

Variation notice with introductory note

Environmental Permitting (England & Wales) Regulations 2007

Holyhead Aluminium Smelter

Anglesey Aluminium Metal Ltd
Penrhos Works
P.O. Box 4
Holyhead
Anglesey
LL65 2UJ

Variation notice number
EPR/BL1100IX/V003

Permit number
EPR/BL1100IX

Holyhead Aluminium Smelter

Permit number EPR/BL1100IX

Introductory note

This introductory note does not form a part of the permit

The following notice, which is issued pursuant to regulation 20 and Part 1 of Schedule 5 of the Environmental Permitting (England and Wales) Regulations S.I.2007 No. 3538 (the Regulations), gives notice of the variation of an environmental permit to operate a regulated facility.

This variation temporarily suspends aluminium smelting and carbon electrode manufacturing activities, and associated release points, from the permit, as these plant have been mothballed. The variation also allows the re-melt furnaces and cast house to be used to re-melt and process aluminium from sources other than molten metal from the on-site smelting facility.

Schedule 1 of this notice lists any deleted conditions, Schedule 2 lists any amended conditions and Schedule 3 lists any conditions that have been added.

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

Status Log of the permit		
Detail	Date	Response Date
Response to Schedule 4 Part1 Notice	Notice dated 15/04/02	Response received 24/06/02
Supplementary Information	Received 02/09/02	Amended earlier Schedule 4 Part 1 Notice Responses
Response to Schedule 4 Part1 Notice	Notice dated 03/05/02	Response received 02/09/02
Supplementary Information	Received 05/11/02	Amended earlier Schedule 4 Part 1 Notice Responses
Permit BL1100	Determined 30/05/03	
Application for variation	Received 25/04/05	
Variation JP3532SB	Determined 29th June 2005	
Variation Application (DP3532KF) Duly Made	15/12/09	
Variation Notice EPR/BL1100IX/V003 issued	18/12/09	

End of Introductory Note

Notice of variation

Environmental Permitting
(England and Wales) Regulations 2007

Permit number

EPR/BL1100IX

The Environment Agency in exercise of its powers under Regulation 20 of the Environmental Permitting (England and Wales) Regulations 2007 (SI 2000 No 3538) varies the permit as set out below.

Anglesey Aluminium Metal Ltd ("the operator"),

whose registered office is

2 Eastbourne Terrace

London

W2 6LG

company registration number **909645**

holds a permit to operate a regulated facility at

Penrhos Works

PO Box 4

Holyhead

Anglesey

L65 2UJ

and that permit is varied to the extent set out in Schedules 1 to 3 of this notice.

The notice shall take effect from 18/12/09

Name	Date
<i>M A Bischer</i>	18/12/09

M. Bischer – Principal Permitting Team Leader, National Permitting Service

Authorised on behalf of the Environment Agency

Schedule 1 – conditions to be deleted

None.

Schedule 2 – conditions to be amended

The following conditions are amended as follows.

Table 1.1.1

Activity under Schedule 1 of the Regulations/ Associated Activity	Description of specified activity	Schedule 1 Activity Reference (if applicable)	Limits of specified activity
Raw materials handling	Unloading, transfer systems and raw material storage	Directly associated activity	All ship, rail and road receipt and transfer facilities (including underground tunnel). Associated dust abatement systems.
Heating tar or bitumen for the manufacture of electrodes ¹	Crushing / blending raw materials, green anode pressing and baking	6.3 A(1)(a)(ii)	Raw and recycled material storage, through to anode delivery to rodding room. Abatement systems.
Melting iron using an induction furnace ¹	Melting fresh and recycled cast iron for use in rodding process	2.1 B(b)(ii)	Storage of raw materials through to pouring iron, releases to air and waste arisings.
Anode rodding ¹	Attaching anodes to hangers, and aluminium spraying	Directly associated activity	Receipt of baked anodes through to delivery of anode assemblies to pot rooms. All abatement systems.
Cleaning and recycling of anode butts ¹	Breaking butts, cleaning butts and hangers, butts crushing	Directly associated activity	Butt storage through to recycle and interim storage of crushed products and wastes. Abatement systems.
Producing aluminium by electrolytic activities ¹	Electrolysis of alumina dissolved in cryolite in pot rooms	2.2 A(1)(a)	Transfer of alumina and other materials from storage, fume treatment plant, through to holding, casting, heat treatment and storage for export of aluminium products.
Melting recovered aluminium products	Recycling clean, in-house aluminium scrap	2.2 A(1)(b)	Storage of off-specification aluminium through to its addition to relevant charging and holding furnaces.
Ventilation air systems	Dust collector, fume treatment and ventilation air extract systems additional to those forming part of Schedule 1 activities.	Directly associated activity	From point of arising of aerial discharges through to entry into atmosphere, including all discharge systems and abatement equipment.
Water discharges to controlled waters	Discharge of process water, site drainage and sewage treatment effluent from the installation.	Directly associated activity	From points of arising to points of entry to sea.
Waste collection and storage systems	Accumulation and storage of process wastes from the installation.	Directly associated activity	From points of arising (including drossing operations, dross pressing, cell dismantling, bake furnace rebuild etc.) to points of export from the installation.

¹Note: These activities are not currently operational and are covered by a pre-operational condition in Table 1.1.3.

1.1.3 The operations specified in Table S1.1.3 shall not re-commence until the measures specified in that table have been completed.

Table 1.1.3 Pre –operational measures for future development

Reference	Operation	Pre-operational measures
PO1	Re-commencement of any activity in Table 1.1.1 identified with a superscript 1, or re-commencement of any release from any release point in Table 6.1.1 identified with a superscript 1	Before activities identified in table 1.1.1 and/or release points identified in table 6.1.1 as being unoperational are re-started, the operator shall give the Environment Agency notice of intention to re-start these activities/release points, fulfil any pre-operational conditions set by the Environment Agency, and shall not resume the operation of these activities/release points until written permission is received from the Environment Agency.

Table 2.2.1 : Raw materials (including water)

Description	Parts	Date Received
Application	The response to question 2.2 given in section B2.2 of the application	27/12/01
Response to Schedule 4 Part 1 Notice	Response to questions 10 – 15, 17 – 23, 25	24/6/02
Supplementary Information	Items 13 and 16	2/9/02
Supplementary Information	Item 24	5/11/02
Raw material description	Point of use	
Clean aluminium, as described in Part C, Appendix 4 page 2 of the Variation Application DP3532KF	Re-melt process	

Table 2.3.1: Operating techniques

Description	Parts	Date Received
Application	The response to question 2.3 given in section B2.3 of the application	27/12/01
Response to Schedule 4 Part 1 Notice	Response to questions 26 – 28, 30 – 35, 38 – 48, 50, 52 – 55, 57	24/6/02
Supplementary Information	Items 28, 29, 36, 37, 56	2/9/02
Supplementary Information	Items 47, 49, 53	5/11/02
Application for Variation	Document Variation AAM1	25/04/05
Variation application (DP3532KF)	Part C, Appendix 1A and 1B	16/10/09

Table 6.1.1: Emission points into air

Emission point reference	Source	Location of emission point
31A1 ¹	Hot oil boiler N exhaust	As shown on drawing 52-1017-C, provided with supplementary response to Schedule 4 Question 54, received 2 September 2002.
31A2 ¹	Hot oil boiler S exhaust	
31A4 ¹	Pitch fume scrubber	
31A5 ¹	Nuisance dust collection systems in green carbon plant, including mixers during the addition of dry feed materials	
31A9 ¹	750 t pitch storage tank cartridge filter	Immediately on top of each tank.
31A10 ¹	1000 t pitch storage tank cartridge filter	
31A11 ¹	90 t pitch storage “day” tank cartridge filter	
33A1 ¹	Anode bake plant cyclones	As shown on drawing 52-1017-C, provided with supplementary response to Schedule 4 Question 54, received 2 September 2002.
33A5 ¹	Baked anode cleaning station	
34A2 ¹	Aluminium spray booth	Roof of rodding room
34A3 ¹	Aluminium spray furnace	
34A4 ¹	Cast iron induction furnace	As shown on drawing 52-1017-C, provided with supplementary response to Schedule 4 Question 54, received 2 September 2002.
34A6 ¹	Collector bar shot blast cleaner	
34A7 ¹	Cast iron tumbler mill cleaner and rod shot blast unit	
34A8 ¹	Secondary butts cleaning machine	
35A1 ¹	Primary butts crushing unit	Eight vents spaced evenly along length of each pot room roof
35A2 ¹	Secondary butts crushing unit	
41A5 ¹	Autogenous mill (bath crusher)	
41A21 ¹	Roof of potroom 1A	West end of pot room 2A
41A22 ¹	Roof of potroom 1B	
41A23 ¹	Roof of potroom 2A	
41A24 ¹	Roof of potroom 2B	
41A26 ¹	Pot room West End dust collection	As shown on drawing 52-1017-C, provided with supplementary response to Schedule 4 Question 54, received 2 September 2002.
41A25 ¹	Cruce cleaning building	
42A1 ¹	Fume treatment plant	
43A2 ¹	“D” Charger	
43A4	“A” Charger	
43A5	“A” Holding furnace	
43A7	“A” SNIF unit	
43A8	“B” Charger and holding furnace	
43A10	“B” SNIF unit	
43A11	“C” Charger	
43A12 ¹	“C” Holding furnace	
43A13 ¹	Homogenising furnace No N3	
43A14 ¹	Homogenising furnace No M3	

43A15 ¹	Homogenising furnace No M4
43A19	Continuous homogenising unit

¹Note: These release points are not currently operational and are covered by a pre-operational condition in Table 1.1.3.

Schedule 3 – conditions to be added

The following conditions are added to the permit

Table 9.1.1: Improvement programme requirements		
Reference	Requirement	Date
9.40	The Operator shall make a written proposal to the Environment Agency for a 3-month monitoring programme of air emissions from release points 43A4, 43A8, 43A11 and 43A19, in order to characterise emissions to air from these release points. The proposal shall specify substances to be monitored, monitoring techniques, monitoring standards, monitoring frequency and reporting arrangements. The Environment Agency will confirm acceptance of the proposals in writing. Upon receiving written acceptance, the Operator shall carry out the monitoring programme and provide the results in a written report to the Environment Agency, in accordance with the agreed programme.	Programme to be proposed by 10/02/10

Schedule 4 – amended plan

None.