

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 | As shown on plan FPE-076-02 received as part of variation application EPR/BV5386IX/V003 |
| 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 | As shown on plan FPE-076-02 received as part of variation application EPR/ BV5386IX/V003 |
| 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 | As shown on plan FPE-076-02 received as part of variation application EPR/ BV5386IX/V003 |
| A28 | Cast-on strap line 1 (LEV) | |
| 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