

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Siniat Limited
Siniat Limited
Marsh Lane
Easton in Gordano
Bristol
BS20 0NF

Variation application number

EPR/XP3036SZ/V004

Permit number

EPR/XP3036SZ

Siniat Limited

Permit number EPR/XP3036SZ

Introductory note

This introductory note does not form a part of the notice.

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

Process Description:

The Portbury Plasterboard Facility is located in Marsh Lane, Easton in Gordano, near Bristol and is operated by Lafarge Plasterboard Ltd. The site centre is at Ordnance Survey grid reference 350750 176980. The installation is surrounded by land in industrial use, disused land and open farmland. The River Avon lies 600m to the north and east, and beyond, the River Severn estuary is 800m to the north.

The Installation is for the production of plasterboard and coving from gypsum. The Installation accepts gypsum rock and recovered plaster gypsum by ship and road as the main raw materials, which are stored in an enclosed facility. The gypsum is crushed and then milled and heated, or fed into a flash calciner and heated. Both routes lead to the production of stucco (heated, dried gypsum). The heated stucco is combined with additives and water to produce slurry. The slurry is extruded, cut and dried to form plasterboard and coving, which is stored and dispatched to the customer.

The waste gypsum recovery unit receives wet and dry waste plaster scrap from on and off site, which is crushed, milled and calcined, or sent for use on the board lines.

The main emissions from the Installation are to air, and comprise particulates from the gypsum process and combustion gases from the combustion processes. There are no process discharges to sewer or surface water. No disposal to land takes place at the Installation.

There are two European Habitats Sites within 10km; the Severn Estuary SPA and the Avon Gorge Woodlands SAC. There is also one SSSI (the Severn Estuary SSSI) within 2km of the installation.

The installation has an internal Environmental Management System (EMS) certified to ISO 14001.

Description of changes permitted by this variation:

The primary purpose of this variation is to extend the site boundary to allow new building housing calcining operations, refining plant and gypsum storage. This will allow existing production line (board line 2) within the installation to operate exclusively using de-sulphurised gypsum and crushed recycled waste plasterboard as the raw material.

Other significant changes made by this variation are as follows:

- Reducing particulate matter emission limits to be 50mg/m³ in line with DEFRA's Process guidance note 3/12 (04) for plaster processes;
- Consolidating previous variations and upgrading the permit to our current permit template;
- Renumbering of board line 2 dust abatement emission point A8 to reflect the EU Emission Trading Scheme numbering;
- Removal of requirement to report on total particulate mass release, as this is reported by the annual pollution inventory return ;
- Inclusion of new operating techniques via table S1.2.

The schedules specify the changes made to the 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 XP3036SZ | Duly made 04/04/06 | |
| Request for further information made | 10/05/06 | 22/05/06 |
| Permit determined | 19/09/06 | |
| Variation application EPR/XP3036SZ/V002 | Duly made 17/01/12 | |
| Variation determined EPR/XP3036SZ/V002 | 20/03/12 | |
| Application EPR/XP3036SZ/V003 (admin variation) | Duly made 10/12/12 | |
| Variation determined EPR/XP3036SZ/V003 | 07/01/13 | Varied permit issued. |
| Application EPR/XP3036SZ/V004 (variation and consolidation) | Duly made 30/05/14 | Application to vary permit to allow new calcining operations, refining plant and gypsum storage and existing operations to use just DSG and waste platerboard |
| Variation determined EPR/XP3036SZ | 30/07/14 | Varied and consolidated permit issued in modern condition format. |

End of introductory note

Notice of variation and consolidation

The 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 and consolidates

Permit number

EPR/XP3036SZ

Issued to

Siniat Limited (“the operator”)

whose registered office is

Marsh Lane

Easton in Gordano

Bristol

BS20 0NF

company registration number **02163844**

to operate a regulated facility at

Siniat Limited

Marsh Lane

Easton in Gordano

Bristol

BS20 0NF

to the extent set out in the schedules.

The notice shall take effect from 30/07/2014

| Name | Date |
|------------|--------------|
| A.J. Nixon | 30 July 2014 |

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied by the consolidated permit as a result of the application made by the operator or as a result of upgrading to the current permit template.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number

EPR/XP3036SZ

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/XP3036SZ/V004 authorising,

Siniat Limited (“the operator”),

whose registered office is

Marsh Lane

Easton in Gordano

Bristol

BS20 0NF

company registration number 02163844

to operate an installation at

Siniat Limited

Marsh Lane

Easton in Gordano

Bristol

BS20 0NF

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

| Name | Date |
|------------|--------------|
| A.J. Nixon | 30 July 2014 |

Authorised on behalf of

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”).

2.2 The site

- 2.2.1 The activities shall not extend beyond the site, being the land shown edged in red on the site plan at schedule 7 to this permit.

2.3 Operating techniques

- (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 the Environment Agency.
- (b) If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency 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 the Environment Agency.
- 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 table S2.2 ; 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.

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 the Environment Agency.

- 2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency 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, and S3.2.
- 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 the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency 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 the Environment Agency.
- 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 Odour

- 3.3.1 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 the Environment Agency, 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.
- 3.3.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency 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 the Environment Agency.

3.4 Noise and vibration

- 3.4.1 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 the Environment Agency, 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.

3.4.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency 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 the Environment Agency.

3.5 Monitoring

3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:

- (a) point source emissions specified in tables S3.1, and S3.2.

3.5.2 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.

3.5.3 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 the Environment Agency.

3.5.4 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 tables S3.1 and S3.2 unless otherwise agreed in writing by the Environment Agency.

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 the Environment Agency, 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 the Environment Agency.

4.2 Reporting

4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.

- 4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) 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 annual production /treatment data set out in schedule 4 table S4.2; and
 - (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 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 the Environment Agency, 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 S4.4 ; 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 the Environment Agency, 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 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.

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 the Environment Agency,
 - (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 the Environment Agency, 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 the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency

when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.

- 4.3.4 The Environment Agency 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.

- 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) the Environment Agency 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 The Environment Agency 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, the Environment Agency 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 "without delay", 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 | Limits of specified activity |
| A1 | Section 1.1 A1 (a) (i) | Burning any fuel in an appliance with a rated thermal input >50MW (aggregation of all units). | From heating of prepared gypsum, production of slurry, extrusion into formers and drying of plaster board and coving. Operation of abatement |
| A2 | Section 3.5 B (a) | Unless falling within Part A(1) or Part A(2) of any Section of this Schedule, the crushing, grinding or size reduction, other than the cutting of stone, or the grading, screening or heating of any designated mineral or mineral product except where the operation of the activity is unlikely to result in the release into the air of particulate matter (plaster process). | From receipt of gypsum and other raw materials on-site to drying of finished product, incorporating the directly associated activities below. |
| Directly Associated Activity | | | |
| A3 | Directly associated activity | Reclamation of plasterboard and gypsum based waste for use in the production process including storage and screening | From the receipt of plasterboard and gypsum waste to its use in manufacture or disposal as waste. Waste types as specified in table S2.2. |
| A4 | Directly associated activity | Operation of condensate recovery systems | Receipt of moisture-laden air to return of condensate to the manufacturing process or its disposal as a waste. |

| Table S1.2 Operating techniques | | |
|---|--|-----------------------|
| Description | Parts | Date Received |
| Application | The response to section 2.1 and 2.2 in the Application. | 04/04/06 |
| Additional information to the application | Responses to questions 2, 4 and 5 detailing the condensate return system, the containment for wax and additive unloading areas, and the wax overflow point. | 22/05/06 |
| Variation Application EPR/XP3036SZ/V002 | All documentation submitted in support of Application EPR/XP3036SZ/V002 | 09/12/11 and 17/01/12 |
| Variation Application EPR/XP3036SZ/V003 | Response to section 3 of part C3 of the application form, and sections 1, 3.2, 3.3, 4 and 7 of “Environmental Permit Report – Final, May 2014 Revised, 47066810.B002/LORP0001” | Duly made 30/5/14 |

| Table S1.3 Improvement programme requirements | | |
|--|---|-------------|
| Reference | Requirement | Date |
| IC1 | The Operator shall review the adequacy of secondary containment around all external storage and delivery areas and identify improvements required, having regard to the Environment Agency draft Combustion Guidance Note, July 2005. The Operator shall submit a written report to the Environment Agency, identifying, for each area of external storage or delivery, the existing secondary containment, identified improvements and a timetable for carrying out the identified improvements. | Complete |
| IC2 | The Operator shall establish a programme for testing the integrity of pollution prevention measures, having regard to the Environment Agency draft Combustion Guidance Note, July 2005. A written programme shall be submitted to the Environment Agency. | Complete |
| IC3 | The Operator shall submit a written procedure to the Environment Agency detailing the measures to be used so that monitoring equipment, personnel and organisations employed for the emissions monitoring programme shall have either MCERTS certification or accreditation in accordance with condition 3.6.3. The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the procedure. The procedure shall be implemented by the Operator from the date of approval in writing by the Environment Agency. | Complete |
| IC4 | The Operator shall develop a written flood management plan, which shall include details relating to measures in place to prevent pollution in the event of flood, storm surge, emergency overflow or the production of fire-waters on site. The plan shall be submitted to the Agency in writing. | Complete |
| IC5 | The Operator shall submit a proposal to the Environment Agency to carry out a programme to investigate CO and SO ₂ emission concentrations from all combustion sources, identify the causes of releases above benchmark values in Environment Agency draft Combustion Guidance Note, July 2005, and propose a programme of improvements to reduce emission levels. The proposal shall include a timetable to conduct tests and produce a report on the results. On receipt of written agreement by the Environment Agency to the proposal and the timetable, the Operator shall carry out the tests and submit to the Environment Agency a report of the results. | Complete |
| IC6 | The Operator shall assess the viability of recovering condensate from the cove line and provide a written report on the assessment to the Agency, which shall included a timetabled programme for implementing viable options. | Complete |
| IC7 | The Operator shall develop a written site closure plan, having regard to the Environment Agency draft Combustion Guidance Note, July 2005. The written plan shall be submitted in writing to the Environment Agency. | Complete |
| IC8 | The Operator shall provide the Environment Agency with a written report containing six months' particulates monitoring data from points A2, A3 and A6. The report shall identify the causes of any exceedances above 50mg/m ³ , and propose techniques to reduce emissions below 50mg/m ³ . | Complete |
| IC9 | The Operator shall review the design and operation of the burners in use, having regard to the Environment Agency draft Combustion Guidance Note, July 2005 Section 2.2 and shall submit a report in writing to the Environment Agency, detailing the potential for NO _x reduction, the improvements required and a timescale for implementation, which shall be | Complete |

| Table S1.3 Improvement programme requirements | | |
|--|---|---|
| Reference | Requirement | Date |
| | adhered to unless otherwise agreed in writing by the Environment Agency. | |
| IC10 | The operator shall provide a post commissioning report, providing monitoring results for the emissions of oxides of nitrogen, sulphur dioxide and particulates from emission points A13 and A14 listed in table S3.1. | Within 1 month of the completion of commissioning |

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 use in the production process | |
|---|--|
| Maximum quantity | Maximum annual process limit of 75,000 tonnes |
| Waste code | Description |
| 01 01 | wastes from mineral excavation |
| 01 01 02 | wastes from mineral non-metalliferous excavation |
| 01 04 | wastes from physical and chemical processing of non-metalliferous minerals |
| 01 04 08 | waste gravel and crushed rocks other than those mentioned in 01 04 07 (not containing dangerous substances) |
| 01 04 10 | dusty and powdery wastes other than those mentioned in 01 04 07 (not containing dangerous substances) |
| 01 04 11 | wastes from potash and rock salt processing other than those mentioned in 01 04 07 (not containing dangerous substances) |
| 06 05 | sludges from on-site effluent treatment |
| 06 05 03 | sludges from on-site effluent treatment other than those mentioned in 06 05 02 (not containing dangerous substances) |
| 06 06 | wastes from the MFSU of sulphur chemicals, sulphur chemical processes and desulphurization processes |
| 06 06 03 | wastes containing sulphides other than those mentioned in 06 06 02 (not containing dangerous sulphides) |
| 10 01 | wastes from power stations and other combustion plants (except 19) |
| 10 01 05 | calcium-based reaction wastes from flue-gas desulphurisation in solid form |
| 10 01 07 | calcium-based reaction wastes from flue-gas desulphurisation in sludge form |
| 10 12 | wastes from manufacture of ceramic goods, bricks, tiles and construction products |
| 10 12 03 | particulates and dust |
| 10 12 06 | discarded moulds |
| 10 12 08 | waste ceramics, bricks, tiles and construction products (after thermal processing) |
| 10 13 | wastes from manufacture of cement, lime and plaster and articles and products made from them |
| 10 13 01 | waste preparation mixture before thermal processing |
| 10 13 06 | particulates and dust (except 10 13 12 and 10 13 13) |
| 10 13 07 | sludges and filter cakes from gas treatment |
| 10 13 99 | wastes not otherwise specified |
| 15 01 | packaging (including separately collected municipal packaging waste) |

| Table S2.2 Permitted waste types and quantities for use in the production process | |
|--|---|
| Maximum quantity | Maximum annual process limit of 75,000 tonnes |
| Waste code | Description |
| 15 01 05 | composite packaging |
| 16 03 | off-specification batches and unused products |
| 16 03 04 | inorganic wastes other than those mentioned in 16 03 03 (not containing dangerous substances) |
| 17 08 | gypsum-based construction materials |
| 17 08 02 | gypsum-based construction materials other than those mentioned in 17 08 01 (not containing dangerous substances) |
| 19 12 | wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified |
| 19 12 09 | minerals (for example sand, stones) |
| 19 12 12 | other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11 |
| 19 13 | wastes from soil and groundwater remediation |
| 19 13 02 | solid wastes from soil remediation other than those mentioned in 19 13 01 |
| 19 13 06 | sludges from groundwater remediation other than those mentioned in 19 13 05 |

Schedule 3 – Emissions and monitoring.

For the purposes of this Schedule, the following interpretations shall apply:

- For the continuous measurement systems fitted to the release points defined in Table S3.1 the validated hourly , and daily averages shall be determined from the measured valid hourly average values after having subtracted the value of the 95% confidence interval.
- The 95% confidence interval for dust releases of a single measured result shall be taken to be 30%
- An invalid hourly average means an hourly average period invalidated due to malfunction of, or maintenance work being carried out on, the continuous measurement system. However, to allow some discretion for zero and span gas checking, or cleaning (by flushing), an hourly average period will count as valid as long as data has been accumulated for at least two thirds of the period (40 minutes). Such discretionary periods are not to exceed more than 5 in any one 24-hour period unless agreed in writing. Where plant may be operating for less than the 24-hour period, such discretionary periods are not to exceed more than one quarter of the overall valid hourly average periods unless agreed in writing.
- Any day, in which more than three hourly average values are invalid shall be invalidated

| Emission point ref. & location | Source | Parameter | Limit (including unit) | Reference period | Monitoring frequency | Monitoring standard or method |
|---|----------------------------|------------------|-------------------------------|--|-----------------------------|--------------------------------------|
| A1 [Point A1 on site plan in Schedule 7] | Cove line dryer | Particulates | No limit set | - | Daily | No permanent access required |
| A2 [Point A2 on site plan in schedule 7] | Flash calciner gas burner | Particulates | 50 mg/m ³ | Validated daily average of validated hourly averages | Continuous | BS EN 13284-2 |
| A3 [Point A3 on site plan in schedule 7] | Mill 1 & 2 | Particulates | 50 mg/m ³ | Validated daily average of validated hourly averages | Continuous | BS EN 13284-2 |
| A4 [Point A4 on site plan in schedule 7] | Line 1 dryer | Particulates | No limit set | - | Daily | No permanent access required |
| A5 [Point A5 on site plan in schedule 7] | Line 2 dryer | Particulates | No limit set | - | Daily | No permanent access required |
| A6 [Point A6 on site plan in schedule 7] | Gas burners on kettles 1-4 | Particulates | 50 mg/m ³ | Validated daily average of validated hourly averages | Continuous | BS EN 13284-2 |
| A8 [Point A8 on site plan in schedule 7] | Boardline 2 dust abatement | Particulates | No limit set | - | Annual | No permanent access required |

| Table S3.1 Point source emissions to air – emission limits and monitoring requirements | | | | | | |
|---|--|------------------|-------------------------------|--|-----------------------------|--------------------------------------|
| Emission point ref. & location | Source | Parameter | Limit (including unit) | Reference period | Monitoring frequency | Monitoring standard or method |
| A13 [Point A13 on site plan in schedule 7] | Calciner process (gas fired burner, plus abated process emissions) | Particulates | 50 mg/m3 | Validated daily average of validated hourly averages | Continuous | BS EN 13284-2 |
| A14 [Point A14 on site plan in schedule 7] | Reclaim process (burner, plus abated process emissions) | Particulates | 50 mg/m3 | Validated daily average of validated hourly averages | Continuous | BS EN 13284-2 |

| Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements | | | | | | |
|---|---------------|-------------------|---------------------------|-------------------------|-----------------------------|--------------------------------------|
| Emission point ref. & location | Source | Parameter | Limit (incl. unit) | Reference Period | Monitoring frequency | Monitoring standard or method |
| W1 and W2 (on map in schedule 7) emission to River Avon | Surface water | No parameters set | No limit set | | | |

Schedule 4 – Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

| Parameter | Emission or monitoring point/reference | Reporting period | Period begins |
|--------------|--|------------------|---------------|
| Particulates | A2, A3, A6, A13 & A14 | Every 6 months | 1 January |

| Parameter | Units |
|-------------------------|--------|
| Plasterboard and coving | tonnes |

| Parameter | Frequency of assessment | Units |
|-------------------------|-------------------------|-----------|
| Water usage | Annually | tonnes |
| Energy usage | Annually | MWh/tonne |
| Total raw material used | Annually | tonnes |

| Media/parameter | Reporting format | Date of form |
|------------------------------|---|--------------|
| Air | Form air 1 or other form as agreed in writing by the Environment Agency | 23/07/14 |
| Water usage | Form water usage 1 or other form as agreed in writing by the Environment Agency | 25/07/06 |
| Energy usage | Form energy 1 or other form as agreed in writing by the Environment Agency | 25/07/06 |
| Other performance indicators | Form performance 1 or other form as agreed in writing by the Environment Agency | 25/07/06 |

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 malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution | |
| To be notified within 24 hours of detection | |
| 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 limit | |
| To be notified within 24 hours of detection unless otherwise specified below | |
| 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) Notification requirements for the detection of any significant adverse environmental effect | |
|--|--|
| To be notified within 24 hours of detection | |
| 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.

"annually" means once every year.

“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 the Environment Agency 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.

“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 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.

“Industrial Emissions Directive” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions

“MCERTS” means the Environment Agency’s Monitoring Certification Scheme.

“mcr” means maximum continuous rating.

“Natural gas” means naturally occurring methane with no more than 20% by volume of inert or other constituents.

“ncv” means net calorific value.

“notify without delay” / “notified without delay” means that a telephone call can be used, whereas all other reports and notifications must be supplied in writing, either electronically or on paper.

"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.

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.

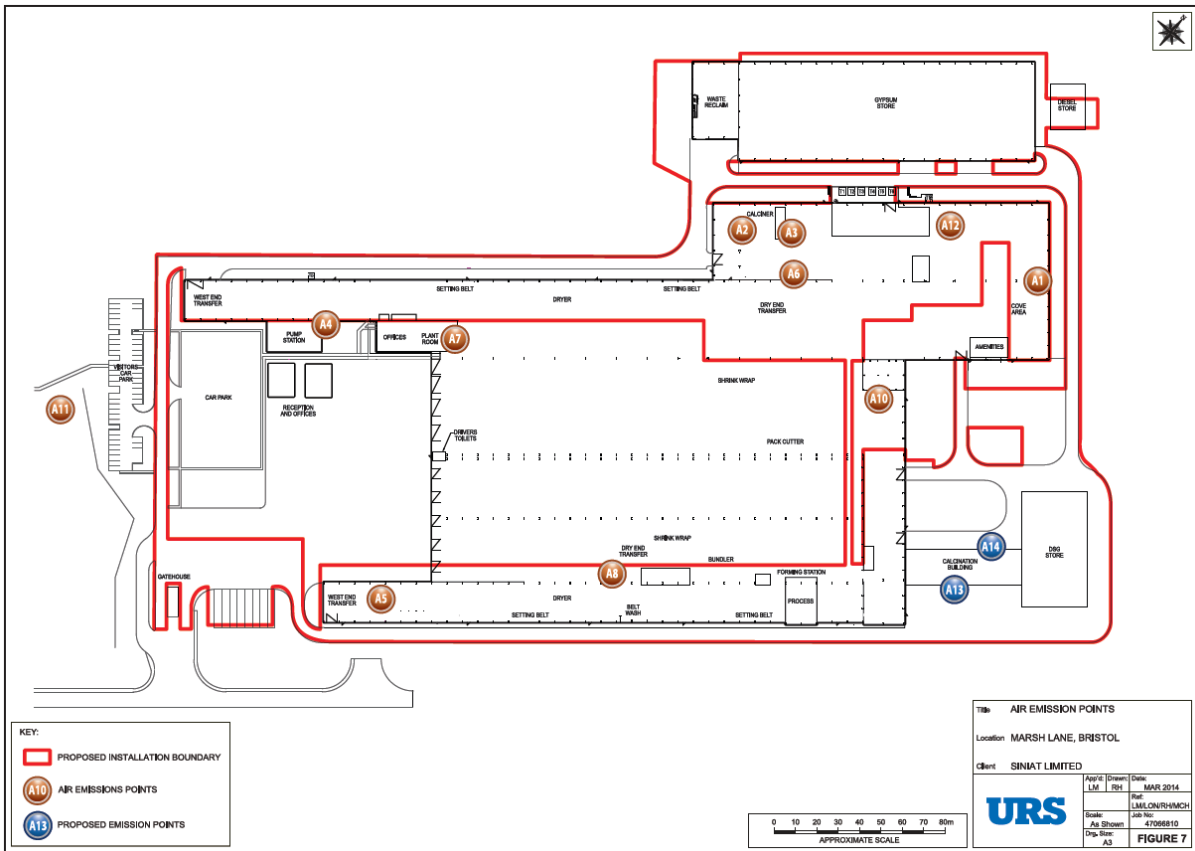
Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

- 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 the manufacture of gypsum based products; an oxygen content of 18%, dry, the concentration at a temperature of 273K, and at a pressure of 101.3 kPa, for liquid and gaseous 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.

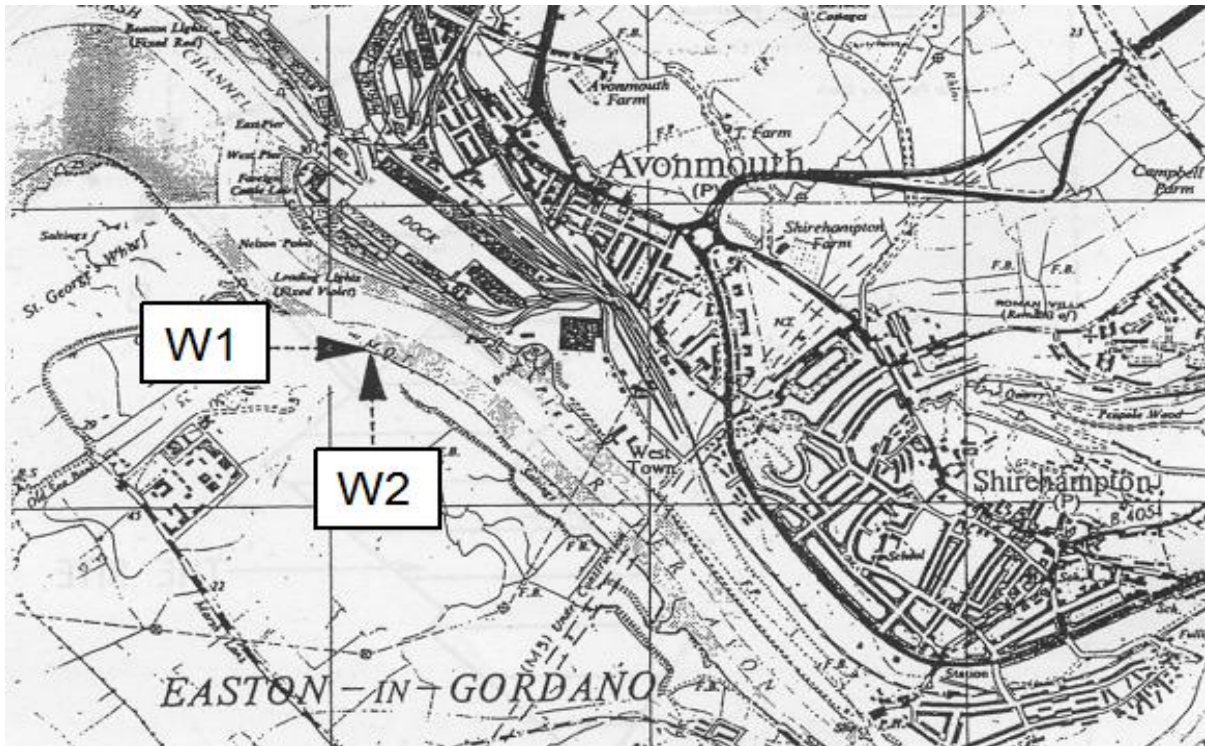
“year” means calendar year ending 31 December.

Schedule 7 – Site plan

Air emission points and installation boundary:



Water emission points:



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END OF PERMIT