



Hereby Permit

Wessex Crystal Limited
Unit 4 Silver End Industrial Estate
Brierley Hill
West Midlands DY5 3LA

To Operate a Part B Installation at:

Wessex Crystal Limited
Unit 4 Silver End Industrial Estate
Brierley Hill
West Midlands DY5 3LA

Under The Provisions of

The Pollution Prevention and Control Act 1999
The Environmental Permitting (England and Wales) Regulations 2010

Permit Reference Number

PB/07

Date Initial Permit Issued:

8th July 2011

T. Glews.

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Dated: 8th July 2011

T Glews, Environmental Protection Manager

(Authorised to sign on behalf of Dudley Metropolitan Borough Council)

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INTRODUCTORY NOTE TO PERMIT

This introductory note does not form part of the permit

The Environmental Permit (The Permit) is issued by Dudley Metropolitan Borough Council (the Council) under Regulation 13(1) of The Environmental Permitting (England and Wales) Regulations 2010 (the EP Regulations) (S.I. 2010 No. 675), to operate an installation prescribed in Part 2 of Schedule 1 of those Regulations, to the extent specified in the conditions of this permit.

The requirements of this Permit shall be effective from the date of service unless otherwise specified within the Permit. Where a Variation Notice has been served the conditions contained within that Variation Notice shall be effective from the date that the Notice is served, unless a specific implementation date is allocated to specific conditions.

For the purpose of this permit the legal operator of the installation is Wessex Crystal Limited, Unit 4 Silver End Industrial Estate, Brierley Hill, West Midlands DY5 3LA. Company Number: 05052850

STATUS LOG

The status log sets out the permitting history

Detail	Reference	Date
Deemed Application Made	PB/07	1 st April 2004
Permit Issued	PB/07	8 th July 2011

End of introductory note

DESCRIPTION OF INSTALLATION

Unpolished lead crystal glass blanks are received and marked within the installation to the required pattern. The blanks are then cut to the required pattern on 2 cutting lathes which are provided with water to suppress emissions of lead crystal glass dust, produced from the cutting process. The cutting lathes are provided with local extraction ventilation which is connected to a bag filter which exhausts within the installation. The installation also receives lead crystal glassware in a cut but unpolished state.

The cut glass products are polished by submersion into still polishing baths containing a mixture of sulphuric and hydrofluoric acid. The glass products are then rinsed in water and dried before being packed and dispatched.

Fumes produced by the acid polishing process are captured by local extraction ventilation and directed to an acid fume scrubbing unit, before being emitted to atmosphere via a chimney stack.

This installation falls within the definition of, Part 2, Chapter 3, Section 3.3 - Part B (d) of Schedule 1 of the Environmental Permitting (England & Wales) Regulations 2010. The attached location plan “Appendix 1 – Site plan PB/07” shows the designated site as a hatched area.

CONDITIONS

1.0 THE PERMITTED INSTALLATION

- 1.1 The permitted installation shall be comprised of the activities and associated activities specified in Table 1.1:

Table 1.1	
Activity listed in Schedule 1 of Environmental Permitting Regulations 2010 or Associated Activity	Description of specified activity
Section 3.3, Part B (d) – Polishing of glass products during the course of manufacturing activity using hydrofluoric acid	The acid polishing of lead crystal glass products.
Directly Associated Activity - Handling of raw materials	The handling of raw materials including receipt through to sending material via a designated process route.
Directly associated activity: - The cutting of glass.	Decorating glass by cutting on cutting lathes
Directly Associated Activity – Handling of waste materials	Collection and storage of waste materials.

- 1.2 The activities specified in Table 1.1 shall not extend beyond the site, being the hatched area on the Site Plan PB/07 in Appendix 1 to this permit.
- 1.3 If the operator proposes to make a change in operation of the installation, the operator must, at least 28 days before making the change, notify the Council in writing. The notification must contain a description of the proposed change in operation. It is not necessary to make such a notification if an application to vary this permit has been made and the application contains a description of the

proposed change. In this condition 'change in operation' means a change in the nature or functioning, or an extension, of the installation, which may have consequences for the environment.

- 1.4 The best available techniques shall be used to prevent or, where that is not practicable, reduce emissions to a minimum from the installation in relation to any aspect of the operation of the installation which is not regulated by any other condition of this permit.

2.0 EMISSION LIMITS AND CONTROLS

- 2.1 All emissions to air other than condensed water vapour shall be free from persistent visible emissions.
- 2.2 All emissions to air shall be free from droplets.
- 2.3 The introduction of dilution air to achieve emission concentration limits contained within this Permit is not permitted. Exhaust flow rates for emissions shall be consistent with efficient capture of emissions.
- 2.4 The limit for emissions of total fluoride to air (expressed as hydrogen fluoride) from the chimney stack serving the acid fume scrubbing unit shall not exceed the emission concentration limits shown in Table 2.4 below.

TABLE 2.4		
Substance	Emission Concentration Limit	Monitoring frequency
Total fluoride emissions expressed as hydrogen fluoride	5 mg/m ³	Manual Extractive - Every 4 years Indicative Testing - Every 6 months

The concentrations of substances measured in accordance with this condition shall be expressed at reference conditions 273K, 101.3 kPa with oxygen and

water references which shall correspond to the normal operating conditions of the acid fume scrubbing unit.

3.0 MONITORING, SAMPLING AND MEASUREMENT OF EMISSIONS

- 3.1 Manual extractive monitoring, of emissions from the stack serving the acid fume scrubbing unit, shall be undertaken for concentrations of fluoride (expressed as hydrogen fluoride) by 30th April 2012 and every 4 years thereafter, to demonstrate compliance with the emission limits stipulated in Condition 2.4.
- 3.2 Emissions from the stack serving the acid fume scrubbing unit shall be indicatively monitored for concentrations of fluoride once every 6 months by the use of an appropriate absorption tube or other method approved in writing by Dudley Metropolitan Borough Council. This monitoring shall be undertaken strictly in accordance with the instructions of the manufacturer of the indicative monitoring equipment.
- 3.3 The Operator shall notify the Council in writing at least 21 days before the commencement of any manual extractive testing undertaken in accordance with Condition 3.1. The notification shall include the name and address and any other relevant details of the person(s) or company engaged to undertake the monitoring exercise; the time, and date, on which the monitoring exercises are scheduled to begin, together with a full specification of the monitoring programme including the proposed sampling and analysis techniques.
- 3.4 The results of emissions monitoring undertaken in accordance with Condition 3.1 and 3.2 together with details of the process conditions at the time monitoring is undertaken, shall be forwarded to the Council within 28 days of the completion of the monitoring unless otherwise agreed. A record of the results shall be maintained in accordance with Condition 6.1 of this Permit.
- 3.5 Adverse results from non-continuous monitoring shall be investigated by the operator as soon as the monitoring data has been obtained /received. The operator shall identify the cause and take corrective action. The operator shall record as much detail as possible regarding the cause and extent of the problem, and the action taken to rectify the situation. A re-test to demonstrate compliance shall be carried out within 28 days of receipt of the monitoring data. The operator shall notify the regulator of the results of the retest within 14 days of the completion of the monitoring exercise unless otherwise agreed.
- 3.6 Emissions monitoring of fluoride shall be carried out in accordance with the relevant CEN standard where available, or otherwise an equivalent methodology agreed with the Council. Where monitoring is not in accordance with the main

procedural requirements of the relevant standard, deviations shall be reported as well as an estimation of any error revoked.

- 3.7 During all monitoring exercises the process being monitored must be operated under normal conditions at full capacity and unless otherwise instructed by Officers of the Council, the monitoring shall be undertaken over the whole production cycle.
- 3.8 Adequate and safe facilities to enable monitoring/sampling to be carried out in accordance with Conditions 3.1 and 3.2 shall be provided.
- 3.9 The chimney stack serving the acid fume scrubbing unit shall be observed for any visible emissions to air once per shift for a period of at least five minutes whilst the process is in operation. The observations shall be made from a position providing an unobstructed view of the point of emission to air by a responsible person who has been instructed to carry out these duties. A record of all observations shall be maintained in accordance with Condition 6.1. The records shall include the time, location, assessment of the nature and severity of any emission observed, the source of emissions to air, details of any corrective action taken and the identity of the person making the record.

The Council shall be notified immediately if emissions to air are observed which may contravene any conditions of this permit or which pose a risk to health or the environment, immediate action shall be taken to determine the cause of the emission and to prevent or minimise further emissions.

4.0 Materials Handling

- 4.1 All containers of acid shall be stored, in a dedicated, well ventilated area, including partly used or nominally empty containers. All containers shall be kept sealed or tightly closed and shall not be pressurised to effect delivery from them unless they are designed to be used in this way.
- 4.2 Acid shall not be stored in containers with a capacity of greater than 45 litres.
- 4.3 All containers of acid shall be stored within a catchment tray designed to be impervious and resistant to the chemicals in storage, and be capable of holding 110% of the capacity of the largest storage tank.
- 4.4 All baths shall be provided with local extract ventilation and ducted to arrestment equipment to meet the provisions of condition 2.4. Extract ventilation shall be used at all times when acid polishing is undertaken.
- 4.5 The transfer of acid from the containers to the polishing bath and spent acid from the polishing bath into containers for disposal shall be carried out in such a manner as to reduce emissions of acid fume and acid spillage to an absolute minimum.
- 4.6 Spillages of liquids and finely divided materials shall be cleaned up immediately. Liquid spillages shall be contained and removed by the use of a suitable absorbent material. Spillages of finely divided materials shall be removed by means of vacuum cleaning or by wet cleaning methods. Dry sweeping of dusty spillages shall not be permitted.
- 4.7 The stack exhausting the acid fume scrubbing unit shall not be fitted with any restriction at the final opening such as a plate, cap or cowl with the exception of a cone which may be necessary to increase the exit velocity of the emissions.
- 4.8 The linear velocity of emissions from the stack exhausting the acid fume scrubbing unit shall not be so great as to cause droplet fallout.
- 4.9 The ducting from the extraction equipment to the acid fume-scrubbing unit shall be examined once per week for any defects which will adversely affect the extraction capabilities, or allow fugitive emissions of pollutants. Any such defects shall be repaired immediately. A record of the examination, and any repairs made shall be maintained in accordance with Condition 6.1 of this Permit.
- 4.10 The chimney exhausting the acid fume scrubbing unit shall be retained at its present height of 8 metres above ground level.
- 4.11 Accumulations of waste particulate matter shall be collected and transported around the site in covered containers or sealed bags. Accumulations of waste particulate matter and waste packaging materials shall be stored in covered

containers or sealed bags within a waste materials skip, or inside an enclosed building, whilst awaiting removal for disposal.

5.0 GENERAL CONDITIONS

- 5.1 The Operator shall maintain and implement written procedures to ensure that regular cleaning and effective preventative maintenance in accordance with the manufacturer's instructions is employed on all plant, equipment and technical means concerned with the production, capture, transport, control and exhaust of emissions which could lead to an adverse impact on the environment. A record of relevant maintenance shall be made in the records required to be kept in accordance with condition 6.1
- 5.2 Essential spares and consumables shall be held on site or shall be available from a guaranteed supplier at short notice so that plant breakdown can be rectified rapidly.
- 5.3 Staff at all levels shall receive the necessary formal training and instruction in their duties relating to control of the process and emissions to air. Particular emphasis shall be given to training for start-up and shut-down and action required to minimise emissions during abnormal conditions.
- 5.4 The Operator shall maintain a record in accordance with Condition 6.1 of the skills and training requirements for all staff whose task in relation to the Permitted Installation, may have an impact on the environment and shall keep records of all relevant training.
- 5.5 In the case of abnormal emissions, malfunction or breakdown leading to abnormal emissions the operator shall investigate immediately and take corrective action, adjust the process or activity to minimise the emissions and promptly record the events and actions taken. Any malfunction or breakdown which results in emissions to atmosphere which are likely to cause an adverse effect on the local community shall be reported to the Council immediately, and a record of the incident shall be maintained in accordance with Condition 6.1.

6.0 RECORDS

6.1 The Operator shall ensure that all records required to be made by this Permit and other records made in relation to the operation of the Installation shall:

- (a) be made available for inspection by the Council at any reasonable time;
- (b) be supplied to the Council on demand and without charge;
- (c) be legible;
- (d) be made as soon as reasonably practicable;
- (e) indicate any amendments which have been made and shall include the original record wherever possible; and
- (f) be retained at the Installation, or other location agreed by the Council in writing, for a minimum period of 4 years from the date when the records were made, unless otherwise agreed in writing.

Appendix 1 – Site Location Plan PB/07

Wessex Crystal Limited





Explanatory Note to Environmental Permit

(This note does not form a part of the Permit)

The enclosed Permit is issued under Regulation 13 of the Environmental Permitting (England and Wales) Regulations 2010 (S.I. 2010 No.675), to operate an installation carrying out activities covered by the description in Section 3.3, Part B (d) of Part 2 Schedule 1 of the EP Regulations, to the extent permitted by the Permit.

Best Available Techniques (BAT)

Aspects of the operation of the installation which are not regulated by specific conditions of the Permit are subject to the general condition included in the Permit requiring the operator to use BAT to prevent or reduce emissions that are not covered by specific permit conditions.

The best available techniques shall be used to prevent or, where that is not practicable, reduce emissions from the installation in relation to any aspect of the operation of the installation which is not regulated by any other condition of this permit.

The determination of what constitutes BAT is made on a case-by-case basis however where Process Guidance Notes are available these will be used as the baseline for what is BAT. Formal definitions of BAT can be found in the IPPC Directive.

Process Changes

The Permit contains a condition requiring you to notify the Council of any proposed change in operation at least 28 days before making the change. This must be in writing and must contain a full description of the proposed change in operation and the likely consequences to the permitted activity. Failure to do so is an offence. It is also good practice to notify the Council of any administrative changes, such as the name or address of the operator.

Variations to the Permit

If you consider that a proposed change could result in the breach of the existing permit conditions or is likely to require the variation of permit conditions then you may apply in writing under Regulation 20 of the EP Regulations. Additionally, if this involves a SUBSTANTIAL CHANGE (A change in operation which, in the opinion of the Council may have significant negative effects on human health or the environment) to the installation you will be required to submit an application, pay the relevant fee and the application will be subject to publicity and consultation.

The Council may decide that the existing permit conditions require amendment without receiving any notification or an application for variation from the operator. This is most likely to occur when the Council has conducted a periodic review in accordance with EP regulation 34 or in the light of revised guidance from Defra. The Council will serve a Variation Notice under EP Regulation 20 on the Operator and may issue a consolidated Permit under EP Regulation 18.

Transfer of the Permit or Part of the Permit

Before the Permit can be wholly or partially transferred to another person, a joint application to transfer the Permit has to be made by both the existing and proposed holders, in accordance with EP Regulation 21. A transfer will be allowed unless Dudley Metropolitan Borough Council considers that the proposed holder will not be the person who will have control over the operation of the installation or will not operate the installation in accordance with the Permit.

Annual Subsistence Fee

Operators must pay an annual subsistence fee for the Permit in accordance with EP Regulation 65. This fee is payable annually on 1st April and the level of the subsistence fee payable is contained within the relevant charging scheme issued annually by the Secretary of State. The charging scheme is risk based for all standard activities (i.e. not dry cleaning, petrol stations, small waste oil burners and vehicle refinishers). The risk-based method uses a point scoring method and applies a low, medium or high risk rating to activities operating at an installation. The resulting subsistence fees are proportionate to the risk rating.

You will receive an invoice each year with respect to this payment and you are advised that if prompt payment of the fee is not forthcoming, Dudley Metropolitan Borough Council may revoke your Permit under EP Regulation 22 or suspend your Permit under Regulation 65.

Public Register

The Council is required by Regulation 46 of the EP Regulations to maintain a Public Register containing information on all LA-IPPC and LAPPC installations and mobile plant. The register is available for inspection by the public free of charge during office hours (Monday to Friday 9.00am to 5.00pm) at:

**Dudley Metropolitan Borough Council,
Directorate of the Urban Environment,
Cloughton House,
Blowers Green Road,
Dudley
DY2 8UZ**

Confidentiality

An operator may request certain information in relation to the Permitted installation to remain confidential and not to be placed on the Public Register for reasons of National Security or commercial or industrial confidentiality. The operator must provide clear justification for each item he or she wishes to be kept from the register. Dudley Metropolitan Borough Council must consider and determine all requests of confidentiality of information in accordance with EP Regulation 51.

Talking to Us

Any communication with Dudley Metropolitan Borough Council with respect to this Permit should quote the Permit Reference Number, and should be made to:

Dudley Metropolitan Borough Council,

**Directorate of the Urban Environment,
Claughton House,
Blowers Green Road,
Dudley
DY2 8UZ
Email: Enviroprotect.DUE@dudley.gov.uk**

**Telephone: 01384 814685
Fax: 01384 815599**



Appeals

Under Regulation 31 of the EP Regulations operators have the right of appeal against the conditions contained within their permit. An appeal does not have the effect of suspending the Permit conditions.

Notice of appeal against the conditions attached to the permit must be given within six months of the issue date of the Permit, which is the subject matter of the appeal.

How to Appeal

There are no charges for making an appeal, application forms can be obtained from <http://www.planning-inspectorate.gov.uk/pins/environment/environmeny/index.htm>

For an appeal to be valid, appellants (the person/operator making the appeal) are legally required to provide:

- written notice of the appeal;
- a statement of the grounds of appeal;
- a statement indicating whether the appellant wishes the appeal to be dealt with by written representations procedure or a hearing - a hearing must be held if either the appellant or enforcing authority requests this, or if the Planning Inspector or the Secretary of State decides to hold one.
- (appellants must copy the above three items to the local authority when the appeal is made)
- a copy of any relevant application;
- a copy of any relevant permit;
- a copy of any relevant correspondence between the appellant and the regulator; and
- a copy of any decision or notice, which is the subject matter of the appeal.

Where to Send Your Appeal Documents

Appeals should be addressed to:

**The Planning Inspectorate
Environment Team, Major and Specialist Casework
Room 4/04 – Kite Wing
Temple Quay House
2 The Square
Temple Quay**

Bristol BS1 6PN

0117 372 8726

In the course of an Appeal process the main parties will be informed of procedural steps by the Planning Inspectorate.

To withdraw an appeal the appellant must notify the Planning Inspectorate in writing and copy the notification to the local authority.