

Notice of variation with introductory note

Environmental Permitting (England & Wales) Regulations 2010

Anglesey Aluminium Metal Limited

Holyhead Aluminium Smelter
Penrhos Works
PO Box 4
Holyhead
Anglesey
Gwynedd
LL65 2UJ

Variation application number
EPR/BL1100IX/V007

Permit number
EPR/BL1100IX

Holyhead Aluminium Smelter

Permit number EPR/BL1100IX

Introductory note

This introductory note does not form a part of the notice

The following notice gives notice of the variation of an environmental permit.

This variation authorises the re-melting of clean scrap aluminium from sources in the secondary scrap market. The emission limit values (ELVs) for oxides of nitrogen (NO_x) and particulate matter (PM) have been increased to allow this mode of operation. The increases apply to releases from the charger and homogenising furnace stacks within the re-melt facility only. In addition, condition 2.5.3 has been added to allow the acceptance of waste metal originating outside of the installation for re-melt.

The schedules specify the changes made to the original permit.

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

Status log of the permit

Description	Date	Comments
Application BL1100	Received 27/12/2001	
Response to Schedule 4 Part 1 Notice	Notice dated 15/04/2002	Response received 24/06/2002
Supplementary Information	Received 02/09/2002	Amended earlier Schedule 4 Part 1 Notice Responses
Response to Schedule 4 Part 1 Notice	Notice dated 03/05/2002	Response received 02/09/2002
Supplementary Information	Received 05/11/2002	Amended earlier Schedule 4 Part 1 Notice Responses
Permit BL1100	Determined 30/05/2003	
Application for variation	Received 25/04/2005	
Variation JP3532SB	Determined 29/06/2005	
Variation Application (DP3532KF)	Duly Made 15/12/2009	
Variation Notice EPR/BL1100IX/V003 issued	18/12/2009	
Partial Transfer application EPR/ZP3337KE/T001 for transfer of part of permit BL1100IX	Duly Made 18/02/2010	
Partial Transfer of permit to new operator (Anglesey Aluminium Metal Renewables Ltd) issued EPR/ZP3337KE/T001	08/03/2010	
Partial Transfer of permit issued to Anglesey Aluminium Metal Ltd EPR/BL1100IX/T004	08/03/2010	
Variation EA/EPR/BL1100IX/V004 initiated	Approved 10/06/2010	
Variation EA/EPR/BL1100IX/V004 issued	19/11/2010	
Variation Application EPR/BL1100IX/V005 (returned to applicant – Not Duly Made).	Returned to applicant 13/06/2012	
Partial Surrender Application EPR/BL1100IX/S006	Duly Made 30/07/2012	
Additional information requests	06/08/2012	Response received 03/09/2012
Schedule 5 Notice	21/08/2012	Response received 27/09/2012

Partial Surrender Issued EPR/BL1100IX/S006	09/11/2012	
Variation Application EPR/BL1100IX/V007	Duly made 24/12/2012	Application for an increase to the NOx and PM ELVs within the re- melt facility.
Variation determined EPR/BL1100IX/V007	14/03/2013	Varied permit issued.

End of introductory note

Notice of variation

Environmental Permitting (England and Wales) Regulations 2010

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies

Permit number
EPR/BL1100IX

issued to:
Anglesey Aluminium Metal Limited ("the operator")

whose registered office is

2 Eastbourne Terrace
London
W2 6LG

company registration number 909645

to operate a regulated facility at

Holyhead Aluminium Smelter
Penrhos Works
PO Box 4
Holyhead
Anglesey
Gwynedd
LL65 2UJ

to the extent set out in the schedules.

The notice shall take effect from 14/03/2013

Name	Date
Eirian Macdonald	14/03/2013

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 a result of the application made by the operator

Table 1.1.1 shall be amended to:

Table 1.1.1			
Activity under Schedule 1 of the Regulations / Associated Activity	Description of specified activity and WFD Annex IIA and IIB operations	Schedule 1 Activity Reference (if applicable)	Limits of specified activity and waste types
Raw materials handling	Unloading, transfer systems and raw materials storage	Directly associated activity	All rail and road receipt and transfer facilities. 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.

Table 1.1.1 (continued)

Activity under Schedule 1 of the Regulations / Associated Activity	Description of specified activity and WFD Annex IIA and IIB operations	Schedule 1 Activity Reference (if applicable)	Limits of specified activity and waste types
Melting recovered aluminium products	Recycling clean, in-house aluminium scrap and aluminium from the secondary scrap market. R4: Recycling / reclamation of metals and metal compounds R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage pending collection, on the site where it is produced).	2.2 A(1) (b)	Storage of off-specification aluminium through to its addition to relevant charging and holding furnaces. Waste types and quantities as specified in Table 2.5.3
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 site.	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 site.	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.
¹ Note: These activities are not currently operational and are covered by a pre-operational condition in Table 1.1.3.			

Table 6.1.3 shall be amended to:

Table 6.1.3 Emission limits into air – emission points 43A4, 43A8, 43A11 and 43A19						
Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
43A4 [as specified in table 6.1.1]	Particulate matter	“A” Charger	25 mg/m ³ [1] 5 mg/m ³ [2]	Mean value over 4 hour reference period	Bi-annual	BS EN 15267-3
43A4 [as specified in table 6.1.1]	Fluoride (total fluoride including boron trifluoride)	“A” Charger	1 mg/m ³	Mean value over 4 hour reference period	Bi-annual	BS ISO 15713
43A4 [as specified in table 6.1.1]	Hydrogen chloride	“A” Charger	5 mg/m ³	Mean value over 4 hour reference period	Bi-annual	BS EN 1911
43A4 [as specified in table 6.1.1]	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	“A” Charger	100 mg/m ³	Mean value over 4 hour reference period	Bi-annual	BS EN 14792
43A4 [as specified in table 6.1.1]	Sulphur dioxide	“A” Charger	50 mg/m ³	Mean value over 4 hour reference period	Bi-annual	BS EN 14791
43A4 [as specified in table 6.1.1]	Carbon monoxide	“A” Charger	150 mg/m ³	Mean value over 4 hour reference period	Bi-annual	BS EN 15058
43A4 [as specified in table 6.1.1]	VOC	“A” Charger	50 mg/m ³	Mean value over 4 hour reference period	Bi-annual	BS EN 13526

Table 6.1.3 Emission limits into air – emission points 43A4, 43A8, 43A11 and 43A19 (continued)

Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
43A8 [as specified in table 6.1.1]	Particulate matter	“B” charger and holding furnace	25 mg/m ³ ^[1] 5 mg/m ³ ^[2]	Mean value over 4 hour reference period	Bi-annual	BS EN 15267-3
43A8 [as specified in table 6.1.1]	Fluoride (total fluoride including boron trifluoride)	“B” charger and holding furnace	1 mg/m ³	Mean value over 4 hour reference period	Bi-annual	BS ISO 15713
43A8 [as specified in table 6.1.1]	Hydrogen chloride	“B” charger and holding furnace	5 mg/m ³	Mean value over 4 hour reference period	Bi-annual	BS EN 1911
43A8 [as specified in table 6.1.1]	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	“B” charger and holding furnace	100 mg/m ³	Mean value over 4 hour reference period	Bi-annual	BS EN 14792
43A8 [as specified in table 6.1.1]	Sulphur dioxide	“B” charger and holding furnace	50 mg/m ³	Mean value over 4 hour reference period	Bi-annual	BS EN 14791
43A8 [as specified in table 6.1.1]	Carbon monoxide	“B” charger and holding furnace	150 mg/m ³	Mean value over 4 hour reference period	Bi-annual	BS EN 15058
43A8 [as specified in table 6.1.1]	VOC	“B” charger and holding furnace	50 mg/m ³	Mean value over 4 hour reference period	Bi-annual	BS EN 13526

Table 6.1.3 Emission limits into air – emission points 43A4, 43A8, 43A11 and 43A19 (continued)

Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
43A11 [as specified in table 6.1.1]	Particulate matter	“C” charger	25 mg/m ³ ^[1] 5 mg/m ³ ^[2]	Mean value over 4 hour reference period	Bi-annual	BS EN 15267-3
43A11 [as specified in table 6.1.1]	Fluoride (total fluoride including boron trifluoride)	“C” charger	1 mg/m ³	Mean value over 4 hour reference period	Bi-annual	BS ISO 15713
43A11 [as specified in table 6.1.1]	Hydrogen chloride	“C” charger	5 mg/m ³	Mean value over 4 hour reference period	Bi-annual	BS EN 1911
43A11 [as specified in table 6.1.1]	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	“C” charger	100 mg/m ³	Mean value over 4 hour reference period	Bi-annual	BS EN 14792
43A11 [as specified in table 6.1.1]	Sulphur dioxide	“C” charger	50 mg/m ³	Mean value over 4 hour reference period	Bi-annual	BS EN 14791
43A11 [as specified in table 6.1.1]	Carbon monoxide	“C” charger	150 mg/m ³	Mean value over 4 hour reference period	Bi-annual	BS EN 15058
43A11 [as specified in table 6.1.1]	VOC	“C” charger	50 mg/m ³	Mean value over 4 hour reference period	Bi-annual	BS EN 13526

Table 6.1.3 Emission limits into air – emission points 43A4, 43A8, 43A11 and 43A19 (continued)

Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
43A19 [as specified in table 6.1.1]	Particulate matter	Continuous homogenising unit	25 mg/m ³ ^[1] 5 mg/m ³ ^[2]	Mean value over 4 hour reference period	Bi-annual	BS EN 15267-3
43A19 [as specified in table 6.1.1]	Fluoride (total fluoride including boron trifluoride)	Continuous homogenising unit	1 mg/m ³	Mean value over 4 hour reference period	Bi-annual	BS ISO 15713
43A19 [as specified in table 6.1.1]	Hydrogen chloride	Continuous homogenising unit	5 mg/m ³	Mean value over 4 hour reference period	Bi-annual	BS EN 1911
43A19 [as specified in table 6.1.1]	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	Continuous homogenising unit	100 mg/m ³	Mean value over 4 hour reference period	Bi-annual	BS EN 14792
43A19 [as specified in table 6.1.1]	Sulphur dioxide	Continuous homogenising unit	50 mg/m ³	Mean value over 4 hour reference period	Bi-annual	BS EN 14791
43A19 [as specified in table 6.1.1]	Carbon monoxide	Continuous homogenising unit	150 mg/m ³	Mean value over 4 hour reference period	Bi-annual	BS EN 15058
43A19 [as specified in table 6.1.1]	VOC	Continuous homogenising unit	50 mg/m ³	Mean value over 4 hour reference period	Bi-annual	BS EN 13526
^[1] ELV applies until 31 st December 2014						
^[2] ELV applies from 1 st January 2015						

Table S3 shall be amended to:

Table S3 Reporting forms		
Medium / Parameter	Form Number	Date of Form
Air	A1,A2,A3,A4,A5,A6	28/06/05
Air	A7	14/03/13
Water	W1,W2,W3	28/06/05
Energy	E1	28/06/05
Waste return	R1	28/06/05
Water Use Return	R2	28/06/05
Out-plant monitoring return	M1	28/06/05
Performance Indicators	P1,P2	28/06/05
Release summaries	S1,S2	28/06/05
Waste subject to condition 4.1.9	Waste tonnage return form from the Environment Agency website or other form as agreed in writing by the Environment Agency.	n/a

Schedule 3 – conditions to be added

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

2.5.3 Waste shall only be accepted if:

- (a) it is of a type and quantity listed in table 2.5.3 and
- (b) it conforms to the description in the documentation supplied by the producer and holder.

Table 2.5.3 Permitted waste types and quantities for Melting Recovered Aluminium Products activity	
Maximum quantity	The total quantity of waste accepted at the site shall not exceed 84,000 tonnes per year
Waste code	Description
10	WASTES FROM THERMAL PROCESSES
10 02	Wastes from aluminium thermal metallurgy
10 03 99	Wastes not otherwise specified (aluminium smelter pot bottoms)
16	WASTES NOT OTHERWISE SPECIFIED ON THE LIST
16 01	End-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling end-of-life vehicles and vehicle maintenance (except 13, 14, 16, 16 06 and 16 08)
16 01 18	Non-ferrous metal (alloy wheels)
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 04	Metals (including their alloys)
17 04 02	Aluminium

4.1.9 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.

The following improvement conditions shall be added to Table 9.1.1:

Table 9.1.1: Improvement Programme Requirements		
Reference	Requirement	Date
9.41	The Operator shall submit for approval a written plan to achieve the BAT emission benchmark for releases of Particulate Matter from emission points 43A4, 43A8, 43A11 and 43A19, as defined in Technical Guidance Note EPR 2.03 "Non-Ferrous Metals and the Production of Carbon and Graphite".	30 th June 2014
9.42	The Operator shall implement the approved measures to achieve the BAT emission benchmark for releases of Particulate Matter from emission points 43A4, 43A8, 43A11 and 43A19 as agreed in writing with the Environment Agency, following the completion of improvement condition 9.41 above.	31 st December 2014

The following expressions and their meanings shall be added to Section 10, Interpretation:

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

"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.