

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Novelis UK Ltd
Latchford Locks Works
Thelwall Lane
Warrington
Cheshire
WA4 1NN

Variation application number

EPR/BL6802IU/V007

Permit number

EPR/BL6802IU

Latchford Locks Works

Permit number EPR/BL6802IU

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 07 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 30 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 13 June 2016. The BATc for this installation which apply from 30 June 2020 are 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 18, 19, 74, 75, 77, 78, 79, 80, 81, 82, 83, 84, 85 and 86. The operator is already compliant with the BATc with the exception of 10 and 84. We have set an improvement condition in the varied permit to track progress against future compliance.

This variation includes an improvement condition that requires the operator to submit a Surface Water Risk Assessment (in line with the requirements of the Water Framework 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

Latchford Locks Works (the installation) is operated by Novelis UK Ltd and is located in Warrington, Cheshire, England. The Manchester Ship Canal is adjacent to the site on the southern boundary. There is a housing estate adjacent to the western boundary of the site. Woolston Eyes Site of Special Scientific Interest is located adjacent to the north eastern boundary of the site. Other habitats sites within 10km of the installation are: Manchester Mosses Special Area of Conservation (SAC), approximately 4,900 metres north east of the site and Rixton Clay Pits SAC approximately 4,200 metres north east of the site.

The installation falls into the Secondary Aluminium sub-sector, within the Non-Ferrous Metals Sector.

The following Schedule 1 activities are undertaken at the installation:

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

and

Section 2.2 B (b) - heating in a furnace or any other appliance any non-ferrous metal or non-ferrous metal alloy for the purpose of removing grease, oil or any other non-metallic contaminant, including such operations as the removal by heat of plastic or rubber covering from scrap cable, if not related to another activity described in this Part of this Section, unless –

- (i) it involves the use of one or more furnaces or other appliances the primary combustion chambers of which have in aggregate a net rated thermal input of less than 0.2 megawatts, and
- (ii) it does not involve the removal by heat of plastic or rubber covering from scrap cable or of any asbestos contaminant.

The main purpose of the process is to recover aluminium suitable for re-use from scrap materials. The installation consists of two plants:

- general products plant (GPP) and
- used beverage can plant (UBC).

Both plants are capable of producing aluminium ingots to a range of alloy specifications from a variety of scrap types.

In total there are seven gas-fired melting furnaces, three gas-fired holding furnaces, a gas-fired de-coater and two gas-fired sow drying ovens.

Feedstock materials may be pre-treated, prior to melting, by:

- shredding
- materials separation
- decoating

Airborne releases from the melting, holding and de-coating operations are abated by extraction through lime- or sodium bicarbonate- injected bag filter plants, before being released to atmosphere. Bag filter plants serve the UBC shredding systems and the materials separation, dross tipping and ingot sawing areas. All releases from the process are routinely monitored.

A urea injection system is installed on the decoater thermal oxidiser in order to reduce the emission of oxides of nitrogen from the decoater stack.

The only process waste water is casting cooling water, which is reused in the process, after passing through a cooling tower. When conductivity levels become too concentrated small amounts are purged to foul sewer under trade effluent consent and fresh mains water used to top up the system. Rainwater from building roofs and yard areas is discharged to Morris Brook via a series of interceptors. Both discharge routes are routinely monitored.

Wastes from the process include dross, slag and fines from materials separation processes which are all sent off-site for recovery. Bag filter dust is sent off-site for disposal.

The operator has developed and implemented a noise management plan for the site.

The process includes a number of techniques designed to use energy efficiently and the operator reports on the annual energy consumption at the site. Energy efficiency is considered within the operator's Environmental Management System, which is certified to ISO 14001.

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 BL6802 (EPR/BL6802IU/A001)	14/12/2001	Received.
Response to request for information	Request dated 08/07/2002	Response dated 30/08/2002.
Response to request for information	Request dated 19/09/2002	Response received 14/11/2002.
Permit BL6802 (EPR/BL6802IU)	28/02/2003	Determined.
Variation Notice JP3233BM (EPR/BL6802IU/V002)	Effective 16/12/2004	Changes to De-coater exhaust gas extraction system. First variation for Alcan Aluminium UK Limited.
Endorsement to Permit WP3035SH (EPR/BL6802IU/T001)	Effective 21/01/2005	Transfer of Permit from Alcan Aluminium UK Limited to Novelis UK Limited. Permit did not receive a new number.
Variation Notice WP3730LG (EPR/BL6802IU/V002)	Effective 23/12/2005	Installation of new bag-house on UBC plant. First variation for Novelis UK Limited.
Variation Notice JP3532MR (EPR/BL6802IU/V003)	Effective 09/03/2007	Installation of NOx abatement to emission point A3.
Variation Application (EPR/BL6802IU/V004)	Received 02/07/2012	Upgrade UBC pre-treatment equipment.
Updated Site Plan	Received 19/07/2012	Showing emission point locations.
Variation determined EPR/BL6802IU	Effective 22/08/2012	Varied and consolidated permit.
Agency variation determined (EPR/BL6802IU/V005)	28/05/2013	Agency variation to implement the changes introduced by IED.
Agency variation determined (EPR/BL6802IU/V006) Billing Reference: AP3335YP	17/03/2017	Agency variation to add pests conditions.
Regulation 60 Notice dated 16/12/2016 (Notice requiring information for statutory review of permit)	Response Received 27/03/2017	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 18/08/2017 (Notice requiring information for statutory review of permit)	Response received 31/08/2017	Further information / clarification with regard to BATc numbers 3, 5, 6, 15, 76, 80 and 84.

Status log of the permit		
Description	Date	Comments
Environment Agency initiated variation EPR/BJ9720IP/V007 (variation and consolidation)	02/12/2017	Statutory review of permit – Non-ferrous metals BAT Conclusions published 30/06/2016.
Variation determined EPR/ BL6802IU (PAS / Billing Ref: SP3737YX)		Varied and consolidated permit 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/BL6802IU

Issued to

Novelis UK Ltd (“the operator”)

whose registered office is

Latchford Locks Works

Thelwall Lane

Warrington

Cheshire

WA4 1NN

company registration number 00279596

to operate an installation at

Latchford Locks Works

Thelwall Lane

Warrington

Cheshire

WA4 1NN

to the extent set out in the schedules.

The notice shall take effect from 06/12/2017

Name	Date
Simon Hunt	06/12/2017

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/BL6802IU

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/BL6802IU/V007 authorising,

Novelis UK Ltd ("the operator"),

whose registered office is

Latchford Locks Works

Thelwall Lane

Warrington

Cheshire

WA4 1NN

company registration number 00279596

to operate an installation at

Latchford Locks Works

Thelwall Lane

Warrington

Cheshire

WA4 1NN

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

Name	Date
Simon Hunt	06/12/2017

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 Upon failure of the urea injection system on start up or during the operation of the shred feed line, the shred feeder rate shall be restricted to 8 tonne/hour for a maximum period of 6 hours. If, after this period the urea injection system has not been reinstated the shred feed line shall be shutdown and shall only be restarted when the urea injection system is in a healthy operational state.
- 2.3.4 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.5 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 table S2.2; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.6 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
- (a) the nature of the process producing the waste;
 - (b) the composition of the waste;
 - (c) the handling requirements of the waste;
 - (d) the hazardous property associated with the waste, if applicable; and
 - (e) the waste code of the waste.
- 2.3.7 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

2.4 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 and S3.2.
- 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.

3.5 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 and S3.1b, S3.2;
- 3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by 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, S3.2 unless otherwise agreed in writing by the Environment Agency.

3.6 Pests

- 3.6.1 The activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved pests management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.
- 3.6.2 The operator shall:
- (a) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a pests management plan which identifies and minimises risks of pollution from pests;
- (b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.7 Fire prevention

- 3.7.1 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.
- 3.7.2 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 For the 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.

In any other case:

- (a) the death of any of the named operators (where the operator consists of more than one named individual);
- (b) any change in the operator's name(s) or address(es); and
- (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:

- (a) the Environment Agency shall be notified at least 14 days before making the change; and
 - (b) the notification shall contain a description of the proposed change in operation.
- 4.3.6 The Environment Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.
- 4.3.7 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 and waste types
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.	From receipt of furnace charge to transfer to finishing activities. Includes casting of ingots. Waste types as specified in Table S2.2.
Section 2.2 B(b)	Heating in a furnace or any other appliance any non-ferrous metal or non-ferrous metal alloy for the purpose of removing grease, oil or any other non-metallic contaminant, including such operations as the removal by heat of plastic or rubber covering from scrap cable, if not related to another activity described in this Part of this Section, unless- (i) it involves the use of one or more furnaces or other appliances the primary combustion chambers of which have in aggregate a net rated thermal input of less than 0.2 megawatts, and (ii) it does not involve the removal by heat of plastic or rubber covering from scrap cable or of any asbestos contaminant.	Receipt of raw material (including baled cans) to transfer to furnaces. Waste types as specified in Table S2.2.
Directly Associated Activity		
Storage and handling of raw materials.	Storage, sorting, and pre- treatment (baling or drying) of metal. Storage of all other feed stocks (e.g. lime, chlorine).	Receipt of raw materials to transfer to furnaces or decoater, or abatement plant.
Storage and handling of solid wastes.	Storage and handling of dross, slag and bag filter dust.	From separation of wastes from process to dispatch from installation.
Finishing activities.	Sawing of cast ingots to required customer specification.	From receipt of cast ingots to transfer to packaging and storage.

Table S1.1 activities		
Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity and waste types
Water discharges to foul sewer and controlled water.	Discharge of process water and site drainage from the installation.	From interceptors to point of entry to sewer or controlled waters.
Off-gas collection and abatement.	Collection via ducting to abatement plant and discharge via stacks.	From localised extraction to stack exit.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application (EPR/BL6802IU/A001)	The response to questions 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7 and 2.10 given in section B2.1, B2.2, B2.3, B3.2.1, B3.2.2, B2.4, B2.5, B2.6, B2.7 and B2.10 of the application.	14/12/2001
Response to Schedule 4 Part 1 Notice (EPR/BL6802IU/A001)	Response to questions 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 and 16.	14/11/2002
Application for Variation (EPR/BL6802IU/V002) Alcan UK Limited variation	Correspondence dated 5 August 2004 and supplementary information dated 1 November 2004 and 26 November 2004. Excluding operation above a stack volume flow rate of 28,500Nm ³ /hr in the indirect (oil cooler) cooling mode.	06/08/2004 02/11/2004 01/12/2004
Application for Variation (EPR/BL6802IU/V002) Novelis UK Limited variation	Correspondence dated 17 November 2005 and supplementary information dated 9 December 2005 and 16 December 2005.	18/11/2005 12/12/2005 19/12/2005
Application for Variation (EPR/BL6802IU/V003)	Correspondence dated 7 December 2006 and supplementary information dated 20 February 2007.	12/12/2006 22/02/2007
Application for Variation (EPR/BL6802IU/V004)	All Parts.	02/07/2012
Response to improvement condition 9.16	Noise management plan (Document Reference P15-300-NMP-V, Dated: February 2016).	23/12/2016
Response to Regulation 60 Notice – request for further information dated 16/12/2016	Technical standards detailed in response to BAT Conclusions 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 14, 15, 18, 19, 74, 75, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86 of the notice provided under Regulation 60(1) of 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.	27/03/2017
Response to Regulation 61 Notice – request for further information dated 18/08/2017	Further information and/or clarification on BAT conclusions 3, 5, 6, 15, 80 and 84.	31/08/2017
Response to email – request for further information dated 31/08/2017	Further information and/or clarification on BAT conclusion 5 (site surfacing).	31/08/2017

Table S1.2 Operating techniques		
Description	Parts	Date Received
Response to email – request for further information dated 12/09/2017	Further information and clarification on emissions relating to decoater process.	15/09/2017
	List of European Waste Catalogue (EWC) coded wastes to be accepted on site.	22/09/2017
Response to email – request for further information dated 27/09/2017	Further information on EWC coded wastes to be accepted on site.	28/09/2017

Table S1.3 Improvement programme requirements		
Reference	Improvement Condition	Completion date
IC13 (referred to as 9.13 in EPR/BL6802 IU/V004)	The operator shall submit data and calculations to demonstrate that the residence time within the decoater thermal oxidiser is greater than or equal to 2 seconds for shred feed rates about 15 tonne/hour.	2 months prior to the company wishing to operate the shred feeder at a rate greater than 15 tonne/hour.
IC17	The operator shall submit, for approval by Environment Agency, a report setting out progress to achieving the BAT conclusion AELs where BAT is currently not achieved, but will be achieved before 30 June 2020. The report shall include, but not be limited to, the following: a) Current performance against the BAT-AEL. b) Methodology for reaching the BAT-AELs. c) Associated targets / timelines for reaching compliance by 30 June 2020. d) Any alterations to the initial plan. The report shall address the following BAT Conclusions: BAT 84 (compliance with BAT-AELs for hydrogen chloride and chlorine, monitoring during chlorination). Refer to BAT Conclusions and Table S3.1b for a full description of the BAT requirements.	Unless otherwise agreed by the Environment Agency progress reports to be submitted every 6 months from the date of issue of notice V007. Compliance by 30 June 2020.
IC18	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: 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 M18 guidance; and	Within 12 months of effective date of notice V007.

Table S1.3 Improvement programme requirements		
Reference	Improvement Condition	Completion date
	b) a risk assessment in accordance with the screening procedures in Environment Agency guidance "Surface water pollution risk assessment for your environmental permit", using the representative emissions data obtained in (a) above.	
IC19	The operator shall undertake a review of periodic monitoring for emissions to air of TVOC from emission points A1, A3 and A4; Fluorides as HF from emission points A1, A3 and A4; particulate matter from emission points A2, A11 and A12. 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. 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. 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.	Within 6 months of effective date of notice V007.

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 quantities for melting, including making alloys, of non-ferrous metals.	
Waste code	Description
02	Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing
02 01	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 10	waste metal
10 08	wastes from other non-ferrous thermal metallurgy
10 08 11	dross and skimmings other than those mentioned in 10 08 10
10 08 14	anode scrap
10 10	wastes from casting of non-ferrous pieces
10 10 99	production spillages or drippings from the casting of non-ferrous metal pieces
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
12 01 04	non-ferrous metal dust and particles
15	Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified
15 01	packaging (including separately collected municipal packaging waste)
15 01 04	metallic packaging
15 01 05	composite packaging
15 01 06	mixed packaging
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
16 01 22	components not otherwise specified
16 03	off-specification batches and unused products
16 03 04	inorganic wastes other than those mentioned in 16 03 03
17	Construction and demolition wastes (including excavated soil from contaminated sites)

Table S2.2 Permitted waste types and quantities for melting, including making alloys, of non-ferrous metals.	
Waste code	Description
17 04	metals (including their alloys)
17 04 01	copper, bronze, brass
17 04 02	aluminium
17 04 07	mixed metals
17 04 11	cables other than those mentioned in 17 04 10
19 10	wastes from shredding of metal-containing wastes
19 10 02	non-ferrous waste
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 03	non-ferrous metal
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

Schedule 3 – Emissions and monitoring

Table S3.1a Point source emissions to air – emission limits and monitoring requirements. Effective until 29 June 2020						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 [Point A1 on site plan in Schedule 7]	Extraction serving the GPP furnaces, degassers and hygiene air	Particulate	10 mg/Nm ³	Daily average	Continuous	Principles of BS EN 14181 ^{Note 5}
			5 mg/Nm ³	Monthly average or extractive sample (min 4 hour) ^{Note 3}	Annual	BS EN 13284-1 and MID
		Oxides of Nitrogen (as NO ₂)	100 mg/Nm ³	Monthly average or extractive sample (min 4 hour) ^{Note 3}	Annual	BS EN 14792
		Hydrogen Chloride	20 mg/Nm ³	Daily average	Continuous	Principles of BS EN 14181 ^{Note 5}
			10 mg/Nm ³	Monthly average or extractive sample (min 4 hour) ^{Note 4}	Twice a year	BS EN 1911
		Volatile Organic Compounds (as Carbon)	50 mg/Nm ³	Monthly average or extractive sample (min 4 hour) ^{Note 3}	Annual	BS EN 12619
		Dioxins (ITEQ)	0.1 ng/m ³	Monthly average or extractive sample (min 4 hour) ^{Note 4}	Twice a year	BS EN 1948 parts 1, 2 and 3 and MID
		Chlorine	10 mg/Nm ³		Twice a year ^{Note 4}	US EPA Method 26
		Fluorides (as HF)	1 mg/Nm ³	Monthly average or extractive sample (min 4 hour) ^{Note 3}	Annual	BS ISO 15713 and MID
A2 [Point A2 on site plan in schedule 7]	Extraction serving the UBC plant shredder system and shreds conveyor (pre-decoater)	Particulate	10 mg/Nm ³	Daily average	Continuous	Principles of BS EN 14181 ^{Note 5}
			5 mg/Nm ³	Monthly average or extractive sample (min 4 hour) ^{Note 3}	Annual	BS EN 13284-1 and MID

Table S3.1a Point source emissions to air – emission limits and monitoring requirements.
Effective until 29 June 2020

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A3 [Point A3 on site plan in schedule 7]	Extraction serving the UBC plant decoater and afterburner system	Particulate	10 mg/Nm ³	Daily average	Continuous	Principles of BS EN 14181 ^{Note 5}
			5 mg/Nm ³	Monthly average or extractive sample (min 4 hour) ^{Note 3}	Annual	BS EN 13284-1 and MID
		Oxides of Nitrogen (as NO ₂)	100 ^(Note 1) mg/Nm ³	Monthly average or extractive sample (min 4 hour) ^{Note 4}	Twice a year	BS EN 14792
			(1.0g/s)			
		Hydrogen Chloride	20 mg/Nm ³	Daily average	Continuous	Principles of BS EN 14181 ^{Note 5}
			10 mg/Nm ³	Monthly average or extractive sample (min 4 hour) ^{Note 4}	Twice a year	BS EN 1911
		Volatile Organic Compounds (as Carbon)	50 mg/Nm ³	Monthly average or extractive sample (min 4 hour) ^{Note 3}	Annual	BS EN 12619
		Dioxins (ITEQ)	0.1 ng/Nm ³	Monthly average or extractive sample (min 4 hour) ^{Note 4}	Twice a year	BS EN 1948 parts 1, 2 and 3 and MID
		Chlorine	5 mg/Nm ³		Twice a year ^{Note 4}	US EPA Method 26
A4 [Point A4 on site plan in schedule 7]	Extraction serving the UBC plant furnaces, degassers,	Particulate	10 mg/Nm ³	Daily average	Continuous	Principles of BS EN 14181 ^{Note 5}
			5 mg/Nm ³	Monthly average or extractive	Annual	BS EN 13284-1 and MID

Table S3.1a Point source emissions to air – emission limits and monitoring requirements.
Effective until 29 June 2020

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
	and shreds conveyor (post decoater)			sample (min 4 hour) ^{Note 3}		
		Oxides of Nitrogen (as NO ₂)	100 mg/Nm ³	Monthly average or extractive sample (min 4 hour) ^{Note 3}	Annual	BS EN 14792
		Hydrogen Chloride	20 mg/Nm ³	Daily average	Continuous	Principles of BS EN 14181 ^{Note 5}
			10 mg/Nm ³	Monthly average or extractive sample (min 4 hour) ^{Note 4}	Twice a year	BS EN 1911
		Volatile Organic Compounds (as Carbon)	50 mg/Nm ³	Monthly average or extractive sample (min 4 hour) ^{Note 3}	Annual	BS EN 12619
		Dioxins (ITEQ)	0.1 ng/Nm ³	Monthly average or extractive sample (min 4 hour) ^{Note 4}	Twice a year	BS EN 1948 parts 1, 2 and 3 and MID
		Chlorine	5 mg/Nm ³		Twice a year ^{Note 4}	US EPA Method 26
		Fluorides (as HF)	1 mg/Nm ³	Monthly average or extractive sample (min 4 hour) ^{Note 3}	Annual	BS ISO 15713 and MID
A5 [Point A5 on site plan in schedule 7]	GPP drying oven	No parameters set	No limit set	-	-	-
A6 [Point A6 on site plan in schedule 7]	Ingot Sawing	No parameters set	No limit set	-	-	-
A7 [Point A7 on site plan in schedule 7]	Emergency chlorine scrubber	No parameters set	No limit set	-	-	-
A8 [Point A8 on site plan in schedule 7]	UBC drying oven	No parameters set	No limit set	-	-	-

Table S3.1a Point source emissions to air – emission limits and monitoring requirements. Effective until 29 June 2020						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A9 [Point A9 on site plan in schedule 7]	UBC dross tipping	No parameters set	No limit set	-	-	-
A11 [Point A3 on site plan in schedule 7]	Extraction serving UBC plant decoater inlet hood, Rotex screen, hot fines bin, cold fines bin and hot shred conveyors	Particulate	10 mg/Nm ³	Daily average	Continuous	Principles of BS EN 14181 ^{Note 5}
			5 mg/Nm ³	Monthly average or extractive sample (min 4 hour) ^{Note 3}	Annual	BS EN 13284-1 and MID
A12 [Point A3 on site plan in schedule 7]	Extraction serving the roto-shredder for the UBC pre-treatment system	Particulate	10 mg/Nm ³	Daily average	Continuous	Principles of BS EN 14181 ^{Note 5}
			5 mg/Nm ³	Monthly average or extractive sample (min 4 hour) ^{Note 3}	Annual	BS EN 13284-1 and MID

Note 1: Residence time within the Decoater Thermal Oxidiser shall be greater than or equal to 2 Seconds.

Note 2: For emission points A1, A2, A3, A4, A11 and A12 the limits in Table S3.1a are expressed at 273K, 101.3 kPa, dry basis, actual oxygen.

Note 3: Minimum interval between extractive monitoring is 10 months

Note 4: Minimum interval between extractive monitoring is 4 months

Note 5: 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 June 2020

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period Note 10	Monitoring frequency Note 10	Monitoring standard or method Note 10
A1 [Point A1 on site plan in Schedule 7]	Extraction serving the GPP furnaces, degassers and hygiene air	Particulate Matter	5 mg/Nm ³	Daily average	Continuous	Principles of BS EN 14181 ^{Note 6}
		Oxides of Nitrogen NO _x , expressed as NO ₂	100 mg/Nm ³	Monthly average or extractive sample (min 4 hour) ^{Note 8}	Once per year	BS EN 14792
		Hydrogen Chloride	10 mg/Nm ³	Daily average	Continuous	Principles of BS EN 14181 ^{Note 6}
			10 mg/Nm ³	Daily average during chlorination	Continuous	Principles of BS EN 14181 ^{Note 6}
		TVOC (as C)	30 mg/Nm ³	Average over the sampling period	Once per year	BS EN 12619
		Dioxins PCDD/F	0.1 I-TEQ ng/Nm ³	Average over a sampling period of at least six hours	Once per year	BS EN 1948 parts 1, 2 and 3 and MID
		Chlorine	1 mg/Nm ³	Average during chlorination	Once per year	US EPA Method 26
		Fluorides (as HF)	1 mg/Nm ³	Average over the sampling period	Once per year	BS ISO 15713 and MID
A2 [Point A2 on site plan in schedule 7]	Extraction serving the UBC plant shredder system and shreds conveyor (pre-decoater)	Particulate Matter	5 mg/Nm ³	Average over the sampling period	Once per year	BS EN 13284-1 and MID
A3 [Point A3 on site plan in schedule 7]	Extraction serving the UBC plant decoater and afterburner system	Particulate Matter	5 mg/Nm ³	Daily Average	Continuous	Principles of BS EN 14181 ^{Note 6}
		Oxides of Nitrogen NO _x , expressed as NO ₂	100 mg/Nm ³ (1.0 g/s) ^{Note 7}	Monthly average or extractive sample (min 4 hour) ^{Note 9}	Twice per year	BS EN 14792

Table S3.1b Point source emissions to air – emission limits and monitoring requirements.
Effective from 30 June 2020

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period Note 10	Monitoring frequency Note 10	Monitoring standard or method Note 10
		Hydrogen Chloride	10 mg/Nm ³	Daily average	Continuous	Principles of BS EN 14181 ^{Note 6}
		TVOC (as C)	30 mg/Nm ³	Average over the sampling period	Once per year	BS EN 12619
		Dioxins PCDD/F	0.1 I-TEQ ng/Nm ³	Average over a sampling period of at least six hours	Once per year	BS EN 1948 parts 1, 2 and 3 and MID
		Chlorine	1 mg/Nm ³	Average during chlorination	Once per year	US EPA Method 26
		Fluorides (as HF)	1 mg/Nm ³	Average over the sampling period	Once per year	BS ISO 15713 and MID
A4 [Point A4 on site plan in schedule 7]	Extraction serving the UBC plant furnaces, degassers, and shreds conveyor (post decoater)	Particulate Matter	5 mg/Nm ³	Daily average	Continuous	Principles of BS EN 14181 ^{Note 6}
		Oxides of Nitrogen NO _x , expressed as NO ₂	100 mg/Nm ³	Monthly average or extractive sample (min 4 hour) ^{Note 8}	Once per year	BS EN 14792
		Hydrogen Chloride	10 mg/Nm ³	Daily average	Continuous	Principles of BS EN 14181 ^{Note 6}
			10 mg/Nm ³	Daily average during chlorination	Continuous	Principles of BS EN 14181 ^{Note 6}
		TVOC (as C)	30 mg/Nm ³	Average over the sampling period	Once per year	BS EN 12619
		Dioxins PCDD/F	0.1 I-TEQ ng/Nm ³	Average over a sampling period of at least six hours	Once per year	BS EN 1948 parts 1, 2 and 3 and MID
		Chlorine	1 mg/Nm ³	Average during chlorination	Once per year	US EPA Method 26
		Fluorides (as HF)	1 mg/Nm ³	Average over the sampling period	Once per year	BS ISO 15713 and MID

Table S3.1b Point source emissions to air – emission limits and monitoring requirements. Effective from 30 June 2020						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period Note 10	Monitoring frequency Note 10	Monitoring standard or method Note 10
A5 [Point A5 on site plan in schedule 7]	GPP drying oven	No parameters set	No limit set	-	-	-
A6 [Point A6 on site plan in schedule 7]	Ingot Sawing	No parameters set	No limit set	-	-	-
A7 [Point A7 on site plan in schedule 7]	Emergency chlorine scrubber	No parameters set	No limit set	-	-	-
A8 [Point A8 on site plan in schedule 7]	UBC drying oven	No parameters set	No limit set	-	-	-
A9 [Point A9 on site plan in schedule 7]	UBC dross tipping	No parameters set	No limit set	-	-	-
A11 [Point A3 on site plan in schedule 7]	Hygiene Extraction System serving UBC plant decoater, Rotex screen, hot screen, hot fines bin, cold fines bin and hot shred conveyors	Particulate Matter	5 mg/Nm ³	Average over the sampling period	Once per year	BS EN 13284-1 and MID
A12 [Point A3 on site plan in schedule 7]	Extraction serving the roto-shredder for the UBC pre-treatment system	Particulate Matter	5 mg/Nm ³	Average over the sampling period	Once per year	BS EN 13284-1 and MID

Note 6: 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.

Note 7: Residence time within the Decoater Thermal Oxidiser shall be greater than or equal to 2 seconds.

Note 8: Minimum interval between extractive monitoring is 10 months

Note 9: Minimum interval between extractive monitoring is 4 months

Note 10: Monitoring to be undertaken in accordance with stated requirements in Table S3.1b pending completion of Improvement Condition IC19 in Table S1.3.

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements.						
Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 on site plan in schedule 7 emission to Morris Brook	Surface water	No parameters set	No limit set	-	-	-

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
W2 on site plan in schedule 7 emission to foul water public sewer	Site trade effluent	No parameters set	No limit set	-	-	-

Schedule 4 – Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

Table S4.1 Reporting of monitoring data			
Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to air Parameters as required by condition 3.5.1	As specified in: Table S3.1a (effective until 29/06/2020), or Table S3.1b (effective from 30/06/2020).	As required by: Table S3.1a (effective until 29/06/2020), or Table S3.1b (effective from 30/06/2020).	01 March

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
Air (Continuous Monitors)	Form A1 and A1/HCI or other form as agreed in writing by the Environment Agency Effective until 29/06/2020	2012
Air (Extractive Sampling)	Form A2 or other form as agreed in writing by the Environment Agency Effective until 29/06/2020	2012
Air (Continuous Monitors)	Form Air 1 or other form as agreed in writing by the Environment Agency Effective from 30/06/2020	06/12/2017
Air (Periodic Sampling)	Form Air 2 or other form as agreed in writing by the Environment Agency Effective from 30/06/2020	06/12/2017
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	06/12/2017
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	06/12/2017
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	06/12/2017

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 during chlorination” means the average value of three consecutive measurements of at least 30 minutes each, obtained during the period of chlorination (refining using gaseous chlorine), unless otherwise stated, as required under BAT 84 of the Non-Ferrous Metals BAT Conclusions. For batch processes, the average of a representative number of measurements taken during the period of chlorination or the result of a measurement carried out over the total period of chlorination can be used.

“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.

“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.

“daily average during chlorination” means the average over a period of 24 hours of valid half-hourly or hourly averages obtained by continuous measurements during the period of chlorination (refining using gaseous chlorine), as required under BAT 84 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 Hexachlordibenzofuran (HxCDF)	0.1
1,2,3,7,8,9 Hexachlordibenzofuran (HxCDF)	0.1
1,2,3,6,7,8 Hexachlordibenzofuran (HxCDF)	0.1
2,3,4,6,7,8 Hexachlordibenzofuran (HxCDF)	0.1
1,2,3,4,6,7,8 Heptachlordibenzofuran (HpCDF)	0.01
1,2,3,4,7,8,9 Heptachlordibenzofuran (HpCDF)	0.01
Octachlordibenzofuran (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.

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

“groundwater” means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

“hazardous property” has the meaning in Annex 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.

“pests” means birds, vermin and insects.

“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, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or
- in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.

“year” means calendar year ending 31 December.

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.

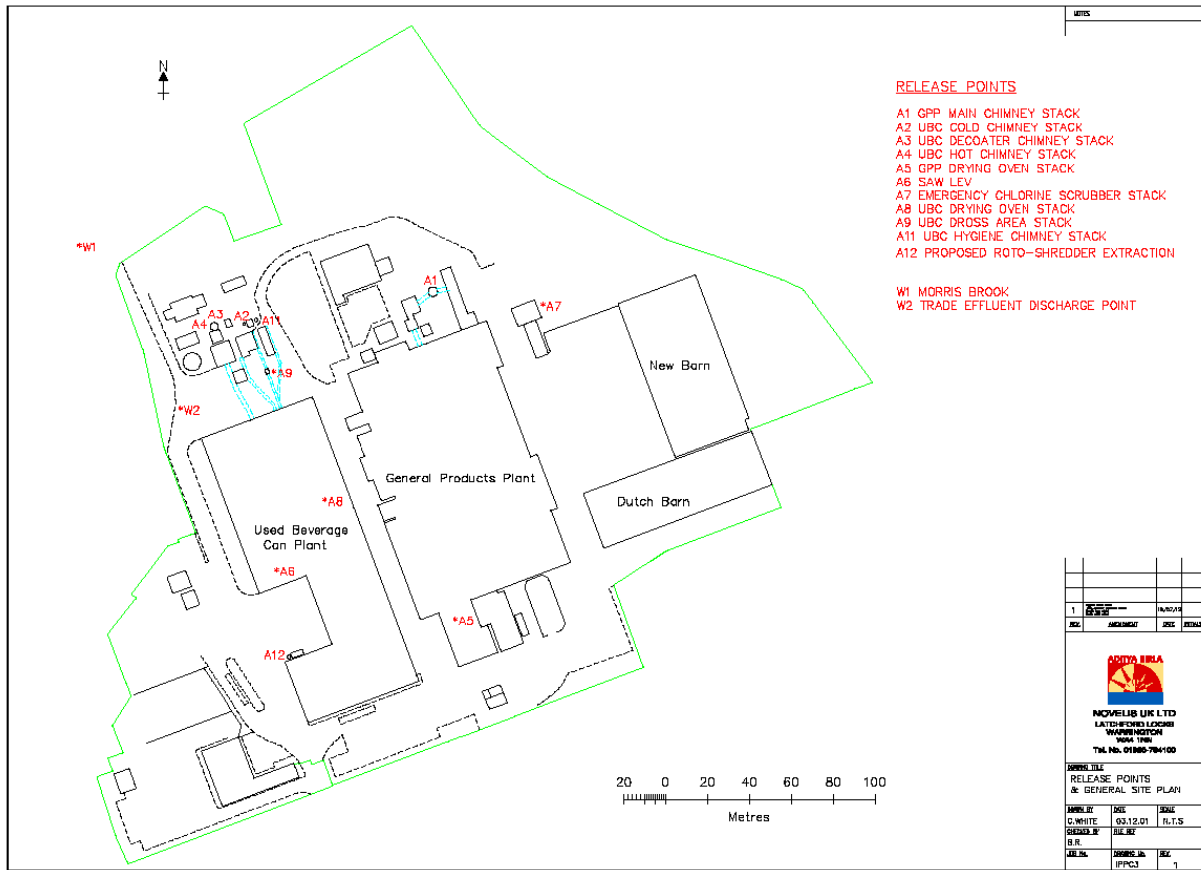
“transition metals” means any of the following metals: any compound of scandium, vanadium, manganese, cobalt, copper, yttrium, niobium, hafnium, tungsten, titanium, chromium, iron, nickel, zinc, zirconium, molybdenum and tantalum, as well as these materials in metallic form, as far as these are classified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



END OF PERMIT