their alloys)
17 04 02	aluminium from construction and demolition waste
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 03	non-ferrous metals from mechanical treatment of waste
20	Municipal Wastes (Household waste and similar commercial, industrial and institutional wastes) Including separately collected fractions
20 01	Separately collected fractions (except 15 01)
20 01 40	metals from municipal waste

Schedule 3 – Emissions and monitoring

Table S3.1a Point source emissions to air – emission limits and monitoring requirements						
Effective until 29th June 2020						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 [Non-technical summary, Section 2.3.10 and App.A9]	Stack exiting abatement plant serving Bulk Melt furnaces	Total particulate	5 mg/Nm ³	Monthly average or extractive sample	Twice per year	BS EN 13284-1 and MID
A1 [Non-technical summary, Section 2.3.10 and App. A9]	Stack exiting abatement plant serving Bulk Melt furnaces	Total particulate	10 mg/Nm ³	Daily average	Continuous	Principles of BS EN 14181 ^{Note 1}
A1 [Non-technical summary, Section 2.3.10 and App. A9]	Stack exiting abatement plant serving Bulk Melt furnaces	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	To be determined upon completion of IC1 (mg/Nm ³)	Extractive sample	Once per year	BS EN 14792
A1 [Non-technical summary, Section 2.3.10 and App. A9]	Stack exiting abatement plant serving Bulk Melt furnaces	Sulphur dioxide	To be determined upon completion of IC1 (mg/Nm ³)	Extractive sample	Once per year	BS EN 14791
A1 [Non-technical summary, Section 2.3.10 and App. A9]	Stack exiting abatement plant serving Bulk Melt furnaces	Hydrogen Chloride	10mg/Nm ³	Extractive sample	Twice per year	BS EN 1911:1998 Parts 1 to 3
A1 [Non-technical summary, Section 2.3.10 and App. A9]	Stack exiting abatement plant serving Bulk Melt furnaces	Gaseous fluorides expressed as HF	1mg/Nm ³	Extractive sample	Twice per year	BS ISO 15713 and MID
A1 [Non-technical summary, Section 2.3.10 and App. A9]	Stack exiting abatement plant serving	Carbon monoxide	To be determined upon completion	Extractive sample	Once per year	ISO 12039

Table S3.1a Point source emissions to air – emission limits and monitoring requirements Effective until 29 th June 2020						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
	Bulk Melt furnaces		of IC1 (mg/Nm ³)			
A1 [Non-technical summary, Section 2.3.10 and App. A9]	Stack exiting abatement plant serving Bulk Melt furnaces	Volatile organic carbons (VOCs)[as Carbon]	50mg/Nm ³	Extractive sample	Once per year	BS EN 12619
A1 [Non-technical summary, Section 2.3.10 and App. A9]	Stack exiting abatement plant serving Bulk Melt furnaces	Dioxins	0.1ng/Nm ³ ITEQ	Extractive sample	Twice per year	BS EN 1948:1997 Parts 1,2 and 3 and MID
A3 [Non-technical summary, Section 2.3.10 and App. A9]	Ducting exit from finished product area	Total particulates	No limit	-	-	-
Note 1 - Continuous Emission Monitoring systems shall be quality assured using the following general principles in BS EN 14181: functionality testing with full linearity, and verification with parallel tests using a standard reference method.						

Table S3.1b Point source emissions to air – emission limits and monitoring requirements. Effective from 30 th June 2020						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period ^{Note 2}	Monitoring frequency ^{Note 2}	Monitoring standard or method ^{Note 2}
A1 [Non-technical summary, Section 2.3.10 and App.A9]	Stack exiting abatement plant serving Bulk Melt furnaces	Particulate matter	5 mg/Nm ³	Daily average	Continuous	Principles of BS EN 14181 ^{Note 1}
A1 [Non-technical summary, Section 2.3.10 and App. A9]	Stack exiting abatement plant serving Bulk Melt furnaces	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	To be determined upon completion of IC1 (mg/Nm ³)	Average over the sampling period	Once per year	BS EN 14792

A1 [Non-technical summary, Section 2.3.10 and App. A9]	Stack exiting abatement plant serving Bulk Melt furnaces	Sulphur dioxide	To be determined upon completion of IC1 (mg/Nm ³)	Average over the sampling period.	Once per year	BS EN 14791
A1 [Non-technical summary, Section 2.3.10 and App. A9]	Stack exiting abatement plant serving Bulk Melt furnaces	Hydrogen Chloride	10 mg/Nm ³	Daily average	Twice per year	BS EN 1911
A1 [Non-technical summary, Section 2.3.10 and App. A9]	Stack exiting abatement plant serving Bulk Melt furnaces	Gaseous fluorides expressed as HF	1mg/Nm ³	Average over the sampling period	Twice per year	BS ISO 15713 and MID
A1 [Non-technical summary, Section 2.3.10 and App. A9]	Stack exiting abatement plant serving Bulk Melt furnaces	Carbon monoxide	To be determined upon completion of IC1 (mg/Nm ³)	Average over the sampling period	Once per year	ISO 12039
A1 [Non-technical summary, Section 2.3.10 and App. A9]	Stack exiting abatement plant serving Bulk Melt furnaces	TVOC [as C]	30mg/Nm ³	Average over the sampling period	Once per year	BS EN 12619
A1 [Non-technical summary, Section 2.3.10 and App. A9]	Stack exiting abatement plant serving Bulk Melt furnaces	Dioxins and furans (PCDD/F)	0.1ng I-TEQ/Nm ³	Average over a sampling period of at least 6 hours	Once per year	BS EN 1948 parts 1, 2 and 3 and MID
A3 [Non-technical summary, Section 2.3.10 and App. A9]	Ducting exit from finished product area	Particulate matter	No limit set	-	-	-
<p>Note 1 - Continuous Emission Monitoring systems shall be quality assured using the following general principles in BS EN 14181: functionality testing with full linearity, and verification with parallel tests using a standard reference method.</p> <p>Note 2 – monitoring to be undertaken with stated requirements in Table 3.1b pending completion of Improvement Condition IC 16 in Table S1.3</p>						

Table S3.2a Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements						
Effective until 29th June 2020						
Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 [on drawing no. HS002 in Appendix 10 of application files]	Surface water drainage via interceptor	Total hydrocarbon oil	To be confirmed upon completion of IC4	Any sample upon completion of IC4	Quarterly	SCA Blue Book 77 ISBN 011751 7283
W1 [on drawing no. HS002 in Appendix 10 of application files]	Surface water drainage via interceptor	Chemical oxygen demand (COD)	To be confirmed upon completion of IC4	Any sample upon completion of IC4	Quarterly	BS 6068-2.34:1988 Same as ISO 6060
W1 [on drawing no. HS002 in Appendix 10 of application files]	Surface water drainage via interceptor	Suspended solids	To be confirmed upon completion of IC4	Any sample upon completion of IC4	Quarterly	BS EN 872:1996, BS 6068-2.54:1996
W1 [on drawing no. HS002 in Appendix 10 of application files]	Surface water drainage via interceptor	Ammonia	To be confirmed upon completion of IC4	Any sample upon completion of IC4	Quarterly	BS EN ISO 11732:1997
W1 [on drawing no. HS002 in Appendix 10 of application files]	Surface water drainage via interceptor	Copper and its compounds expressed as Cu	To be confirmed upon completion of IC4	Any sample upon completion of IC4	Quarterly	BS 6088-2.29:1987, ISO 8288-1986
W1 [on drawing no. HS002 in Appendix 10 of application files]	Surface water drainage via interceptor	Lead and lead compounds expressed as Pb	To be confirmed upon completion of IC4	Any sample upon completion of IC4	Quarterly	BS 6088-2.29:1987, ISO 8288-1986
W1 [on drawing no. HS002 in Appendix 10 of application files]	Surface water drainage via interceptor	Zinc and zinc compounds expressed as Zn	To be confirmed upon completion of IC4	Any sample upon completion of IC4	Quarterly	BS 6088-2.29:1987, ISO 8288-1986
W1 [on drawing no. HS002 in Appendix 10 of application files]	Surface water drainage via interceptor	Inorganic fluoride expressed as F	To be confirmed upon completion of IC4	Any sample upon completion of IC4	Quarterly	To be agreed with the Agency

Table S3.2b Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements.

Effective from 30th June 2020

Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 [on drawing no. HS002 in Appendix 10 of application files]	Surface water drainage via interceptor	Total hydrocarbon oil	To be confirmed upon completion of IC4	Any sample upon completion of IC4	Quarterly	SCA Blue Book 77 ISBN 011751 7283
W1 [on drawing no. HS002 in Appendix 10 of application files]	Surface water drainage via interceptor	Chemical oxygen demand (COD)	To be confirmed upon completion of IC4	Any sample upon completion of IC4	Quarterly	BS 6068-2.34:1988 Same as ISO 6060
W1 [on drawing no. HS002 in Appendix 10 of application files]	Surface water drainage via interceptor	Total suspended solids (TSS)	No limit set	-	Once per month	BS EN 872
W1 [on drawing no. HS002 in Appendix 10 of application files]	Surface water drainage via interceptor	Ammonia	To be confirmed upon completion of IC4	Any sample upon completion of IC4	Quarterly	BS EN ISO 11732:1997
W1 [on drawing no. HS002 in Appendix 10 of application files]	Surface water drainage via interceptor	Copper and its compounds expressed as Cu	To be confirmed upon completion of IC4	Any sample upon completion of IC4	Quarterly	BS 6088-2.29:1987, ISO 8288-1986
W1 [on drawing no. HS002 in Appendix 10 of application files]	Surface water drainage via interceptor	Lead and lead compounds expressed as Pb	To be confirmed upon completion of IC4	Any sample upon completion of IC4	Quarterly	BS 6088-2.29:1987, ISO 8288-1986
W1 [on drawing no. HS002 in Appendix 10 of application files]	Surface water drainage via interceptor	Zinc and zinc compounds expressed as Zn	To be confirmed upon completion of IC4	Any sample upon completion of IC4	Quarterly	BS 6088-2.29:1987, ISO 8288-1986
W1 [on drawing no. HS002 in Appendix 10 of application files]	Surface water drainage via interceptor	Inorganic fluoride expressed as F	To be confirmed upon completion of IC4	Any sample upon completion of IC4	Quarterly	To be agreed with the Agency

Table S3.2b Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements.

Effective from 30th June 2020

Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 [on drawing no. HS002 in Appendix 10 of application files]	Surface water drainage via interceptor	Aluminium	No limit set	-	Once per month	EN ISO 11885 EN ISO 15586 EN ISO 17294-2

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 [on drawing no. HS002 in Appendix 10 of application file]	Cooling water discharge	No parameters set	No limit set	-	-	Permanent sampling access not required

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.	A1	Every 6 months	19 th April 2007
Emissions to water Parameters as required by condition 3.5.1	W1	Every 3 months	19 th April 2007

Table S4.2: Annual production/treatment	
Parameter	Units
Production of aluminium products	tonnes

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
Water usage	Annually	tonnes
Energy usage	Annually	MWh
Energy usage per tonne of product	Annually	MWh/tonnes
Total raw material used	Annually	tonnes
Total waste removed from site, including rejected material prior to processing	Annually	tonnes

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Air	Form air 1a or other form as agreed in writing by the Environment Agency Effective until 29/06/2020	09/01/18
	Form air 1b or other form as agreed in writing by the Environment Agency Effective from 30/06/2020	
Water	Form water 1a or other form as agreed in writing by the Environment Agency Effective until 29/06/2020	09/01/18
	Form water 1b or other form as agreed in writing by the Environment Agency Effective from 30/06/2020	

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	09/01/18
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	09/01/18
Waste subject to condition 4.2.5	Waste tonnage return from the Environment Agency website or other form as agreed in writing by the Environment Agency	09/01/18
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	09/01/18

Schedule 5 – Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution	
To be notified within 24 hours of detection	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

“accident” means an accident that may result in pollution.

“application” means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

“authorised officer” means any person authorised by the Environment Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

“average over the sampling period” means the average value of three consecutive measurements of at least 30 minutes each, unless otherwise stated, as defined in the *General Considerations* section of the Non-Ferrous Metals BAT Conclusions. For batch processes, the average of a representative number of measurements taken over the total batch time or the result of a measurement carried out over the total batch time can be used.

“BAT-AELs” means BAT-associated emission levels, i.e. the emission levels associated with the best available techniques for emissions to air and/or water, as set out in the Non-Ferrous Metals BAT Conclusions.

“daily average” means the average over a period of 24 hours of valid half-hourly or hourly averages obtained by continuous measurements, as defined in the *General Considerations* section of the Non-Ferrous Metals BAT Conclusions. A half-hourly or hourly average shall be considered valid if measurements are available for a minimum of (a) 20 minutes during the half hour, or (b) 40 minutes during the hour. The number of half-hourly or hourly averages so validated shall not exceed 5 per day.

“dioxins” means polychlorinated dibenzo-p-dioxins and polychlorinated dibenzo-p-furans.

For the determination of the toxic equivalence (ITEQ) value stated as a release limit the mass concentrations of the following dioxins and furans have to be multiplied with their equivalence factors before summing.

Equivalence factor

2,3,7,8 Tetrachlordibenzodioxin (TCDD)	1
1,2,3,7,8 Pentachlordibenzodioxin (PeCDD)	0.5
1,2,3,4,7,8 Hexachlordibenzodioxin (HxCDD)	0.1
1,2,3,7,8,9 Hexachlordibenzodioxin (HxCDD)	0.1
1,2,3,6,7,8 Hexachlordibenzodioxin (HxCDD)	0.1
1,2,3,4,6,7,8 Heptachlordibenzodioxin (HpCDD)	0.01
Octachlordibenzodioxin (OCDD)	0.001
2,3,7,8 Tetrachlorodibenzofuran (TCDF)	0.1
2,3,4,7,8 Pentachlorodibenzofuran (PeCDF)	0.5
1,2,3,7,8 Pentachlorodibenzofuran (PeCDF)	0.05
1,2,3,4,7,8 Hexachlorodibenzofuran (HxCDF)	0.1
1,2,3,7,8,9 Hexachlorodibenzofuran (HxCDF)	0.1
1,2,3,6,7,8 Hexachlorodibenzofuran (HxCDF)	0.1
2,3,4,6,7,8 Hexachlorodibenzofuran (HxCDF)	0.1
1,2,3,4,6,7,8 Heptachlorodibenzofuran (HpCDF)	0.01
1,2,3,4,7,8,9 Heptachlorodibenzofuran (HpCDF)	0.01
Octachlorodibenzofuran (OCDF)	0.001

“disposal”. Means any of the operations provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“emissions 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.

“List of Wastes” means the list of wastes established by Commission Decision 2000/532/EC replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste, as amended from time to time.

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

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

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

“Waste code” means the six digit code referable to a type of waste in accordance with the List of Wastes and in relation to hazardous waste, includes the asterisk.

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

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

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

- in relation to emissions from combustion processes and not subject to BAT-AELs for air emissions, the concentration in dry air at a temperature of 273.15K, at a pressure of 101.3 kPa, and with an oxygen content of 3% dry for liquid and gaseous fuels and 6% dry for solid fuels; and/or
- in relation to emissions from non-combustion sources and not subject to BAT-AELs for air emissions, the concentration at a temperature of 273.15K and at a pressure of 101.3 kPa, with no correction for water vapour content; and/or
- in relation to emissions from non-combustion sources subject to BAT-AELs for air emissions, the concentration in dry air at a temperature of 273.15K and at a pressure of 101.3 kPa; and/or
- in relation to emissions from combustion processes subject to BAT-AELs for air emissions, the concentration in dry air at a temperature of 273.15K and at a pressure of 101.3 kPa, and with an oxygen content of 3% dry for liquid and gaseous fuels and 6% dry for solid fuels.

“year” means calendar year ending 31 December.

When the following terms appear in the waste code list in Schedule 2, table 2.2, for that table, they have the meaning given below:

“hazardous substance” means a substance classified as hazardous as a consequence of fulfilling the criteria laid down in parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008.

“heavy metal” means any compound of antimony, arsenic, cadmium, chromium (VI), copper, lead, mercury, nickel, selenium, tellurium, thallium and tin, as well as these materials in metallic form, as far as these are classified as hazardous substances.

“PCBs” means

- polychlorinated biphenyls
- polychlorinated terphenyls
- monomethyl-tetrachlorodiphenyl methane, Monomethyl-dichloro-diphenyl methane, Monomethyldibromo-diphenyl methane
- any mixture containing any of the above mentioned substances in a total of more than 0,005 %by weight.

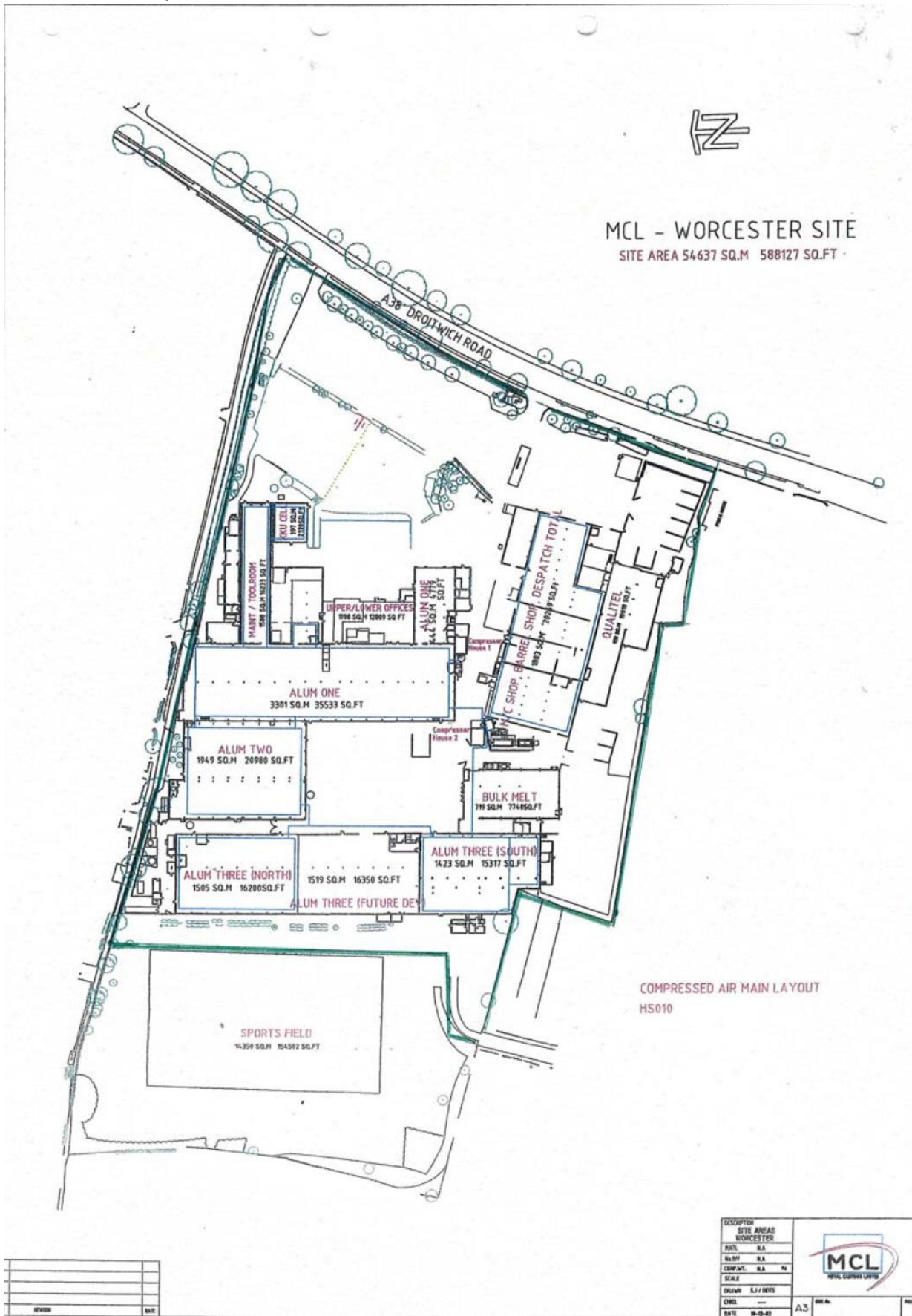
“transition metals” means any of the following metals: any compound of scandium, vanadium, manganese, cobalt, copper, yttrium, niobium, hafnium, tungsten, titanium, chromium, iron, nickel, zinc, zirconium, molybdenum and tantalum, as well as these materials in metallic form, as far as these are classified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

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

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

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

Schedule 7 – Site plan



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END OF PERMIT