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Wales

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Befesa Salt Slags Limited

Whitchurch Salt Slags
Fenns Bank
Whitchurch
Shropshire
SY13 3PA

Permit number
EPR/VP3030BX

Whitchurch Salt Slags

Permit number EPR/VP3030BX

Introductory note

This introductory note does not form a part of the permit

Befesa Salt Slags Ltd operate an installation for the primary purpose of the production of aluminium oxide. The site produces aluminium solids, ammonium sulphate, sodium, potassium chlorides and aluminium oxides recovered from aluminium salt slag and spent pot liner from the aluminium smelting industry.

The plant has a processing capacity of 270 tonnes of salt slag per day and 110 tonnes of spent pot liner per day on a 24 hours, 48 week basis. There are six point source emissions to air and no emissions to surface water, ground water, sewer or land. All parts of the process with the potential to produce dust are enclosed and connected to the LEV system and dust filtration units.

The chemical plant is served by a dedicated LEV and acid scrubbing system to minimise emissions of ammonia. The installation operates one steam raising boiler with a thermal input of 6.5MW. The installation is not connected to natural gas, instead using primarily LPG as its selected fuel with Kerosene as an optional alternative.

The site employs odour and noise suppressing techniques on site to minimise any potential impacts.

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

Status log of the permit		
Description	Date	Comments
Application VP3030BX	Duly made 05/07/05	
Response to request for information	Request dated 02/02/06	Response dated 24/02/06
Additional information received in relation to the ammonium sulphate storage lagoon	19/08/05	
Request to extend determination	Request dated 17/01/06	Request accepted 23/01/06
Request to extend determination	Request dated 26/04/06	Request accepted 27/04/06
Permit determined	28/07/06	
Variation EPR/VP3030BX/V002	Duly made 19/05/08	
Schedule 5 notice issued	23/05/08	Request accepted 23/07/08
Additional information received in relation to BAT for proposed activities	21/07/08	

Status log of the permit		
Description	Date	Comments
Additional information received in relation to environmental impact of proposed activities	26/08/08	
Additional information received in relation to ferrocyanide emissions	18/08/08	
Additional information received in relation to fluoride emissions	19/08/08	
Additional information received in relation to fluoride impacts during SPL Cut 1 processing	26/08/08	
Email received in relation to foundry sand EWC codes	09/10/08	
Email received in relation to Spent Pot Liner EWC codes	09/10/08	
Additional information received in relation to fluoride emissions and scrubber operation	13/10/08	
Request to extend determination	Request dated 22/10/08	Request accepted 27/10/08
Additional information – air quality impact assessment report by REC ref. 70988p3r0 dated 31/10/08	Received 10/11/08	
Request received to amend proposed operating conditions	14/11/08	
Request to extend determination	Request dated 10/12/08	Request accepted
Request to extend determination	Request dated 11/02/09	Request accepted
Variation issued	14/04/09	
Environment Agency variation determined EPR/VP3030BX/V003	25/03/13	Agency variation to implement the changes introduced by IED
Natural Resources Wales variation determined EPR/VP3030BX/V004	10/02/16	NRW Initiated Variation and consolidation issued.

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number

EPR/VP3030BX

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/VP3030BX/V004 authorising

Befesa Salt Slags Limited ("the operator"),

whose registered office is

Fenns Bank

Whitchurch

Shropshire

SY13 3PA

company registration number **04070154**

to operate an installation at

Whitchurch Salt Slags


Fenns Bank

Whitchurch

Shropshire

SY13 3PA

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

Name	Date
	10 February 2016

Eirian Macdonald

Authorised on behalf of Natural Resources Wales

Conditions

1 Management

1.1 General management

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

1.2 Energy efficiency

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

1.3 Efficient use of raw materials

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

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

- 1.4.1 The operator shall take appropriate measures to ensure that:
- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
 - (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and

- (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.
- 1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

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”).
- 2.1.2 Waste authorised by this permit shall be clearly distinguished from any other waste on the site.

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
 - (a) The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by Natural Resources Wales.
 - (b) If notified by Natural Resources Wales that the activities are giving rise to pollution, the operator shall submit to Natural Resources Wales for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.
- 2.3.2 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.3 Waste shall only be accepted if:
 - (a) it is of a type and quantity listed in schedule 2 tables S2.2, S2.3 and S2.4; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.4 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
 - (a) the nature of the process producing the waste;
 - (b) the composition of the waste;
 - (c) the handling requirements of the waste;
 - (d) the hazardous property associated with the waste, if applicable; and

(e) the waste code of the waste.

- 2.3.5 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

Hazardous waste storage and treatment

- 2.3.6 Hazardous waste shall not be mixed, either with a different category of hazardous waste or with other waste, substances or materials, unless it is authorised by schedule 1 table S1.1 and appropriate measures are taken.

2.4 Improvement programme

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

3 Emissions and monitoring

3.1 Emissions to water, air or land

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

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 The operator shall:
- (a) if notified by Natural Resources Wales that the activities are giving rise to pollution, submit to Natural Resources Wales for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
 - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.

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

3.3 Monitoring

- 3.3.1 The operator shall, unless otherwise agreed in writing by Natural Resources Wales, undertake the monitoring specified in the following tables in schedule 3 to this permit:
- (a) point source emissions specified in tables S3.1
- 3.3.2 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.
- 3.3.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.3.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by Natural Resources Wales.
- 3.3.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 table S3.1 unless otherwise agreed in writing by Natural Resources Wales.

3.4 Odour

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

3.5 Noise and vibration

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

- (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.

4 Information

4.1 Records

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

4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to Natural Resources Wales using the contact details supplied in writing by Natural Resources Wales.
- 4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to Natural Resources Wales by 31 January (or other date agreed in writing by Natural Resources Wales) each year. The report(s) shall include as a minimum:
 - (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
 - (b) the performance parameters set out in schedule 4 table S4.2 using the forms specified in table S4.3 of that schedule.
- 4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by Natural Resources Wales, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
 - (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
 - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.3 ; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

- 4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to Natural Resources Wales, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.
- 4.2.5 Within 1 month of the end of each quarter, the operator shall submit to Natural Resources Wales using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.

4.3 Notifications

- 4.3.1 (a) In the event that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
- (i) inform Natural Resources Wales,
 - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
 - (iii) take the measures necessary to prevent further possible incidents or accidents;
- (b) in the event of a breach of any permit condition the operator must immediately—
- (i) inform Natural Resources Wales, and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
- (c) in the event of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.
- 4.3.2 Any information provided under condition 4.3.1 (a)(i), or 4.3.1 (b)(i) 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 Natural Resources Wales has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform Natural Resources Wales when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to Natural Resources Wales at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 Natural Resources Wales shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

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

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

- (a) any change in the operator's name or address; and
- (b) any steps taken with a view to the dissolution of the operator.

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) Natural Resources Wales shall be notified at least 14 days before making the change; and
 - (b) the notification shall contain a description of the proposed change in operation.
- 4.3.6 Natural Resources Wales shall be given at least 14 days notice before implementation of any part of the site closure plan.
- 4.3.7 Where the operator has entered into a climate change agreement with the Government, Natural Resources Wales 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 reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
A1	Section 4.2 part A(1)(a)(v) – Production inorganic chemicals such as non-metals, metal oxides, metal carbonyls, or other inorganic compounds (such as calcium carbide, silicon, silicon carbide, titanium oxide).	Producing ammonium sulphate, sodium and potassium chlorides and aluminium oxides recovered from aluminium salt slag and spent pot liners from the aluminium industry. Chemical Plants 1 and 2.	<p>Chemical Plant 1: reaction and dissolution of salt slag or salt slag and spent pot liner Cut 1 and/or Cut 2, with water to produce aluminium oxide and brine.</p> <p>Chemical Plant 2: crystallisation plant – removing sodium chloride and potassium chloride from solution.</p> <p>Conditioning of product to produce oxide.</p> <p>Wastes as listed in Table S2.2.</p>
A2	Section 5.3 Part A(1) (a)(vi) – Disposal or recovery of hazardous waste in a facility with a capacity exceeding 10 tonnes per day involving recycling or reclamation of inorganic materials other than metals or metal compounds.	Recovery of Spent Pot liner Cut 1 by milling prior to shipping off site, and Spent Pot liner cut 1 and 2 by milling prior to treatment in the on-site chemical plant.	<p>Receipt of raw materials, milling.</p> <p>Hazardous waste must be stored under cover, upon an impermeable surface with a sealed drainage system.</p> <p>Wastes as listed in Table S2.3.</p>
A3	Section 5.6A(1)(a) – Temporary storage of hazardous waste with a total capacity exceeding 50 tonnes pending any of the activities listed in Sections 5.1, 5.2, 5.3 and paragraph (b) of this Section, except (i) temporary storage, pending collection, on the site where the waste is Generated (iii) Activities falling within Section 5.2.	Storage of dross, salt slag and spent pot liner prior to on-site processing	<p>Storage through to onward processing or transfer of waste from site</p> <p>Hazardous waste must be stored under cover, upon an impermeable surface with a sealed drainage system.</p> <p>Wastes as listed in Table S2.4.</p>
A4	Section 3.5 Part B(a) – The crushing, grinding or other size reduction, other than the cutting of stone, or the grading, screening or heating of any designated mineral or mineral product.	<p>Separation of aluminium from dross by milling;</p> <p>Milling of foundry sand.</p> <p>Separation of aluminium from slag by milling.</p> <p>R4: Recycling / reclamation of metals and metal compounds</p>	<p>Milling and grading of drosses to remove aluminium solids</p> <p>Milling of foundry sand.</p> <p>Milling of salt slag to produce raw material input to the chemical plant.</p> <p>Wastes as listed in Table S2.5.</p>

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
A5	Section 5.3 A(1)(a)(iv) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving the following activities— (iv) repackaging prior to submission to any of the other activities listed in this Section or in Section 5.1	Repackaging prior to submission to another S5.3 Activity	Bulking up of untreated dross prior to removal from site for processing elsewhere. Wastes as listed in Table S2.6.
A6	Section 4.3 – Producing (including any blending which is related to their production) phosphorus-, nitrogen- or potassium-based fertilisers (simple or compound fertilisers).	Manufacture of urea / ammonium sulphate fertiliser	Adding urea to ammonium sulphate prior to transport off site.
Directly Associated Activity			
A7	Boiler plant	LPG or kerosene fuelled 6.5MW thermal input	
A8	Storage of non-hazardous materials	Receipt and storage of non-hazardous wastes for processing	
A9	Storage of raw materials	Storage of raw materials in the Wardle Shed	
Description of activities for waste operations		Limits of activities	
A10	Recovery of non-hazardous SPL Cut 1 (EWC code 16 11 04) by milling prior to shipping off site	Milling of Spent Pot Liner Cut 1 -	
A11	D14 - Repackaging prior to submission to any of the operations numbered D1 to D13 D15 - Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced) R12 - Exchange of wastes for submission to any of the operations R1 to R11 R13 - Storage of wastes pending any of the operations R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced.	Bulking up of untreated dross prior to removal from site for processing elsewhere. Wastes as listed in Table S2.7.	

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	The response to questions 2.1 and 2.2 found on pages 11 to 35 of the Application	05/07/05
Additional information received in relation to the ammonium sulphate lagoon	All parts	19/08/05
Response to request for additional information	Response relation to monitoring methods in use	24/02/06
Application for Variation	Section C2	14/04/08

Table S1.2 Operating techniques

Description	Parts	Date Received
Response to Schedule 5 request issued 23/05/08	All	23/07/08
Request received to amend proposed operating conditions	All	14/11/08
Request to increase %age SPL Cut 2 in process	All - Agreed on 08/02/11	26/01/11
Request to install new decanters	All - Agreed 14/03/11	28/02/11
Request to install new belt press	All - Agreed 04/07/12	27/06/12
Response to request made during inspection to provide details of changes made to reduce fugitive emissions	All parts of e-mail received	25/08/2011

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
IC1	The Operator shall develop a written Site Closure Plan having regard to the requirements set out in Sector Guidance Note S4.03, section 2.11. Upon completion of the plan a copy of the document shall be submitted in writing to the Agency.	Complete
IC2	The Operator shall produce an Energy Efficiency Plan having regard to the requirements set out in Sector Guidance Note S4.03. Upon completion of the plan a copy of the document shall be submitted in writing to the Agency.	Complete
IC3	The Operator shall undertake detailed dispersion modelling of emissions to air from emission points A1, A2, A3, A4, A5 and A6, of particulates, ammonia and oxides of nitrogen. The Operator shall provide a report to the Agency detailing the findings of the study.	Complete
IC4	The Operator shall assess the options available for venting and abatement of ammonia emissions from the final BFA storage building, having regard to Sector Guidance Note S4.03. A summary of the assessment together with a timeline for implementation of the proposals shall be submitted to the Agency.	Complete
IC5	<p>The Operator shall review the measures in place to prevent polluting substances entering surface and groundwater throughout the installation, having regard for section 2.2.5 of Sector Guidance Note IPPC S4.03.</p> <p>The Operator shall submit in writing to the Agency a report of the survey which shall contain but not be limited to:</p> <ul style="list-style-type: none"> • a surface water management plan • an assessment of the risk to groundwater and surface water from the installation; and • a comparison of findings against indicative BAT requirements provided in Sector guidance Note S4.03; and • a timetable for implementation of the proposals identified 	Complete

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
IC6	<p>The Operator shall carry out an assessment of the techniques required to reduce the impact of ammonia and oxides of nitrogen from emission points A1, A2, A3, A4, A5 and A6 to a level at which air dispersion modelling shows that either Process Contribution (PC) is less than 10%, or the Predicted Environmental Concentration (PEC) is less than 70% of the critical load for nutrient enrichment and acid deposition at the adjacent Special Area of Conservation and Ramsar site.</p> <p>A summary of the assessment together with a timetable for implementation of the proposals shall be submitted in writing to the Agency.</p>	Complete
IC7	<p>The operator shall provide suitable bunded facilities for the storage of sodium hypochlorite solution. Confirmation that this has been completed shall be reported in writing to the Agency.</p>	Complete
IC8	<p>The Operator shall carry out a programme of monitoring from point A1 whilst milling of foundry sand is being carried out. Duplicate monitoring shall be carried out on two occasions in the 12 months following the issue of Variation Notice V002 for total VOC's, using standards agreed with the Environment Agency.</p> <p>The results of each monitoring round shall be reported to the Environment Agency upon receipt.</p>	Complete
IC9	<p>The Operator shall carry out a programme of monitoring from point A1 whilst milling of SPL Cut 1 is being carried out. Duplicate monitoring shall be carried out on two occasions in the 12 months following the issue of Variation Notice V002 for particulate and solid fluoride, using standards agreed with the Environment Agency.</p> <p>The results of each monitoring round shall be reported to the Environment Agency upon receipt.</p>	Complete
IC10	<p>The Operator shall carry out a programme of monitoring from point A1 whilst milling of SPL Cut 2 is being carried out and A2 and A5 whilst chemical processing of SPL Cut 2 is being carried out. Duplicate monitoring shall be carried out on two occasions in the 12 months following the issue of Variation Notice V002 for A1: particulate and solid fluoride, A2 and A5: hydrogen fluoride, using standards agreed with the Environment Agency.</p> <p>The results of each monitoring round shall be reported to the Environment Agency upon receipt.</p>	Complete
IC11	<p>The operator shall provide a report to the Environment Agency following commissioning of the new activities to demonstrate the effectiveness of measures put in place to control emissions, including those of odour and dust. The report shall include an assessment of the impact of emissions on the local environment and nearby SAC.</p>	Complete
IC12	<p>The operator shall carry out a review of techniques to minimise fugitive dust emissions from materials handling and processing. The review shall take account of the potential for increased risk of flooding from increased hard standing areas. A report of the findings containing a timetable for implementing any improvements identified shall be submitted to the Environment Agency.</p>	Complete
IC13	<p>The Operator shall carry out a review of the assessment carried out for IC3 for ammonia only against the new critical levels that are applicable to the nearby SAC. A report of the findings of the review shall be submitted to the Environment Agency.</p>	Complete
IC14	<p>The Operator shall provide a design and specification to the Environment Agency for the wet acid scrubber proposed to be installed for the absorption of ammonia emissions from the intermediate Befesa Fine Aggregate store (emission point A6 to air).</p>	Complete

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
IC15	Following agreement of the design and specification in IC14 with the Environment Agency, the Operator shall install the wet acid scrubber (emission point A6 to air).	Complete
IC16	The Operator shall forward a report of the commissioning of the wet acid scrubber (emission point A6 to air) to the Environment Agency.	Complete
IC17	The operator must provide details of the waste classification used in relation to Aluminium Oxide for disposal to landfill.	31/04/16
IC18	The operator must undertake a study, including a CCTV Survey to demonstrate that the onsite drainage system is fully contained. The operator must then submit a written report detailing the findings of the study, along with any improvement works, to Natural Resources Wales for approval.	31/08/16

Note: References to 'the Agency' and the 'Environment Agency' are retained in some of the above completed conditions as the improvement conditions pre-date the formation of Natural Resources Wales.

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 chemical treatment– Activity A1

Maximum quantity	up to 90,720t salt slag per year (up to 1200t per day); up to 36,000t year spent pot liner (up to 300 per day)
Waste code	Description
10 WASTES FROM THERMAL PROCESSES	
10 03	wastes from aluminium thermal metallurgy
10 03 08*	salt slags from secondary production
16 WASTES NOT OTHERWISE SPECIFIED IN THE LIST	
16 11	waste linings and refractories
16 11 01*	carbon-based linings and refractories from metallurgical processes containing dangerous substances
16 11 03*	other linings and refractories from metallurgical processes containing dangerous substances

Table S2.3 Permitted waste types and quantities for milling of spent pot liner – Activity A2

Maximum quantity	450 tonnes per day – no more than 5000 tonnes to be stored at any one time
Waste code	Description
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 11	waste linings and refractories
16 11 01*	carbon-based linings and refractories from metallurgical processes containing dangerous substances
16 11 03*	other linings and refractories from metallurgical processes containing dangerous substances
16 11 04	other linings and refractories from metallurgical processes other than those mentioned in 16 11 03

Table S2.4 Permitted waste types and quantities for Storage of hazardous waste – Activity A3

Maximum quantity	15,000t salt slag, 5000t spent pot liner, 3000t dross per day
Waste code	Description
10 WASTES FROM THERMAL PROCESSES	
10 03	wastes from aluminium thermal metallurgy
10 03 08*	salt slags from secondary production
10 03 29*	wastes from treatment of salt slags and black drosses containing dangerous substances
16 WASTES NOT OTHERWISE SPECIFIED IN THE LIST	
16 11	waste linings and refractories
16 11 01*	carbon-based linings and refractories from metallurgical processes containing dangerous substances
16 11 03*	other linings and refractories from metallurgical processes containing dangerous substances

Table S2.5 Permitted waste types and quantities for milling of foundry sand – Activity A4

Maximum quantity	250 tonnes per day
Waste code	Description
10	WASTES FROM THERMAL PROCESSES
10 09	wastes from casting of ferrous pieces
10 09 06	casting cores and moulds which have not undergone pouring other than those mentioned in 10 09 05 – Foundry Sand
10 10	wastes from casting of non-ferrous pieces
10 10 06	casting cores and moulds which have not undergone pouring, other than those mentioned in 10 10 05 – Foundry Sand
10 10 08	casting cores and moulds which have undergone pouring, other than those mentioned in 10 10 07 – Foundry Sand
10 12	wastes from manufacture of ceramic goods, bricks, tiles and construction products
10 12 06	discarded moulds – Foundry Sand

Table S2.6 Permitted waste types and quantities for Repackaging of Hazardous Dross– Activity A5

Maximum quantity	2500t dross per day
Waste code	Description
10 WASTES FROM THERMAL PROCESSES	
10 03	wastes from aluminium thermal metallurgy
10 03 29*	wastes from treatment of salt slags and black drosses containing dangerous substances

Table S2.7 Permitted waste types and quantities for Repackaging of Non Hazardous Dross – Activity A11

Maximum quantity	2000t per day
Waste code	Description
10 WASTES FROM THERMAL PROCESSES	
10 03	wastes from aluminium thermal metallurgy
10 03 30	wastes from treatment of salt slags and black drosses other than those mentioned in 10 03 29

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period ¹	Monitoring frequency	Monitoring standard or method
A1 on site plan in Schedule 7	Milling LEV Stack	Particulates	12mg/m ³	1 hour	Quarterly	BS EN 13284-1 2002
A2 on site plan in Schedule 7	Scrubber stack serving 2GT08 & 2GT09	Ammonia	15mg/m ³	1 hour	Quarterly	BS EN 14791
A3 on site plan in Schedule 7	Boiler Stack	No monitoring required	None set	-	-	-
A4 on site plan in Schedule 7	Flare Stack	Hydrogen Sulphide	No limit set	Spot sample	Annual	ISO 17025 accredited
A5 on site plan in Schedule 7	Scrubber Stack serving chemical plan LEV	Ammonia	15mg/m ³	1 hour	quarterly	BS EN 14791
A6 on site plan in Schedule 7	Scrubber stack serving Intermediate BFA storage bay	Ammonia	15mg/m ³	1 hour	Quarterly	BS EN 14791

Note 1: Schedule 6 details reference conditions

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 3.3.1.	A1, A2, A5 & A6	Quarterly	10/02/16
Emissions to air Parameters as required by condition 3.3.1.	A4	Annually	10/02/16

Table S4.2 Performance parameters

Parameter	Frequency of assessment	Units
Total waste produced (tonnes) per tonne of material processed	Annually	Tonnes/Tonne
Total energy usage (MWh) per tonne of material processed	Annually	Tonnes/Tonne
Total water usage (m ³) per tonne of material processed	Annually	Tonnes/Tonne

Table S4.3 Reporting forms

Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by Natural Resources Wales	10/02/16
Water usage	Form water usage 1 or other form as agreed in writing by Natural Resources Wales	10/02/16
Energy usage	Form energy 1 or other form as agreed in writing by Natural Resources Wales	10/02/16
Other performance indicators	Form performance 1 or other form as agreed in writing by Natural Resources Wales	10/02/16

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 activity that gives rise to an incident or accident which significantly affects or may significantly affect the environment	
To be notified Immediately	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a permit condition	
To be notified immediately	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

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

(c) In the event of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment:

To be notified immediately	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B - to be submitted as soon as practicable

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

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 - Interpretation

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

“Annex I” means Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“Annex II” means Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

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

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

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

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

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

“D” means a disposal operation 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 2010 No.675 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 or background concentration 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 given in Schedule 3 of the Hazardous Waste (England and Wales) Regulations 2005 No.894 and the Hazardous Waste (Wales) Regulations 2005 No. 1806 (W.138).

“Hazardous waste” has the meaning given in the Hazardous Waste (England and Wales) Regulations 2005 No.894, the Hazardous Waste (Wales) Regulations 2005 No. 1806 (W.138), the List of Wastes (England) Regulations 2005 No.895 and the List of Wastes (Wales) Regulations 2005 No. 1820 (W.148).

“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.

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

“Recovery” means any of the operations provided for in Annex IIB to Directive 2006/12/EC of the European Parliament and of the Council of 5 April 2006 on Waste.

“Waste code” means the six digit code referable to a type of waste in accordance with the List of Wastes (England) Regulations 2005, or List of Wastes (Wales) Regulations 2005, as appropriate, and in relation to hazardous waste, includes the asterisk.

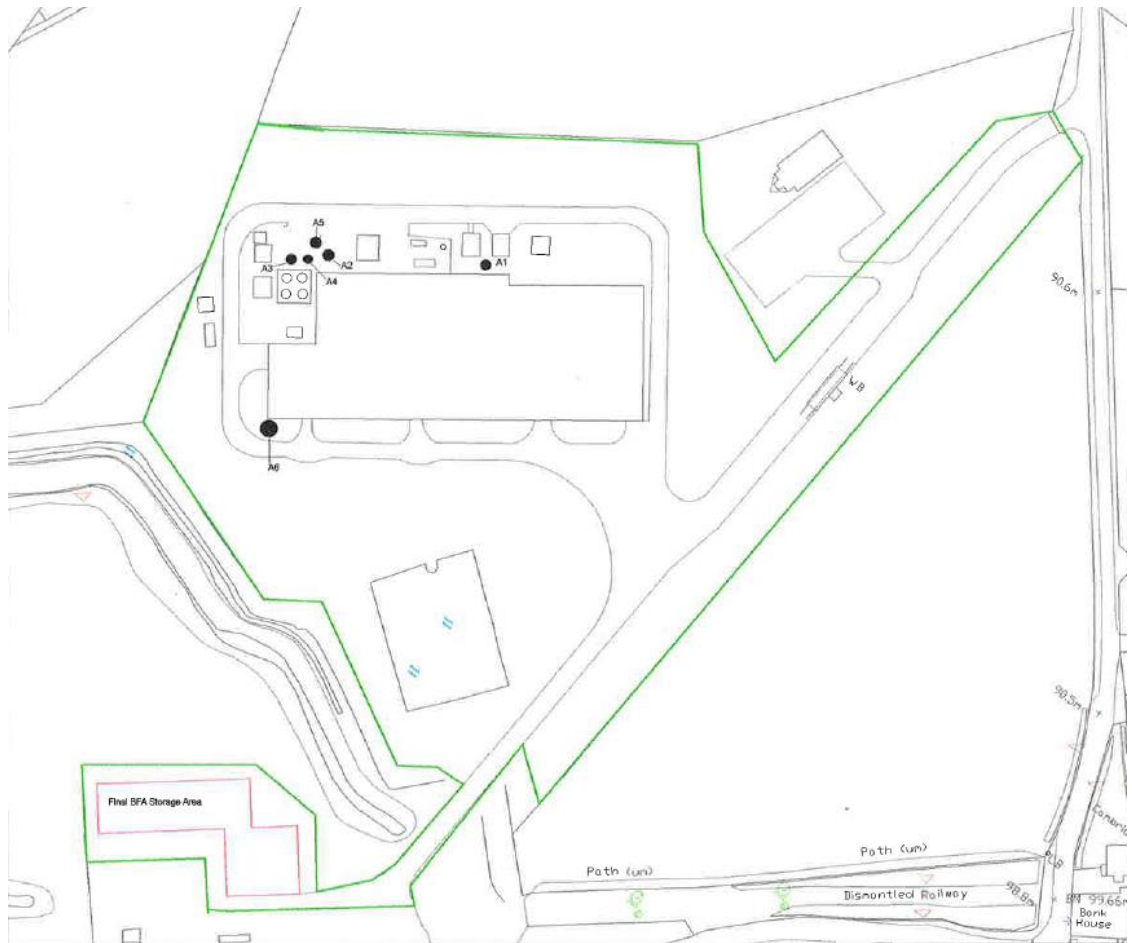
“Year” means calendar year ending 31 December.

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

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

- 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

Schedule 7 - Site plan



END OF PERMIT

Permit Number: EPR/VP3030BX Operator: Befesa Salt Slags Limited

Facility: Whitchurch Salt Slags Form Number: Air1 / 10/02/16

Reporting of emissions to air for the period from DD/MM/YYYY to DD/MM/YYYY

Emission Point	Substance / Parameter	Emission		Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
		Limit Value	Reference Period				
A1	Particulate Matter	12 mg/m ³	1 hour period		BS EN 13284-1:2002		
A2	Ammonia	15 mg/m ³	1 hour period		BS EN 14791		
A4	Hydrogen sulphide	None set	Spot sample		ISO 17025 accredited		
A5	Ammonia	15 mg/m ³	1 hour period		BS EN 14791		
A6	Ammonia	15 mg/m ³	1 hour period		BS EN 14791		

- [1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.
- [2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with Natural Resources Wales is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
- [3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
- [4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed
(Authorised to sign as representative of Operator)

Date.....

Permit Number: EPR/VP3030BX

Operator: Befesa Salt Slags Limited

Facility: Whitchurch Salt Slags

Form Number: WaterUsage1/ 10/02/16

Reporting of Water Usage for the year xxxx

Water Source	Usage (m ³ /year	Specific Usage (m ³ /tonne of material processed)
Mains water		
Recovered water		
TOTAL WATER USAGE		

Operator's comments :

Signed
(authorised to sign as representative of Operator)

Date.....

Permit Number: EPR/VP3030BX

Operator: Befesa Salt Slags Limited

Facility: Whitchurch Salt Slags

Form Number: Energy1 / 10/02/16

Reporting of Energy Usage for the year xxxx

Energy Source	Energy Usage		Specific Usage (MWh/tonne of material processed)
	Quantity	Primary Energy (MWh)	
Electricity *	MWh		
kerosene	MWh		
LPG	tonnes		
TOTAL	-		

* Conversion factor for delivered electricity to primary energy = 2.4

Operator's comments :

Signed
(Authorised to sign as representative of Operator)

Date.....

Permit Number: EPR/VP3030BX

Operator: Befesa Salt Slags Limited

Facility: Whitchurch Salt Slags

Form Number: Performance1 / 10/02/16

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

Parameter	Units
Total waste produced per tonne of material processed	tonnes
Operator's comments :	

Signed
(Authorised to sign as representative of Operator)

Date.....