

Notice of variation with introductory note

Environmental Permitting (England & Wales) Regulations 2010

Yuasa Battery (UK) Limited

Rassau Battery Manufacturing Site
Unit 22
Rassau Industrial Estate
Ebbw Vale
Gwent
NP23 5SD

Variation application number

EPR/BV5386IX/V003

Permit number

EPR/BV5386IX

Rassau Battery Manufacturing Site

Permit number EPR/BV5386IX

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 incorporates a number of operational changes which have taken place at the site since the original permit was issued in 2005 including the incorporation of process lead recycling operations. It also corrects an error relating to the capacity of holding vessels, consequently resulting in one activity being removed and another activity being added to Table S1.1.1 Activities.

The Emissions Points to Air table (Table 2.2.1) has also been updated to reflect operations on site and subsequent tables containing references to these have also been updated accordingly.

The Listed activities have been updated where applicable to account for recent changes to the Environmental Permitting Regulations resulting from the Industrial Emissions Directive.

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 BV5386IX received	24/12/04	
Response to request for information	Request dated 11/02/05 and 23/03/05	Response dated 15/02/05, 16/02/05, 25/02/05, 28/02/05, 02/03/05, 23/03/05, 24/03/05
Permit determined	09/05/05	Permit issued to Yuasa Battery (UK) Limited
Variation application VP3731UW received	03/09/07	
Response to request for information	Request dated 15/09/07, 30/10/07, 09/11/07	Response dated 21/09/07, 22/10/07, 25/10/07, 07/11/07, 09/11/07
Variation notice VP3731UW issued	19/12/07	
Variation Application EPR/BV5386IX/V003 Received & Duly made	17/07/13	ADD BRIEF DESCRIPTION OF WHAT THEY ARE APPLYING FOR
Variation Application EPR/BV5386IX/V003 Determined	17/10/13	Varied permit issued

End of introductory note

Notice of variation

Environmental Permitting (England and Wales) Regulations 2010

The Natural Resources Body for Wales (“Natural Resources Wales”) in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies

Permit number
EPR/BV5386IX

issued to:
Yuasa Battery (UK) Limited (“the operator”)

whose registered office is:
Unit 22
Rassau Industrial Estate
Ebbw Vale
Gwent
NP23 5SD

company registration number: **01561536**

to operate a regulated facility at:
Rassau Battery Manufacturing Site
Unit 22
Rassau Industrial Estate
Ebbw Vale
Gwent
NP23 5SD

to the extent set out in the schedules. The notice shall take effect from 17/10/13.

Name	Date
	17/10/13

Authorised on behalf of Natural Resources Wales

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 Activities is amended as follows:

Table S1.1.1 Activities		
Activity listed in Schedule 1 of the Environmental Permitting Regulations	Description of specified activity and WFD Annex IIA and IIB operations	Limits of specified activity and waste types
S2.2 A(1)(a) producing non-ferrous metals from ore, concentrates or secondary raw materials by metallurgical, chemical or electrolytic activities.	Melting and casting of primary lead in 1 furnace processing >4 tonnes per day and 1 furnace processing <4 tonnes per day. R4 for waste produced on site only.	From receipt of raw materials to production and storage of lead ingots, disposal of waste and emission of exhaust gases.
S2.2 A(2)(a) Melting, including making alloys, of non-ferrous metals, including recovered products and operating 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 no 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	Melting and casting of secondary lead in 10 furnaces with >4 tonnes per day capacity.	From receipt of raw materials to production of lead grids, disposal of waste and emission of exhaust gases.

Table S1.1.1 Activities

Activity listed in Schedule 1 of the Environmental Permitting Regulations	Description of specified activity and WFD Annex IIA and IIB operations	Limits of specified activity and waste types
S2.2 B(a) Melting, including making alloys, of non-ferrous metals (other than tin or any alloy which in molten form contains 50 per cent or more by weight of tin), including recovered products (such as refining or foundry casting) in plant with a melting capacity of 4 tonnes or less per day for lead or cadmium or 20 tonnes or less per day for all other metals.	Melting and casting of secondary lead in 12 furnaces with <4 tonnes per day capacity.	From receipt of raw materials to production of strip cast lead, disposal of waste and emission of exhaust gases.
S4.2 A(1)(a)(v) Producing inorganic chemicals such as— non-metals, metal oxides, metal carbonyls or other inorganic compounds (for example calcium carbide, silicon, silicon carbide, titanium dioxide)	Production of Lead Oxide from lead pellets.	From receipt of lead pellets to production and storage of lead oxide, waste and emission of exhaust gases.
S4.2 A(1)(d) Unless falling within any other Section, any manufacturing activity (other than the application of a glaze or vitreous enamel) involving the use of, or the use or recovery of, any compound of any of the following elements— (vi) lead; where the activity may result in the release into the air of any of those elements or compounds or the release into water of any substance listed in paragraph 7 of Part 1 of this Schedule.	Manufacture of lead paste and cutting of lead sheet to form expanded grids.	From receipt of lead oxide to production of lead paste and manufacture of grids, disposal of waste, effluent and emission of exhaust gases.

Table S1.1.1 Activities

Activity listed in Schedule 1 of the Environmental Permitting Regulations	Description of specified activity and WFD Annex IIA and IIB operations	Limits of specified activity and waste types
Directly Associated Activity		
Production, construction of charging batteries Including the preparation of moulded cases, assembly, sealing and charging.	-	From receipt of materials and components to dispatch of batteries, storage of waste for recycling or disposal and emission of exhaust gases.
Quality control, fault testing an investigation of manufactured batteries. Including voltage tests and manual disassembly of failed batteries to allow fault analysis.	-	From receipt of manufactured batteries to testing and recycling or disposal of waste. Activities shall comply with Annex III, Part A of Directive 2006/66/EC.
Combustion processes that are <20MWth input	-	From receipt of raw materials to production and disposal of waste, effluent and emission of exhaust gases.
External storage of wet batteries	-	From receipt of assembled batteries to charging and dispatch from the installation.
Treatment of abstracted water	-	From receipt of raw materials and borehole water to dispatch within the installation.
Effluent treatment	-	From receipt of raw materials and effluent to discharge of treated effluent to sewer.
Surface water collection and discharge	-	From collection of surface water to discharge to Cwm Nant Mellyn.

Table 2.2.1: Emission points to air is amended as follows:

Table 2.2.1: Emission points to air		
Emission point reference or description	Source	Location of emission point
A1	Oxide Mill No4	As shown on plan FPE-076-01 received as part of variation application EPR/ BV5386IX/V003
A2	Oxide Mill No5	
A3	Casting off – Cut Hopper	
A4	Casting Ladles 1-16	
A5	Lead Recycling	
A6	Pasting machine mixers 2 & 3	
A7	Expanded grid line and flash drying oven No1	
A8	Auto charging	
A9	Lead recycling	
A10	Aging oven 1	
A11	Assembly line 9A	As shown on plan FPE-076-01 received as

A12	Pellet caster/ small parts caster	part of variation application EPR/ BV5386IX/V003
A13	Assembly	
A14	Assembly lines 6-8 and vacuum	
A15	Assembly	
A16	Assembly EN line and vacuum stack 1	
A17	Assembly EN line and vacuum stack 2	
A18	Cutting machines 1-7 vacuum	
A19	Dross bins 1-8	
A20	Oxide Mill No.6	
A21	Aging oven 2	
A22	Ex new NNP Vacuum	As shown on plan FPE-076-01 received as part of variation application EPR/ BV5386IX/V003
A23	Oxide mill No7	
A24	Assembly line 9 extraction	
A25	Assembly line 9 Vacuum	
A26	Casting pots 1-8	
A27	Small parts furnaces 1-3	
A28	Cast-on strap line 1 (LEV)	As shown on plan FPE-076-02 received as part of variation application EPR/ BV5386IX/V003
A29	Cast -on strap line 2 (LEV)	
A30	Cast-on strap line 3(LEV)	
A31	Cast-on strap line 4 (LEV)	
A32	Cast-on strap line 5 (LEV)	
A33	Cast-on strap line 6 (LEV)	
A34	Cast-on strap line 7 (LEV)	
A35	Hydro-setting oven lane 1	
A36	Hydro-setting oven lane 2	
A37	Pasting machine No2 Take off	
A38	Pellet Caster Gas burner Stack 1	
A39	Pellet Caster Gas burner Stack 2	
A40	Mill extraction 4	
A41	Mill extraction 5	
A42	Mill extraction 6	
A43	Mill extraction 7	
A44	Flash drying oven No2	
A45	Flash drying oven No3	
A46	Gas drying oven No1 burner	
A47	Gas drying oven No1 steam	
A48	Gas drying oven No2 burner	
A49	Gas drying oven No2 steam	
A50	Gas drying oven No3 burner	
A51	Gas drying oven No3 steam	
A52	Gas drying oven No9 burner	
A53	Gas drying oven No9 steam	
A54	Gas drying oven No10 burner	
A55	Gas drying oven No10 steam	
A56	Combat heater No1, factory 3 SW (outside canteen)	
A57	Combat heater No2, factory 3 SE (near shrink wrap machine)	
A58	Combat heater No3, factory 3	

	NE	
A59	0.85MW _{th} Boiler	
A60	1.75MW _{th} Boiler	
A61	Dross recycling burner	
A62	Hydro-setting oven lanes 3&4 steam	
A63	Combat heater No4, Factory 2 warehouse NE	
A64	Combat heater No5, factory 1 warehouse NE	
A65	Assembly FT and line 9A lid bonding and terminal seal	
A66	Assembly line 7 lid bonding and terminal seal	
A67	Assembly line 8 lid bonding and terminal seal	
A68	Assembly line 9 lid bonding and terminal seal	
A69	Assembly line 10 heat seal x 3 workstations (1 stack)	
A70	Assembly line 10 terminal seal	
A71	Assembly ex lines 1, 2 & 3 lid bonding and terminal seal	
A72	Assembly charging Ex lines 1,2 & 3	
A73	Assembly charging lines 7 &9A	
A74	Charging line 8 stack 1	
A75	Charging line 8 stack 2	
A76	Charging line 8 stack 3	
A77	Charging line 8 stack 4	
A78	Resin decanting room LEV	
A79	Resin mixing room LEV	
A80	Laboratory fume cabinet	
A81	Laboratory workbench LEV	
A82	Laboratory AA machine LEV	
A83	Water treatment plant workbench LEV	
A84	Welding room LEV	
A85	Air intake to No2 pasting mixer	

Table 2.2.2: Emission limits to air and monitoring is amended as follows:

Table 2.2.2: Emission limits to air and monitoring				
Emission point reference	Parameter	Limit (including reference period) ¹	Monitoring frequency	Monitoring method
A1-A5, A9, A11-A12, A15-A17, A19-A20, A23-A26	Lead	0.5mg/m ³	Quarterly spot sample	BSEN 14385:2004
A6, A18	Lead	1.0 mg/m ³		
A7, A13, A14, A22	Lead	2.0 mg/m ³		

Note 1: See section 6.1.3.2 of BV5386IX issued 09/05/05.

Table S2: Reporting of Monitoring Data is amended as follows:

Table S2: Reporting of Monitoring Data			
Parameter	Emission Point	Reporting period	Period Begins
Lead mg/m ³	A1 to A7, A9, A11 to A20 and A22 to A26	Quarterly	17/10/13
pH	S1 and S2	Quarterly	
Lead mg/l	S1 and S2	Quarterly	
Cadmium and its compounds ,g/l	S1 and S2	Annual	
Mercury and its compounds mg/l	S1 and S2	Annual	
Cadmium and its compounds g	S1 and S2	Annual	
Mercury and its compounds g	S1 and S2	Annual	
Copper and its compounds	S1 and S2	Six monthly	
Zinc and its compounds	S1 and S2	Six monthly	
Nickel and its compounds	S1 and S2	Six monthly	
Chromium and its compounds	S1 and S2	Six monthly	
Chemical Oxygen Demand mg/l	S1 and S2	Six monthly	
Total suspended solids mg/l	S1 and S2	Six monthly	
Sulphate mg/l	S1 and S2	Six monthly	
Flow m ³ /day	S1 and S2	Annual	
Lead µg/m ³	Ambient monitors No1228 (NE of the site) And No1227 (SW of the site)	Annual	
Sulphuric acid mist mg/m ³	A8	Quarterly when in service	
Lead mg/m ³ (from continuous particulate monitors)	Particulate Monitors (PCME DT990)	Quarterly	
Boiler efficiency	A35-A36,A38-39, A46, A48, A50, A52, A54, A56-A64	Annual when in service	
Water usage	Installation	Annual	
Energy usage	Installation	Annual	
Waste disposal and/or recovery	Installation	Annual	

Table S3: Reporting Forms is amended as follows:

Table S3: Reporting Forms		
Media/parameter	Form number	Date of form
Air	A1	17/10/13
Sewer	S1	09/05/05
Mass Release	MR1	09/05/05
Ambient	Annual Report	09/05/05
Energy	E1	09/05/05
Waste Return	R1	09/05/05
Water usage	WU1	09/05/05
Performance indicators	PI1	09/05/05

Schedule 3 – conditions to be added

None