



**POLLUTION PREVENTION AND CONTROL ACT 1999  
ENVIRONMENTAL PERMITTING REGULATIONS 2007**

**Permit Number: 2.2/049995/JT**

**Installation Address:**

Brass Founders Sheffield  
Gower Works  
Gower Street  
Sheffield  
S4 7LJ

**In accordance with Regulation 13 of the Environmental Permitting (England and Wales) Regulations 2007 as amended, Europa Engineering Ltd trading as Brass Founders Sheffield is hereby permitted to operate a scheduled activity at the address detailed above, namely the melting, including making alloys, of non-ferrous metals as described in Schedule 1, Part 2, Chapter 2, Section 2.2, Part B, subsection (a) and subject to the following conditions of this Permit.**

Signed

Dated this day: *10 July 2008*

**Assistant Manager  
Authorised by Sheffield City Council to sign on their behalf**

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The following Secretary of States Guidance Notes have provided the framework for the conditions in this Permit:

PG 2/3 "Electrical, Rotary, Crucible and Reverberatory Furnaces"

PG 2/4 "Iron, Steel and Non Ferrous Metal Foundry Processes"

PG 2/7 "Zinc and Zinc Alloy Processes"

PG 2/8 "Copper and Copper Alloy Processes"

***Name & Address of Operator:***

Brass Founders Sheffield

Gower Works

Carlisle Street

Sheffield

S4 7LJ

Contact: Mick Goodwin, Tel: 0114 2727 557; 07917 658 522

***Address of Permitted Installation:***

Gower Works

Carlisle Street

Sheffield

S4 7LJ

***Holding Company:***

Europa Engineering Ltd

Bay 3 Ruscon Works

Rotherham Road Parkgate

Rotherham

South Yorkshire

S62 6EZ

**Talking to Us**

Any communication with Sheffield City Council should be made to the following address quoting the Permit Number:

**Environmental Protection Service**

**Sheffield City Council**

**2-10 Carbrook Hall Road**

**Carbrook**

**Sheffield**

**S9 2DB**

**Telephone: 0114 273 4651**

Alternatively Email: [epsadmin@sheffield.gov.uk](mailto:epsadmin@sheffield.gov.uk)

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**Explanatory Note to Pollution Prevention and Control Permit for Part B Installations.**  
**(This note does not form a part of the Permit)**

The following Permit is issued under Regulation 13 of the Environmental Permitting (England and Wales) Regulations 2007 (S.I. 2008 No.3538), as amended, (“the EP Regulations”) to operate an installation carrying out activities covered by the description in section 2.2, Chapter 2 of Schedule 1 of those Regulations, to the extent authorised by the Permit:

**Process Changes**

Under the provisions of Regulation 69 of the EP Regulations, you are required to notify the Council of any proposed change in operation at least 14 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. Failure to do so is an offence.

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(1) of the EP Regulations. Additionally, if this involves a SUBSTANTIAL CHANGE to the installation you will be required to submit an application, pay the relevant fee and advertise the application accordingly. You may serve a Notice on the Council requesting that they determine whether any change that is proposed would constitute a substantial change before you proceed with application.

**Variations to the Permit**

The Permit may be varied in the future (by the Council serving a Variation Notice on the Operator). If the Operator itself wants any of the Conditions of the Permit to be changed, a formal Application must be submitted.

**Surrender of the Permit**

Where the operator of a Part B installation or mobile plant ceases or intends to cease the operation of the activity the operator may notify the regulator of the surrender of the whole permit, in any other case, notify the regulator of the surrender of the permit in so far as it authorises the operation of the installation or mobile plant which he/she has ceased or intends to cease operating. The notification shall contain information as described in Regulation 24 or 25 of the EP Regulations.

**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 Regulation 21 of the EP Regulations. A transfer will be allowed unless Sheffield City Council considers that the proposed holder will not be

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the person who will have control over the operation of the installation or will not ensure compliance with the conditions of the transferred Permit.

### **Annual Subsistence Fee**

In accordance with Regulation 65 of the EP Regulations, the holder of a permit is required to pay a fee for the subsistence of the Permit. This fee is payable annually on 1st April. You are advised that under the provisions of Regulation 65 (5) of the EP Regulations, if you fail to pay the fee due promptly, Sheffield City Council may revoke the Permit. You will be contacted separately each year in respect to this payment.

### **Public Register**

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Tel: 0114 273 4651

### **Confidentiality**

Sheffield City Council has a duty to consider the question of confidentiality of information supplied to it. If any information supplied is considered confidential, a statement of which information this applies to and the reasons why it is considered confidential should be specified. The Operator is reminded that he may apply to Sheffield City Council for the exclusion of information from the public register under the provisions of the Environmental Permitting (England and Wales) Regulations 2007 as amended.

### **Appeals**

Under Regulation 31 of the EP Regulations operators have the right of appeal against the conditions attached to their permit. Schedule 6 of the EP Regulations sets out the detailed procedures.

Appeals against a Variation Notice do not have the effect of suspending the operation of the Notice. Appeals do not have the effect of suspending Permit conditions.

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

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## How to Appeal

There are no forms or charges for appealing. However, 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  
Environmental Appeals Administration  
Room 4/19 - Eagle Wing  
Temple Quay House  
2 The Square  
Temple Quay  
Bristol BS1 6PN**

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.

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## **Description of Activities**

Brass Founders Sheffield operate as a non-ferrous foundry and specialist engineers, using copper base alloys, aluminium and white metal alloys for the supply and machining of castings to various industries with a maximum melting capacity of 1.8 tonnes. The factory is located at Carlisle St in an industrial area of Sheffield as indicated on the plan in Schedule 1 of this Permit.

The process consists of melting of copper, zinc, tin and aluminium ingots and scrap returns produced on site in Large Moulding, Aluminium Die Casting and Small Moulding areas. Sand moulds are prepared on site using a mixture of new sand and sand reclaimed from casting knock-out. Products are finished by fettling and grinding. These activities are described below, and are located as indicated on the layout shown in Schedule 2 of this Permit.

### ***Large Moulding***

This area comprises 4 x Electric Rayne Induction Furnaces having a capacity of 1 x 350 kg, 2 x 750 kg and 1 x 500 kg. These are powered by 2 power packs and only 2 can be in operation at any one time. The fumes from the melting process are not extracted to atmosphere but are fugitive within the foundry.

Molten metal is cast into silica sand moulds manufactured by the mixing of sands, catalysts and alpha set resins in a sand mixer. The moulds are dressed with isopropanol based coatings.

Casting fumes are not extracted to atmosphere but are fugitive within the foundry.

### ***Aluminium Die Casting Shop***

This area comprises 1 x gas fired furnace with a capacity of 350 kg and 2 x aluminium electric induction furnaces having a capacity of 250 kg each. Products of combustion only, not melting fume, from the gas fired furnace are extracted directly to atmosphere via ducting.

Molten metal is cast into cast iron die moulds and dressed with a releasing agent.

Casting and melting fumes are not extracted to atmosphere but are fugitive within the foundry area.

### ***Small Side***

This area comprises 1 x Radyne twin pop up (one on-one off) electric induction furnace having a capacity of 60 kg. Molten metal is cast into green sand moulds manufactured by hand mixing inside moulding boxes, or air set sand moulds manufactured using silica sand and alphaset resins. The moulds are dressed with isopropanol based coatings. Casting and melting fumes from this area are not extracted to atmosphere but are fugitive within the foundry area.

The operator has plans to install a secondary 60 kg drop coil furnace, as a back up to the Radyne pop-up furnace. This should be complete by the end of 2008.

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### ***Sand Reclaim***

Reclamation of silica sand from both the large and small foundry sides takes place in an Omega sand reclaimer plant with the extraction of emissions to a bag filter that exhausts internally. There are no direct emissions to atmosphere from this plant.

Reclaimed sand is mixed with new sand. New sand is delivered to a silo which is fitted with a bag filter exhausting to atmosphere.

### ***Fettling Shop***

Castings are shotblasted in a Pangborn shot blasting machine. Particulate matter emissions from this plant are extracted to a dry bag filter that exhausts internally. There are no direct emissions to atmosphere from this plant.

Castings are fettled in a fettling booth. Particulate matter emissions from this plant are extracted to a dry bag filter that discharges to internal atmosphere. There are no direct emissions to atmosphere from this plant.

Castings are finished using large and small static radiacs and a double pedestal grinder. Particulate matter emissions from this plant are extracted to a wet arrestor that exhausts through secondary filters internally within the foundry. There are no direct emissions to atmosphere from this plant.

The description of activities includes all ancillary operations such as the storage of raw materials in three sand hoppers located externally on the roof, the storage and handling of wastes and the disposal of final products.

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## **Section 1 – Upgrading**

- 1.1 There are currently no works of upgrading required by this Permit.

## **Section 2 – Production Capacity**

- 2.1 The installation shall produce less than twenty tonnes per day of finished product.
- 2.2 The Permit holder shall maintain a record of production to demonstrate compliance with condition 2.1 of the permit. The record shall include the total weight of castings and the total weight of finished product in tonnes. The record shall be kept in a log book on site in accordance with condition 4.3 and be available for inspection by officers of Sheffield City Council's Environmental Protection Service.

## **Section 3 – Emission Limits and Controls**

- 3.1 All emissions to air arising in normal operating conditions, including charging and pouring, shall be free from persistent visible emissions and droplets, excluding condensed water vapour.
- 3.2 There shall be no burning in the open air in connection with the activities within the installation boundary.
- 3.3 Emissions for combustion processes shall be free from visible smoke under normal operating conditions, and in any case shall not exceed the equivalent of Ringlemann Shade 1 as described in British Standard BS 2742:1969.
- 3.4 All reasonably practicable steps shall be taken to minimise the duration and visibility of visible emissions during start-up and shut-down and changes of fuel or combustion load.
- 3.5 There shall be no offensive odour detectable beyond the site boundary, as perceived by an authorised officer of Sheffield City Council's Environmental Protection Service.

## **Section 4 – Monitoring, Sampling and Measurement of Emissions**

- 4.1 The Permit holder shall ensure that a visual assessment of fugitive fume and dust emissions from the building housing the melting process is carried out at least once a day when molten metal is being cast. The duration of the assessment shall be for a minimum of one minute. All results of observations shall be recorded in the log book kept in accordance with condition 4.3.

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- 4.2 The Permit holder shall ensure that adverse results from the assessments carried out in accordance with conditions 4.1 are investigated immediately to identify the cause of the emission and allow the appropriate corrective action to be taken. The corrective action taken shall be recorded in the log book kept in accordance with Condition 4.3.
- 4.3 The Permit holder shall ensure that a log book containing the details and results of all visual assessments and records of all inspections and observations made in accordance with condition 2.2, 4.1, 4.2, 4.4, 5.1, 5.3, 5.5 and 6.1 is kept. These records shall include the time and date of inspection, the nature, colour, persistency and intensity of any emission and the name of the person carrying out the assessment. The log book shall be kept on the premises and made available for inspection by authorised officers of Sheffield City Council's Environmental Protection Service. Such records shall be kept for a minimum of two years and shall be furnished in writing to Sheffield City Council on demand.
- 4.4 In any case of abnormal emissions the operator shall:
- Identify the cause of the emissions and take corrective action immediately;
  - Adjust the process or activity to minimise the emissions;
  - Record details of the incident describing the nature and extent of the problems and the remedial actions taken in the log book.
- 4.5 The Permit holder shall inform Sheffield City Council's Environmental Protection Service within one day in cases where:
- An emission is likely to have an effect on neighbouring premises; or
  - There is a failure of any arrestment plant.

The report to Sheffield City Council's Environmental Protection Service shall include:

- The date and time of the incident;
- The cause and nature of the incident;
- Details of any abnormal emissions;
- Remedial action taken.

## **Section 5 – Sand Silos**

- 5.1 The Permit holder shall ensure that a visual assessment of emissions from the sand silos, bag filters and delivery pipes shall be undertaken for a period of at least the first and last five minutes during all bulk deliveries. Any adverse emissions shall be investigated immediately and rectified. The results of these visual assessments and the start and finish time of deliveries shall be recorded in the log book kept in accordance with condition 4.3.

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- 5.2 The bulk sand silo shall be vented to suitable bag filters to prevent emissions of particulate matter. These bags shall be of a sufficient size and kept clean to avoid over pressurisation during delivery. The silos shall also be fitted with a pressure relief valve, high-level indicator and audible alarm to warn of overfilling.
  - 5.3 The Permit holder shall ensure that a visual inspection of the sand silo bag filters, high level alarms and pressure relief valves is carried out at least once a month for any signs of wear, tear or damage. Any damage shall be repaired as soon as possible and prior to another delivery taking place. All inspections including any remedial action taken shall be recorded in the log book kept in accordance with condition 4.3 of this permit.
  - 5.4 During pressure tanker delivery into silos, the silos shall not be charged at such a rate exceeding that prescribed by the filter manufacturer in order to prevent causing any visible emissions of materials from any part of the silos or filters.
  - 5.5 All new or replacement silo filtration plant shall be designed to operate to an emission standard of less than 10mg/m<sup>3</sup> for particulate matter.

## **Section 6 – Maintenance of Abatement Plant**

- 6.1 The Permit holder shall ensure that the arrestment plant concerned with the control of emissions to air, such as the sand silo filters, shall be inspected at least once per month and is serviced at least once in every 12 month period to ensure sound operation. Details of the servicing or maintenance shall be recorded in the log book kept in accordance with condition 4.3.
- 6.2 Essential spares and consumables such as replacement filter bags, shall be stored on site or be readily available to rectify break downs rapidly.

## **Section 7 – Materials Handling**

- 7.1 Materials likely to generate particulate matter shall be unloaded, handled, transported and stored in such a manner that the emission of particulate matter to the air is prevented or, where not practicable, minimised and rendered harmless.
- 7.2 Stocks of dusty, or potentially dusty materials, including waste sand shall be stored in enclosed areas of the site, or under cover or shall be treated with water in order to minimise wind whipping of particulate matter.

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- 7.3 The Permit holder shall ensure that any spillage of particulate materials is cleaned up immediately by a wet method or vacuum cleaning in order to minimise particulate matter emissions to air. Dry sweeping is not permitted where it may result in the generation of airborne particulate matter to air outside any building.
  - 7.4 Arrested particulate matter from the filters serving the abatement plant storage silos shall be collected into heavy duty bags or containers which shall be sealed before being deposited in the waste skip in order to minimise emissions of particulate matter.
  - 7.5 All potentially dusty materials shall be stored in covered containers or under cover.

### **Section 8 – Chimneys, Exhausts and Vents**

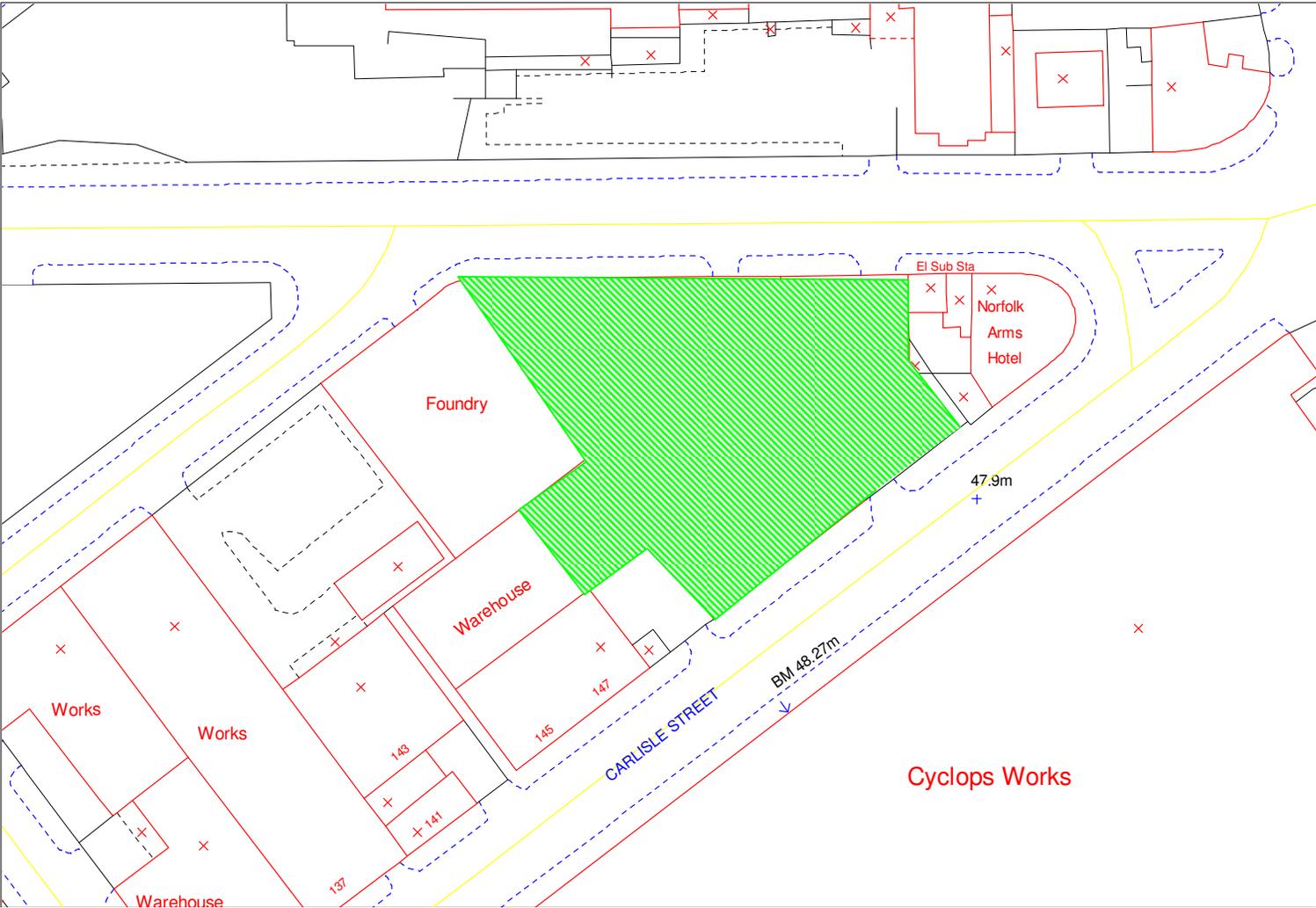
- 8.1 Process vents shall not be fitted with any restriction at the final opening, for example, a plate, cap or cowl.

### **Section 9 – General Conditions**

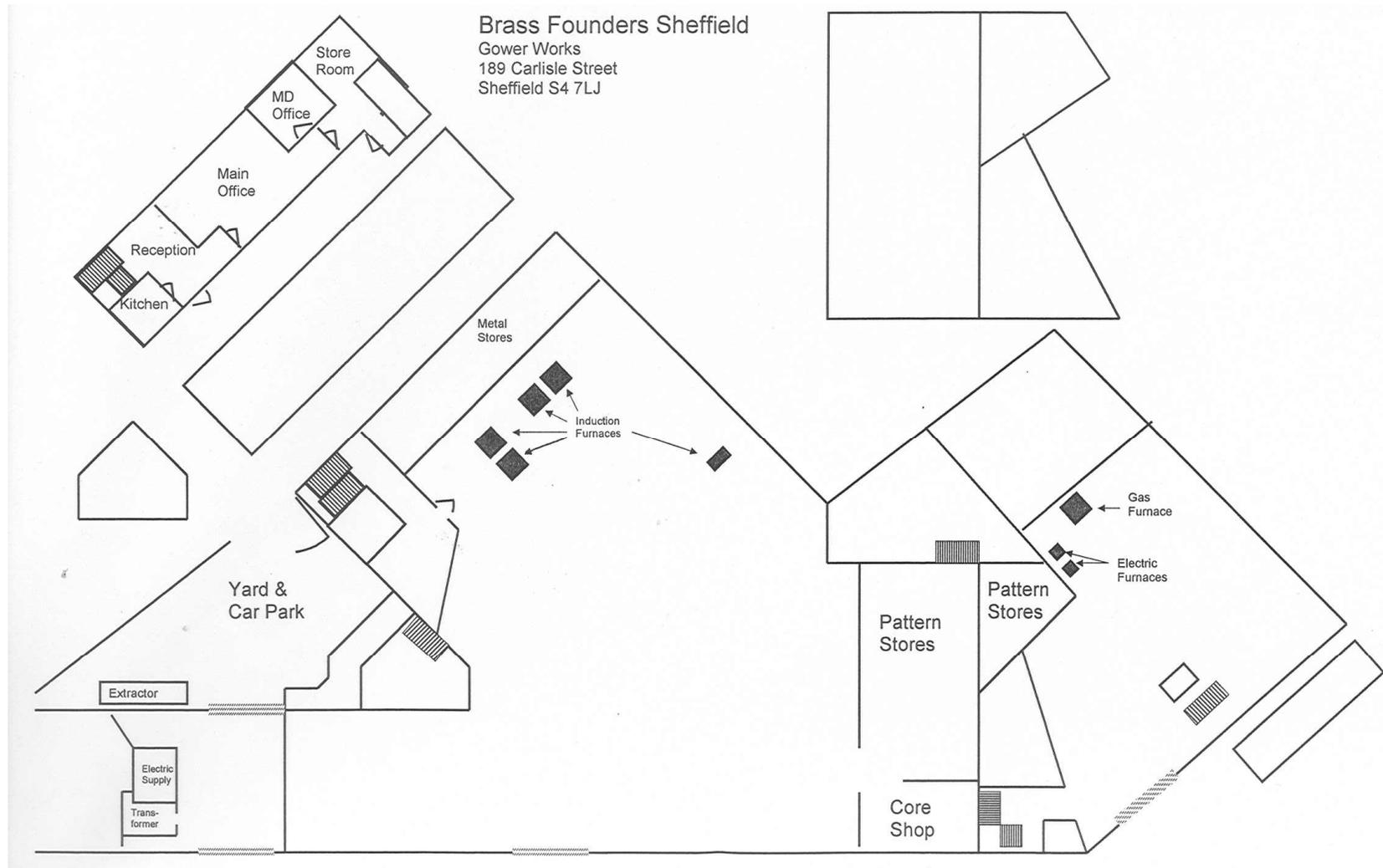
- 9.1 External surfaces of the process buildings, ancillary plant and open yards and storage areas shall be inspected annually and cleaned if necessary to prevent the accumulation of dusty material in circumstances where dust may become wind entrained. Particular attention shall be paid to roofs, guttering, roadways, external storage areas and yards. Cleaning operations shall be carried out by vacuum or wet sweeping methods in order to minimise emissions of particulate matter to air.
- 9.2 The activities shall be carried out within the areas indicated by shading on the plan in Schedule 1 to this Permit.
- 9.3 The layout of process and abatement plant shall be as indicated in Schedule 2 to this Permit.
- 9.4 The Permit Holder shall inform Sheffield City Council's Environmental Protection Service of any proposed changes to the installation which may have an impact on the emissions to atmosphere.

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- 9.5 Staff at all levels shall receive training and instructions necessary for their duties and shall include the following:
- Responsibilities under the permit;
  - Minimisation of emissions at start up and shut down;
  - Actions during abnormal emissions including minimisation of emissions.
- 9.6 The Permit holder shall keep and maintain a statement of training requirements for each operational post and keep a record of the training received by each employee whose actions may have an impact on emissions to atmosphere. These documents shall be made available to Sheffield City Council's Environmental Protection Service upon request.
- 9.7 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.

Schedule 1 – Installation Location



## Schedule 2 – Installation Layout





**POLLUTION PREVENTION AND CONTROL ACT 1999  
ENVIRONMENTAL PERMITTING REGULATIONS 2007**

**Permit Number: 2.2/049995/JT**

**Installation Address:**

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Signed

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Dated this day: *10 July 2008*

**Assistant Manager  
Authorised by Sheffield City Council to sign on their behalf**

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***Name & Address of Operator:***

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Gower Works  
Carlisle Street  
Sheffield  
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Contact: Mick Goodwin, Tel: 0114 2727 557; 07917 658 522

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### ***Large Moulding***

This area comprises 4 x Electric Rayne Induction Furnaces having a capacity of 1 x 350 kg, 2 x 750 kg and 1 x 500 kg. These are powered by 2 power packs and only 2 can be in operation at any one time. The fumes from the melting process are not extracted to atmosphere but are fugitive within the foundry.

Molten metal is cast into silica sand moulds manufactured by the mixing of sands, catalysts and alpha set resins in a sand mixer. The moulds are dressed with isopropanol based coatings.

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### ***Small Side***

This area comprises 1 x Radyne twin pop up (one on-one off) electric induction furnace having a capacity of 60 kg. Molten metal is cast into green sand moulds manufactured by hand mixing inside moulding boxes, or air set sand moulds manufactured using silica sand and alphaset resins. The moulds are dressed with isopropanol based coatings. Casting and melting fumes from this area are not extracted to atmosphere but are fugitive within the foundry area.

The operator has plans to install a secondary 60 kg drop coil furnace, as a back up to the Radyne pop-up furnace. This should be complete by the end of 2008.

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Reclamation of silica sand from both the large and small foundry sides takes place in an Omega sand reclaimer plant with the extraction of emissions to a bag filter that exhausts internally. There are no direct emissions to atmosphere from this plant.

Reclaimed sand is mixed with new sand. New sand is delivered to a silo which is fitted with a bag filter exhausting to atmosphere.

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Castings are shotblasted in a Pangborn shot blasting machine. Particulate matter emissions from this plant are extracted to a dry bag filter that exhausts internally. There are no direct emissions to atmosphere from this plant.

Castings are fettled in a fettling booth. Particulate matter emissions from this plant are extracted to a dry bag filter that discharges to internal atmosphere. There are no direct emissions to atmosphere from this plant.

Castings are finished using large and small static radiacs and a double pedestal grinder. Particulate matter emissions from this plant are extracted to a wet arrestor that exhausts through secondary filters internally within the foundry. There are no direct emissions to atmosphere from this plant.

The description of activities includes all ancillary operations such as the storage of raw materials in three sand hoppers located externally on the roof, the storage and handling of wastes and the disposal of final products.

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## **Section 1 – Upgrading**

- 1.1 There are currently no works of upgrading required by this Permit.

## **Section 2 – Production Capacity**

- 2.1 The installation shall produce less than twenty tonnes per day of finished product.
- 2.2 The Permit holder shall maintain a record of production to demonstrate compliance with condition 2.1 of the permit. The record shall include the total weight of castings and the total weight of finished product in tonnes. The record shall be kept in a log book on site in accordance with condition 4.3 and be available for inspection by officers of Sheffield City Council's Environmental Protection Service.

## **Section 3 – Emission Limits and Controls**

- 3.1 All emissions to air arising in normal operating conditions, including charging and pouring, shall be free from persistent visible emissions and droplets, excluding condensed water vapour.
- 3.2 There shall be no burning in the open air in connection with the activities within the installation boundary.
- 3.3 Emissions for combustion processes shall be free from visible smoke under normal operating conditions, and in any case shall not exceed the equivalent of Ringlemann Shade 1 as described in British Standard BS 2742:1969.
- 3.4 All reasonably practicable steps shall be taken to minimise the duration and visibility of visible emissions during start-up and shut-down and changes of fuel or combustion load.
- 3.5 There shall be no offensive odour detectable beyond the site boundary, as perceived by an authorised officer of Sheffield City Council's Environmental Protection Service.

## **Section 4 – Monitoring, Sampling and Measurement of Emissions**

- 4.1 The Permit holder shall ensure that a visual assessment of fugitive fume and dust emissions from the building housing the melting process is carried out at least once a day when molten metal is being cast. The duration of the assessment shall be for a minimum of one minute. All results of observations shall be recorded in the log book kept in accordance with condition 4.3.

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- 4.2 The Permit holder shall ensure that adverse results from the assessments carried out in accordance with conditions 4.1 are investigated immediately to identify the cause of the emission and allow the appropriate corrective action to be taken. The corrective action taken shall be recorded in the log book kept in accordance with Condition 4.3.
- 4.3 The Permit holder shall ensure that a log book containing the details and results of all visual assessments and records of all inspections and observations made in accordance with condition 2.2, 4.1, 4.2, 4.4, 5.1, 5.3, 5.5 and 6.1 is kept. These records shall include the time and date of inspection, the nature, colour, persistency and intensity of any emission and the name of the person carrying out the assessment. The log book shall be kept on the premises and made available for inspection by authorised officers of Sheffield City Council's Environmental Protection Service. Such records shall be kept for a minimum of two years and shall be furnished in writing to Sheffield City Council on demand.
- 4.4 In any case of abnormal emissions the operator shall:
- Identify the cause of the emissions and take corrective action immediately;
  - Adjust the process or activity to minimise the emissions;
  - Record details of the incident describing the nature and extent of the problems and the remedial actions taken in the log book.
- 4.5 The Permit holder shall inform Sheffield City Council's Environmental Protection Service within one day in cases where:
- An emission is likely to have an effect on neighbouring premises; or
  - There is a failure of any arrestment plant.

The report to Sheffield City Council's Environmental Protection Service shall include:

- The date and time of the incident;
- The cause and nature of the incident;
- Details of any abnormal emissions;
- Remedial action taken.

## **Section 5 – Sand Silos**

- 5.1 The Permit holder shall ensure that a visual assessment of emissions from the sand silos, bag filters and delivery pipes shall be undertaken for a period of at least the first and last five minutes during all bulk deliveries. Any adverse emissions shall be investigated immediately and rectified. The results of these visual assessments and the start and finish time of deliveries shall be recorded in the log book kept in accordance with condition 4.3.

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- 5.2 The bulk sand silo shall be vented to suitable bag filters to prevent emissions of particulate matter. These bags shall be of a sufficient size and kept clean to avoid over pressurisation during delivery. The silos shall also be fitted with a pressure relief valve, high-level indicator and audible alarm to warn of overfilling.
  - 5.3 The Permit holder shall ensure that a visual inspection of the sand silo bag filters, high level alarms and pressure relief valves is carried out at least once a month for any signs of wear, tear or damage. Any damage shall be repaired as soon as possible and prior to another delivery taking place. All inspections including any remedial action taken shall be recorded in the log book kept in accordance with condition 4.3 of this permit.
  - 5.4 During pressure tanker delivery into silos, the silos shall not be charged at such a rate exceeding that prescribed by the filter manufacturer in order to prevent causing any visible emissions of materials from any part of the silos or filters.
  - 5.5 All new or replacement silo filtration plant shall be designed to operate to an emission standard of less than 10mg/m<sup>3</sup> for particulate matter.

## **Section 6 – Maintenance of Abatement Plant**

- 6.1 The Permit holder shall ensure that the arrestment plant concerned with the control of emissions to air, such as the sand silo filters, shall be inspected at least once per month and is serviced at least once in every 12 month period to ensure sound operation. Details of the servicing or maintenance shall be recorded in the log book kept in accordance with condition 4.3.
- 6.2 Essential spares and consumables such as replacement filter bags, shall be stored on site or be readily available to rectify break downs rapidly.

## **Section 7 – Materials Handling**

- 7.1 Materials likely to generate particulate matter shall be unloaded, handled, transported and stored in such a manner that the emission of particulate matter to the air is prevented or, where not practicable, minimised and rendered harmless.
- 7.2 Stocks of dusty, or potentially dusty materials, including waste sand shall be stored in enclosed areas of the site, or under cover or shall be treated with water in order to minimise wind whipping of particulate matter.

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- 7.3 The Permit holder shall ensure that any spillage of particulate materials is cleaned up immediately by a wet method or vacuum cleaning in order to minimise particulate matter emissions to air. Dry sweeping is not permitted where it may result in the generation of airborne particulate matter to air outside any building.
  - 7.4 Arrested particulate matter from the filters serving the abatement plant storage silos shall be collected into heavy duty bags or containers which shall be sealed before being deposited in the waste skip in order to minimise emissions of particulate matter.
  - 7.5 All potentially dusty materials shall be stored in covered containers or under cover.

### **Section 8 – Chimneys, Exhausts and Vents**

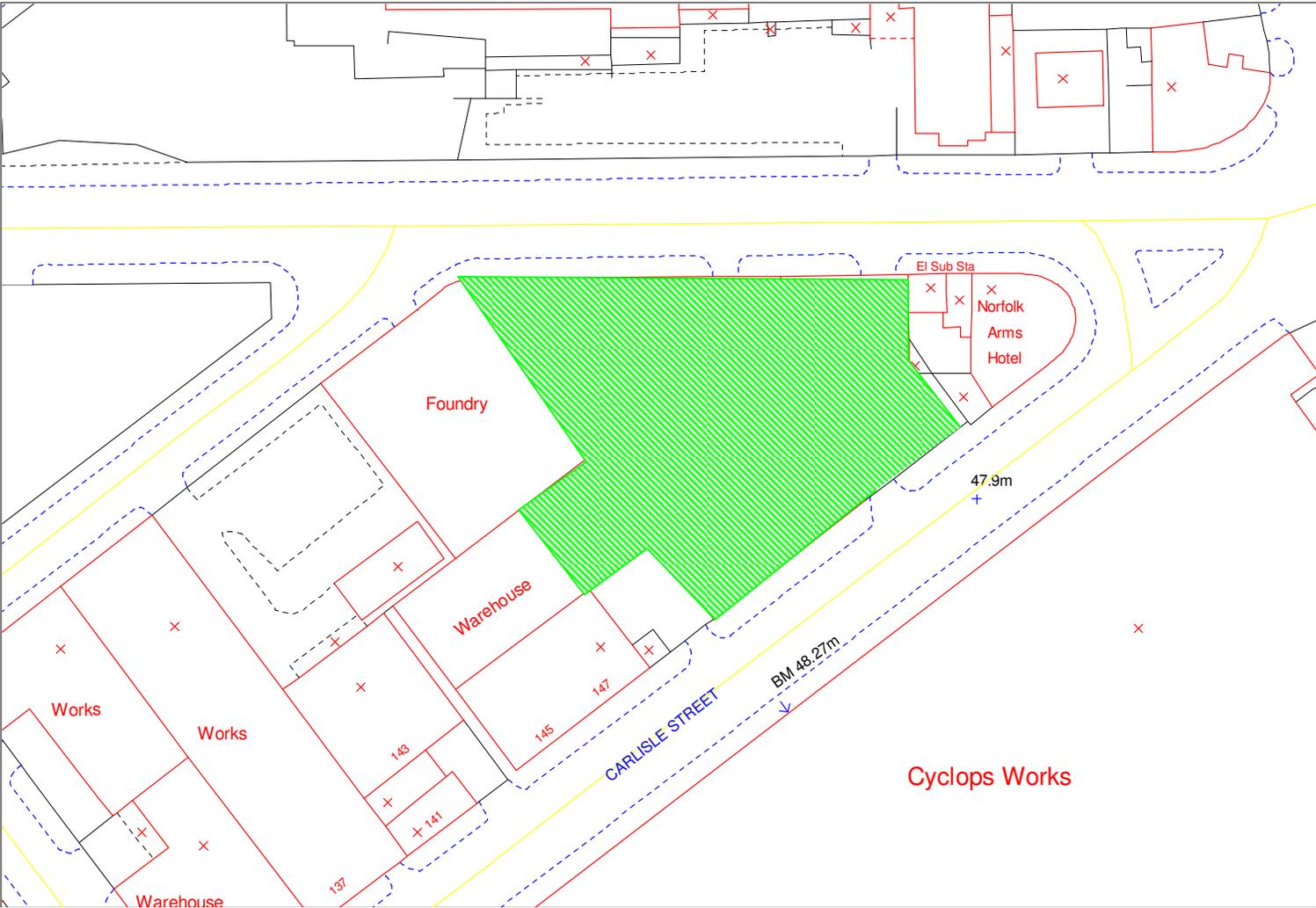
- 8.1 Process vents shall not be fitted with any restriction at the final opening, for example, a plate, cap or cowl.

### **Section 9 – General Conditions**

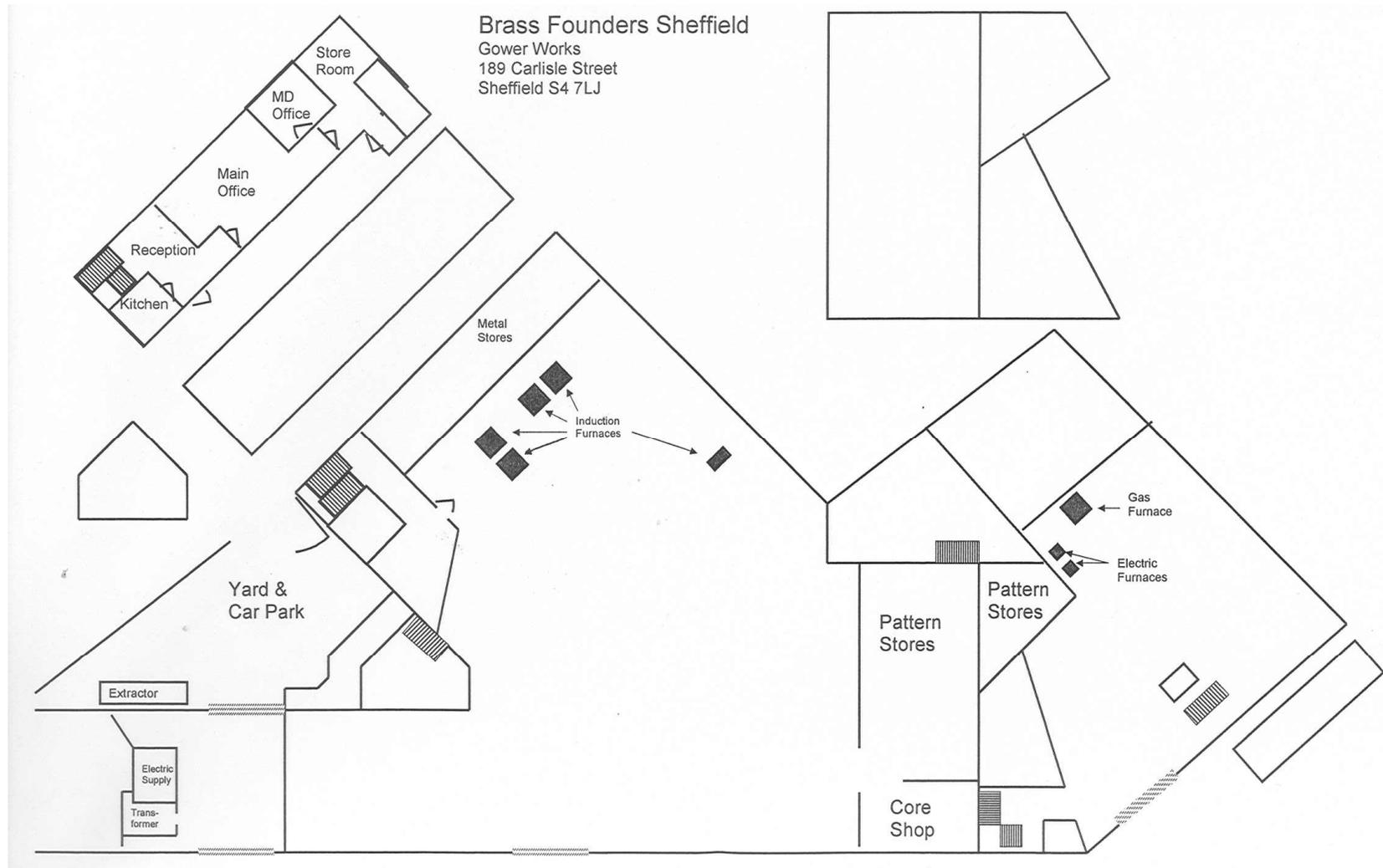
- 9.1 External surfaces of the process buildings, ancillary plant and open yards and storage areas shall be inspected annually and cleaned if necessary to prevent the accumulation of dusty material in circumstances where dust may become wind entrained. Particular attention shall be paid to roofs, guttering, roadways, external storage areas and yards. Cleaning operations shall be carried out by vacuum or wet sweeping methods in order to minimise emissions of particulate matter to air.
- 9.2 The activities shall be carried out within the areas indicated by shading on the plan in Schedule 1 to this Permit.
- 9.3 The layout of process and abatement plant shall be as indicated in Schedule 2 to this Permit.
- 9.4 The Permit Holder shall inform Sheffield City Council's Environmental Protection Service of any proposed changes to the installation which may have an impact on the emissions to atmosphere.

- 
- 9.5 Staff at all levels shall receive training and instructions necessary for their duties and shall include the following:
- Responsibilities under the permit;
  - Minimisation of emissions at start up and shut down;
  - Actions during abnormal emissions including minimisation of emissions.
- 9.6 The Permit holder shall keep and maintain a statement of training requirements for each operational post and keep a record of the training received by each employee whose actions may have an impact on emissions to atmosphere. These documents shall be made available to Sheffield City Council's Environmental Protection Service upon request.
- 9.7 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.

Schedule 1 – Installation Location



## Schedule 2 – Installation Layout





**POLLUTION PREVENTION AND CONTROL ACT 1999  
ENVIRONMENTAL PERMITTING REGULATIONS 2007**

**Permit Number: 2.2/049995/JT**

**Installation Address:**

Brass Founders Sheffield  
Gower Works  
Gower Street  
Sheffield  
S4 7LJ

**In accordance with Regulation 13 of the Environmental Permitting (England and Wales) Regulations 2007 as amended, Europa Engineering Ltd trading as Brass Founders Sheffield is hereby permitted to operate a scheduled activity at the address detailed above, namely the melting, including making alloys, of non-ferrous metals as described in Schedule 1, Part 2, Chapter 2, Section 2.2, Part B, subsection (a) and subject to the following conditions of this Permit.**

Signed

A handwritten signature in black ink, appearing to be "A. J. H.", written over a horizontal line.

Dated this day: *10 July 2008*

**Assistant Manager  
Authorised by Sheffield City Council to sign on their behalf**

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The following Secretary of States Guidance Notes have provided the framework for the conditions in this Permit:

PG 2/3 "Electrical, Rotary, Crucible and Reverberatory Furnaces"

PG 2/4 "Iron, Steel and Non Ferrous Metal Foundry Processes"

PG 2/7 "Zinc and Zinc Alloy Processes"

PG 2/8 "Copper and Copper Alloy Processes"

***Name & Address of Operator:***

Brass Founders Sheffield

Gower Works

Carlisle Street

Sheffield

S4 7LJ

Contact: Mick Goodwin, Tel: 0114 2727 557; 07917 658 522

***Address of Permitted Installation:***

Gower Works

Carlisle Street

Sheffield

S4 7LJ

***Holding Company:***

Europa Engineering Ltd

Bay 3 Ruscon Works

Rotherham Road Parkgate

Rotherham

South Yorkshire

S62 6EZ

**Talking to Us**

Any communication with Sheffield City Council should be made to the following address quoting the Permit Number:

**Environmental Protection Service**

**Sheffield City Council**

**2-10 Carbrook Hall Road**

**Carbrook**

**Sheffield**

**S9 2DB**

**Telephone: 0114 273 4651**

Alternatively Email: [epsadmin@sheffield.gov.uk](mailto:epsadmin@sheffield.gov.uk)

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**Explanatory Note to Pollution Prevention and Control Permit for Part B Installations.**  
**(This note does not form a part of the Permit)**

The following Permit is issued under Regulation 13 of the Environmental Permitting (England and Wales) Regulations 2007 (S.I. 2008 No.3538), as amended, (“the EP Regulations”) to operate an installation carrying out activities covered by the description in section 2.2, Chapter 2 of Schedule 1 of those Regulations, to the extent authorised by the Permit:

**Process Changes**

Under the provisions of Regulation 69 of the EP Regulations, you are required to notify the Council of any proposed change in operation at least 14 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. Failure to do so is an offence.

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(1) of the EP Regulations. Additionally, if this involves a SUBSTANTIAL CHANGE to the installation you will be required to submit an application, pay the relevant fee and advertise the application accordingly. You may serve a Notice on the Council requesting that they determine whether any change that is proposed would constitute a substantial change before you proceed with application.

**Variations to the Permit**

The Permit may be varied in the future (by the Council serving a Variation Notice on the Operator). If the Operator itself wants any of the Conditions of the Permit to be changed, a formal Application must be submitted.

**Surrender of the Permit**

Where the operator of a Part B installation or mobile plant ceases or intends to cease the operation of the activity the operator may notify the regulator of the surrender of the whole permit, in any other case, notify the regulator of the surrender of the permit in so far as it authorises the operation of the installation or mobile plant which he/she has ceased or intends to cease operating. The notification shall contain information as described in Regulation 24 or 25 of the EP Regulations.

**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 Regulation 21 of the EP Regulations. A transfer will be allowed unless Sheffield City Council considers that the proposed holder will not be

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the person who will have control over the operation of the installation or will not ensure compliance with the conditions of the transferred Permit.

### **Annual Subsistence Fee**

In accordance with Regulation 65 of the EP Regulations, the holder of a permit is required to pay a fee for the subsistence of the Permit. This fee is payable annually on 1st April. You are advised that under the provisions of Regulation 65 (5) of the EP Regulations, if you fail to pay the fee due promptly, Sheffield City Council may revoke the Permit. You will be contacted separately each year in respect to this payment.

### **Public Register**

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

Environmental Protection Service  
Sheffield City Council  
2-10 Carbrook Hall Road  
Carbrook  
Sheffield  
S9 2DB

Tel: 0114 273 4651

### **Confidentiality**

Sheffield City Council has a duty to consider the question of confidentiality of information supplied to it. If any information supplied is considered confidential, a statement of which information this applies to and the reasons why it is considered confidential should be specified. The Operator is reminded that he may apply to Sheffield City Council for the exclusion of information from the public register under the provisions of the Environmental Permitting (England and Wales) Regulations 2007 as amended.

### **Appeals**

Under Regulation 31 of the EP Regulations operators have the right of appeal against the conditions attached to their permit. Schedule 6 of the EP Regulations sets out the detailed procedures.

Appeals against a Variation Notice do not have the effect of suspending the operation of the Notice. Appeals do not have the effect of suspending Permit conditions.

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

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## How to Appeal

There are no forms or charges for appealing. However, 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  
Environmental Appeals Administration  
Room 4/19 - Eagle Wing  
Temple Quay House  
2 The Square  
Temple Quay  
Bristol BS1 6PN**

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.

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## **Description of Activities**

Brass Founders Sheffield operate as a non-ferrous foundry and specialist engineers, using copper base alloys, aluminium and white metal alloys for the supply and machining of castings to various industries with a maximum melting capacity of 1.8 tonnes. The factory is located at Carlisle St in an industrial area of Sheffield as indicated on the plan in Schedule 1 of this Permit.

The process consists of melting of copper, zinc, tin and aluminium ingots and scrap returns produced on site in Large Moulding, Aluminium Die Casting and Small Moulding areas. Sand moulds are prepared on site using a mixture of new sand and sand reclaimed from casting knock-out. Products are finished by fettling and grinding. These activities are described below, and are located as indicated on the layout shown in Schedule 2 of this Permit.

### ***Large Moulding***

This area comprises 4 x Electric Rayne Induction Furnaces having a capacity of 1 x 350 kg, 2 x 750 kg and 1 x 500 kg. These are powered by 2 power packs and only 2 can be in operation at any one time. The fumes from the melting process are not extracted to atmosphere but are fugitive within the foundry.

Molten metal is cast into silica sand moulds manufactured by the mixing of sands, catalysts and alpha set resins in a sand mixer. The moulds are dressed with isopropanol based coatings.

Casting fumes are not extracted to atmosphere but are fugitive within the foundry.

### ***Aluminium Die Casting Shop***

This area comprises 1 x gas fired furnace with a capacity of 350 kg and 2 x aluminium electric induction furnaces having a capacity of 250 kg each. Products of combustion only, not melting fume, from the gas fired furnace are extracted directly to atmosphere via ducting.

Molten metal is cast into cast iron die moulds and dressed with a releasing agent.

Casting and melting fumes are not extracted to atmosphere but are fugitive within the foundry area.

### ***Small Side***

This area comprises 1 x Radyne twin pop up (one on-one off) electric induction furnace having a capacity of 60 kg. Molten metal is cast into green sand moulds manufactured by hand mixing inside moulding boxes, or air set sand moulds manufactured using silica sand and alphaset resins. The moulds are dressed with isopropanol based coatings. Casting and melting fumes from this area are not extracted to atmosphere but are fugitive within the foundry area.

The operator has plans to install a secondary 60 kg drop coil furnace, as a back up to the Radyne pop-up furnace. This should be complete by the end of 2008.

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### ***Sand Reclaim***

Reclamation of silica sand from both the large and small foundry sides takes place in an Omega sand reclaimer plant with the extraction of emissions to a bag filter that exhausts internally. There are no direct emissions to atmosphere from this plant.

Reclaimed sand is mixed with new sand. New sand is delivered to a silo which is fitted with a bag filter exhausting to atmosphere.

### ***Fettling Shop***

Castings are shotblasted in a Pangborn shot blasting machine. Particulate matter emissions from this plant are extracted to a dry bag filter that exhausts internally. There are no direct emissions to atmosphere from this plant.

Castings are fettled in a fettling booth. Particulate matter emissions from this plant are extracted to a dry bag filter that discharges to internal atmosphere. There are no direct emissions to atmosphere from this plant.

Castings are finished using large and small static radiacs and a double pedestal grinder. Particulate matter emissions from this plant are extracted to a wet arrestor that exhausts through secondary filters internally within the foundry. There are no direct emissions to atmosphere from this plant.

The description of activities includes all ancillary operations such as the storage of raw materials in three sand hoppers located externally on the roof, the storage and handling of wastes and the disposal of final products.

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## **Section 1 – Upgrading**

- 1.1 There are currently no works of upgrading required by this Permit.

## **Section 2 – Production Capacity**

- 2.1 The installation shall produce less than twenty tonnes per day of finished product.
- 2.2 The Permit holder shall maintain a record of production to demonstrate compliance with condition 2.1 of the permit. The record shall include the total weight of castings and the total weight of finished product in tonnes. The record shall be kept in a log book on site in accordance with condition 4.3 and be available for inspection by officers of Sheffield City Council's Environmental Protection Service.

## **Section 3 – Emission Limits and Controls**

- 3.1 All emissions to air arising in normal operating conditions, including charging and pouring, shall be free from persistent visible emissions and droplets, excluding condensed water vapour.
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- 4.1 The Permit holder shall ensure that a visual assessment of fugitive fume and dust emissions from the building housing the melting process is carried out at least once a day when molten metal is being cast. The duration of the assessment shall be for a minimum of one minute. All results of observations shall be recorded in the log book kept in accordance with condition 4.3.

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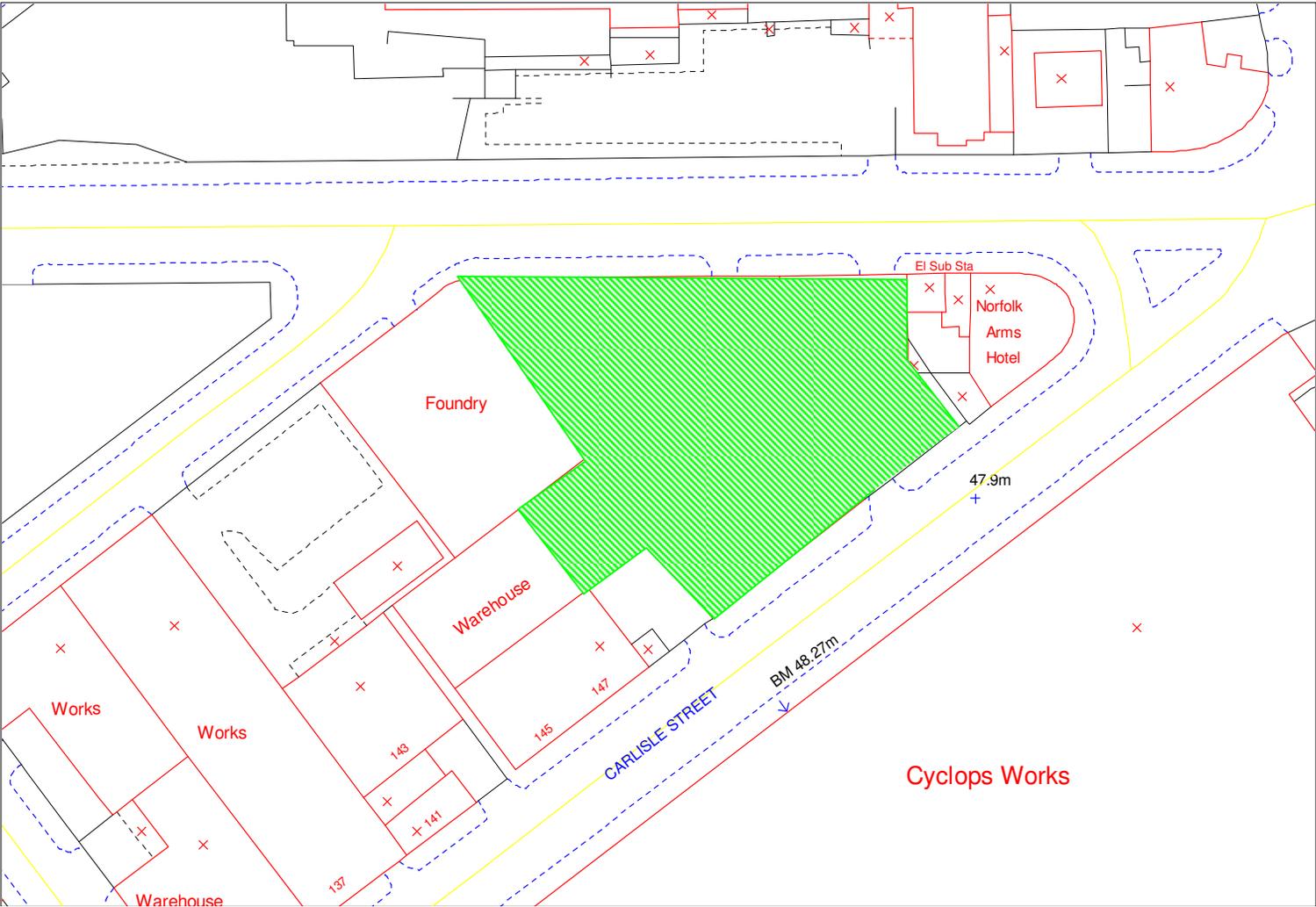
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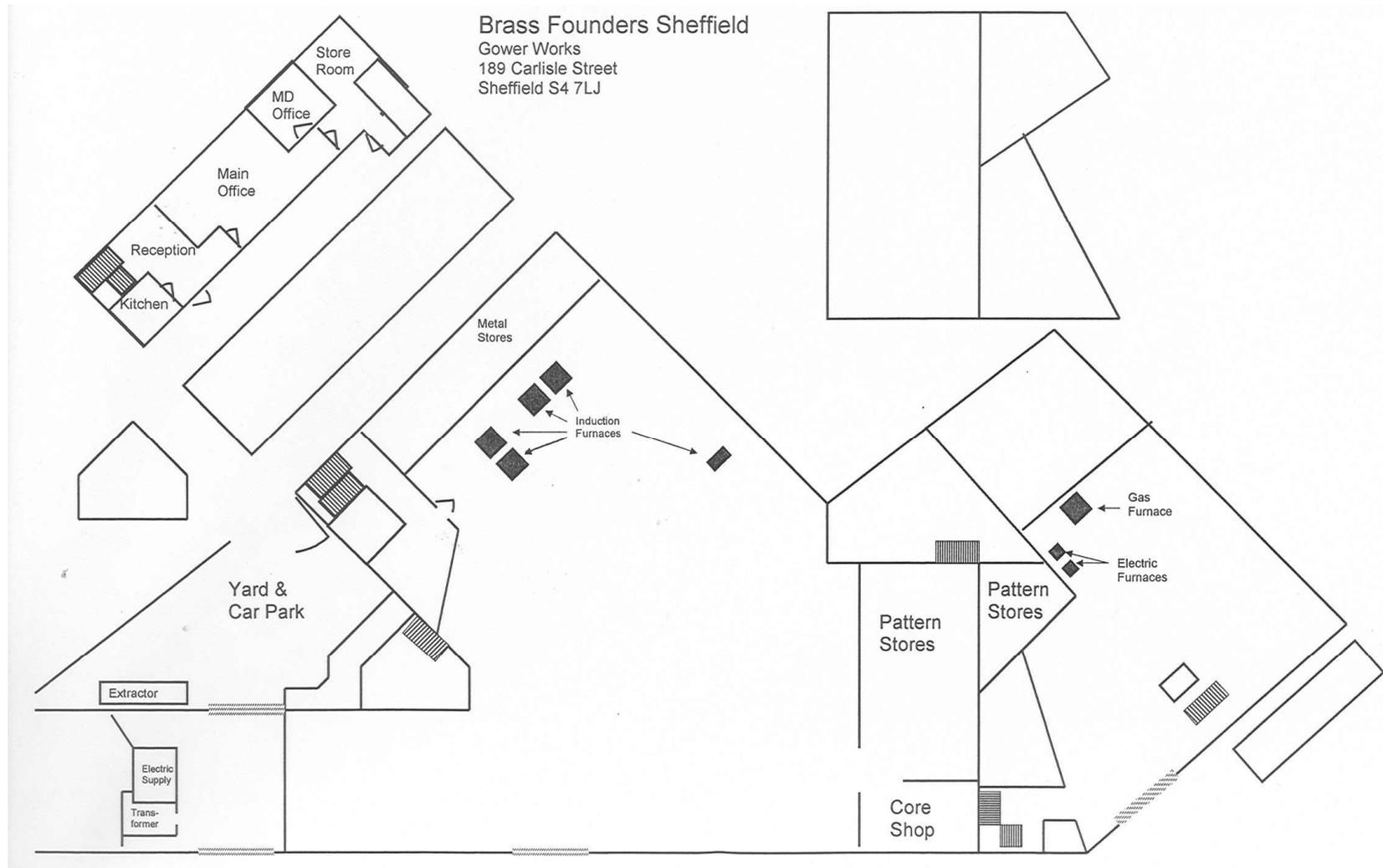
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Schedule 1 – Installation Location



## Schedule 2 – Installation Layout





**POLLUTION PREVENTION AND CONTROL ACT 1999  
ENVIRONMENTAL PERMITTING REGULATIONS 2007**

**Permit Number: 2.2/049995/JT**

**Installation Address:**

Brass Founders Sheffield  
Gower Works  
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Signed

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Dated this day: *10 July 2008*

**Assistant Manager  
Authorised by Sheffield City Council to sign on their behalf**

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The following Secretary of States Guidance Notes have provided the framework for the conditions in this Permit:

PG 2/3 "Electrical, Rotary, Crucible and Reverberatory Furnaces"

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***Name & Address of Operator:***

Brass Founders Sheffield

Gower Works

Carlisle Street

Sheffield

S4 7LJ

Contact: Mick Goodwin, Tel: 0114 2727 557; 07917 658 522

***Address of Permitted Installation:***

Gower Works

Carlisle Street

Sheffield

S4 7LJ

***Holding Company:***

Europa Engineering Ltd

Bay 3 Ruscon Works

Rotherham Road Parkgate

Rotherham

South Yorkshire

S62 6EZ

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**Explanatory Note to Pollution Prevention and Control Permit for Part B Installations.**  
**(This note does not form a part of the Permit)**

The following Permit is issued under Regulation 13 of the Environmental Permitting (England and Wales) Regulations 2007 (S.I. 2008 No.3538), as amended, (“the EP Regulations”) to operate an installation carrying out activities covered by the description in section 2.2, Chapter 2 of Schedule 1 of those Regulations, to the extent authorised by the Permit:

**Process Changes**

Under the provisions of Regulation 69 of the EP Regulations, you are required to notify the Council of any proposed change in operation at least 14 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. Failure to do so is an offence.

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(1) of the EP Regulations. Additionally, if this involves a SUBSTANTIAL CHANGE to the installation you will be required to submit an application, pay the relevant fee and advertise the application accordingly. You may serve a Notice on the Council requesting that they determine whether any change that is proposed would constitute a substantial change before you proceed with application.

**Variations to the Permit**

The Permit may be varied in the future (by the Council serving a Variation Notice on the Operator). If the Operator itself wants any of the Conditions of the Permit to be changed, a formal Application must be submitted.

**Surrender of the Permit**

Where the operator of a Part B installation or mobile plant ceases or intends to cease the operation of the activity the operator may notify the regulator of the surrender of the whole permit, in any other case, notify the regulator of the surrender of the permit in so far as it authorises the operation of the installation or mobile plant which he/she has ceased or intends to cease operating. The notification shall contain information as described in Regulation 24 or 25 of the EP Regulations.

**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 Regulation 21 of the EP Regulations. A transfer will be allowed unless Sheffield City Council considers that the proposed holder will not be

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the person who will have control over the operation of the installation or will not ensure compliance with the conditions of the transferred Permit.

### **Annual Subsistence Fee**

In accordance with Regulation 65 of the EP Regulations, the holder of a permit is required to pay a fee for the subsistence of the Permit. This fee is payable annually on 1st April. You are advised that under the provisions of Regulation 65 (5) of the EP Regulations, if you fail to pay the fee due promptly, Sheffield City Council may revoke the Permit. You will be contacted separately each year in respect to this payment.

### **Public Register**

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

Environmental Protection Service  
Sheffield City Council  
2-10 Carbrook Hall Road  
Carbrook  
Sheffield  
S9 2DB

Tel: 0114 273 4651

### **Confidentiality**

Sheffield City Council has a duty to consider the question of confidentiality of information supplied to it. If any information supplied is considered confidential, a statement of which information this applies to and the reasons why it is considered confidential should be specified. The Operator is reminded that he may apply to Sheffield City Council for the exclusion of information from the public register under the provisions of the Environmental Permitting (England and Wales) Regulations 2007 as amended.

### **Appeals**

Under Regulation 31 of the EP Regulations operators have the right of appeal against the conditions attached to their permit. Schedule 6 of the EP Regulations sets out the detailed procedures.

Appeals against a Variation Notice do not have the effect of suspending the operation of the Notice. Appeals do not have the effect of suspending Permit conditions.

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

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## How to Appeal

There are no forms or charges for appealing. However, 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  
Environmental Appeals Administration  
Room 4/19 - Eagle Wing  
Temple Quay House  
2 The Square  
Temple Quay  
Bristol BS1 6PN**

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.

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## **Description of Activities**

Brass Founders Sheffield operate as a non-ferrous foundry and specialist engineers, using copper base alloys, aluminium and white metal alloys for the supply and machining of castings to various industries with a maximum melting capacity of 1.8 tonnes. The factory is located at Carlisle St in an industrial area of Sheffield as indicated on the plan in Schedule 1 of this Permit.

The process consists of melting of copper, zinc, tin and aluminium ingots and scrap returns produced on site in Large Moulding, Aluminium Die Casting and Small Moulding areas. Sand moulds are prepared on site using a mixture of new sand and sand reclaimed from casting knock-out. Products are finished by fettling and grinding. These activities are described below, and are located as indicated on the layout shown in Schedule 2 of this Permit.

### ***Large Moulding***

This area comprises 4 x Electric Rayne Induction Furnaces having a capacity of 1 x 350 kg, 2 x 750 kg and 1 x 500 kg. These are powered by 2 power packs and only 2 can be in operation at any one time. The fumes from the melting process are not extracted to atmosphere but are fugitive within the foundry.

Molten metal is cast into silica sand moulds manufactured by the mixing of sands, catalysts and alpha set resins in a sand mixer. The moulds are dressed with isopropanol based coatings.

Casting fumes are not extracted to atmosphere but are fugitive within the foundry.

### ***Aluminium Die Casting Shop***

This area comprises 1 x gas fired furnace with a capacity of 350 kg and 2 x aluminium electric induction furnaces having a capacity of 250 kg each. Products of combustion only, not melting fume, from the gas fired furnace are extracted directly to atmosphere via ducting.

Molten metal is cast into cast iron die moulds and dressed with a releasing agent.

Casting and melting fumes are not extracted to atmosphere but are fugitive within the foundry area.

### ***Small Side***

This area comprises 1 x Radyne twin pop up (one on-one off) electric induction furnace having a capacity of 60 kg. Molten metal is cast into green sand moulds manufactured by hand mixing inside moulding boxes, or air set sand moulds manufactured using silica sand and alphaset resins. The moulds are dressed with isopropanol based coatings. Casting and melting fumes from this area are not extracted to atmosphere but are fugitive within the foundry area.

The operator has plans to install a secondary 60 kg drop coil furnace, as a back up to the Radyne pop-up furnace. This should be complete by the end of 2008.

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### ***Sand Reclaim***

Reclamation of silica sand from both the large and small foundry sides takes place in an Omega sand reclaimer plant with the extraction of emissions to a bag filter that exhausts internally. There are no direct emissions to atmosphere from this plant.

Reclaimed sand is mixed with new sand. New sand is delivered to a silo which is fitted with a bag filter exhausting to atmosphere.

### ***Fettling Shop***

Castings are shotblasted in a Pangborn shot blasting machine. Particulate matter emissions from this plant are extracted to a dry bag filter that exhausts internally. There are no direct emissions to atmosphere from this plant.

Castings are fettled in a fettling booth. Particulate matter emissions from this plant are extracted to a dry bag filter that discharges to internal atmosphere. There are no direct emissions to atmosphere from this plant.

Castings are finished using large and small static radiacs and a double pedestal grinder. Particulate matter emissions from this plant are extracted to a wet arrestor that exhausts through secondary filters internally within the foundry. There are no direct emissions to atmosphere from this plant.

The description of activities includes all ancillary operations such as the storage of raw materials in three sand hoppers located externally on the roof, the storage and handling of wastes and the disposal of final products.

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## **Section 1 – Upgrading**

- 1.1 There are currently no works of upgrading required by this Permit.

## **Section 2 – Production Capacity**

- 2.1 The installation shall produce less than twenty tonnes per day of finished product.
- 2.2 The Permit holder shall maintain a record of production to demonstrate compliance with condition 2.1 of the permit. The record shall include the total weight of castings and the total weight of finished product in tonnes. The record shall be kept in a log book on site in accordance with condition 4.3 and be available for inspection by officers of Sheffield City Council's Environmental Protection Service.

## **Section 3 – Emission Limits and Controls**

- 3.1 All emissions to air arising in normal operating conditions, including charging and pouring, shall be free from persistent visible emissions and droplets, excluding condensed water vapour.
- 3.2 There shall be no burning in the open air in connection with the activities within the installation boundary.
- 3.3 Emissions for combustion processes shall be free from visible smoke under normal operating conditions, and in any case shall not exceed the equivalent of Ringlemann Shade 1 as described in British Standard BS 2742:1969.
- 3.4 All reasonably practicable steps shall be taken to minimise the duration and visibility of visible emissions during start-up and shut-down and changes of fuel or combustion load.
- 3.5 There shall be no offensive odour detectable beyond the site boundary, as perceived by an authorised officer of Sheffield City Council's Environmental Protection Service.

## **Section 4 – Monitoring, Sampling and Measurement of Emissions**

- 4.1 The Permit holder shall ensure that a visual assessment of fugitive fume and dust emissions from the building housing the melting process is carried out at least once a day when molten metal is being cast. The duration of the assessment shall be for a minimum of one minute. All results of observations shall be recorded in the log book kept in accordance with condition 4.3.

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- 4.2 The Permit holder shall ensure that adverse results from the assessments carried out in accordance with conditions 4.1 are investigated immediately to identify the cause of the emission and allow the appropriate corrective action to be taken. The corrective action taken shall be recorded in the log book kept in accordance with Condition 4.3.
- 4.3 The Permit holder shall ensure that a log book containing the details and results of all visual assessments and records of all inspections and observations made in accordance with condition 2.2, 4.1, 4.2, 4.4, 5.1, 5.3, 5.5 and 6.1 is kept. These records shall include the time and date of inspection, the nature, colour, persistency and intensity of any emission and the name of the person carrying out the assessment. The log book shall be kept on the premises and made available for inspection by authorised officers of Sheffield City Council's Environmental Protection Service. Such records shall be kept for a minimum of two years and shall be furnished in writing to Sheffield City Council on demand.
- 4.4 In any case of abnormal emissions the operator shall:
- Identify the cause of the emissions and take corrective action immediately;
  - Adjust the process or activity to minimise the emissions;
  - Record details of the incident describing the nature and extent of the problems and the remedial actions taken in the log book.
- 4.5 The Permit holder shall inform Sheffield City Council's Environmental Protection Service within one day in cases where:
- An emission is likely to have an effect on neighbouring premises; or
  - There is a failure of any arrestment plant.

The report to Sheffield City Council's Environmental Protection Service shall include:

- The date and time of the incident;
- The cause and nature of the incident;
- Details of any abnormal emissions;
- Remedial action taken.

## **Section 5 – Sand Silos**

- 5.1 The Permit holder shall ensure that a visual assessment of emissions from the sand silos, bag filters and delivery pipes shall be undertaken for a period of at least the first and last five minutes during all bulk deliveries. Any adverse emissions shall be investigated immediately and rectified. The results of these visual assessments and the start and finish time of deliveries shall be recorded in the log book kept in accordance with condition 4.3.

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- 5.2 The bulk sand silo shall be vented to suitable bag filters to prevent emissions of particulate matter. These bags shall be of a sufficient size and kept clean to avoid over pressurisation during delivery. The silos shall also be fitted with a pressure relief valve, high-level indicator and audible alarm to warn of overfilling.
  - 5.3 The Permit holder shall ensure that a visual inspection of the sand silo bag filters, high level alarms and pressure relief valves is carried out at least once a month for any signs of wear, tear or damage. Any damage shall be repaired as soon as possible and prior to another delivery taking place. All inspections including any remedial action taken shall be recorded in the log book kept in accordance with condition 4.3 of this permit.
  - 5.4 During pressure tanker delivery into silos, the silos shall not be charged at such a rate exceeding that prescribed by the filter manufacturer in order to prevent causing any visible emissions of materials from any part of the silos or filters.
  - 5.5 All new or replacement silo filtration plant shall be designed to operate to an emission standard of less than 10mg/m<sup>3</sup> for particulate matter.

## **Section 6 – Maintenance of Abatement Plant**

- 6.1 The Permit holder shall ensure that the arrestment plant concerned with the control of emissions to air, such as the sand silo filters, shall be inspected at least once per month and is serviced at least once in every 12 month period to ensure sound operation. Details of the servicing or maintenance shall be recorded in the log book kept in accordance with condition 4.3.
- 6.2 Essential spares and consumables such as replacement filter bags, shall be stored on site or be readily available to rectify break downs rapidly.

## **Section 7 – Materials Handling**

- 7.1 Materials likely to generate particulate matter shall be unloaded, handled, transported and stored in such a manner that the emission of particulate matter to the air is prevented or, where not practicable, minimised and rendered harmless.
- 7.2 Stocks of dusty, or potentially dusty materials, including waste sand shall be stored in enclosed areas of the site, or under cover or shall be treated with water in order to minimise wind whipping of particulate matter.

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- 7.3 The Permit holder shall ensure that any spillage of particulate materials is cleaned up immediately by a wet method or vacuum cleaning in order to minimise particulate matter emissions to air. Dry sweeping is not permitted where it may result in the generation of airborne particulate matter to air outside any building.
  - 7.4 Arrested particulate matter from the filters serving the abatement plant storage silos shall be collected into heavy duty bags or containers which shall be sealed before being deposited in the waste skip in order to minimise emissions of particulate matter.
  - 7.5 All potentially dusty materials shall be stored in covered containers or under cover.

### **Section 8 – Chimneys, Exhausts and Vents**

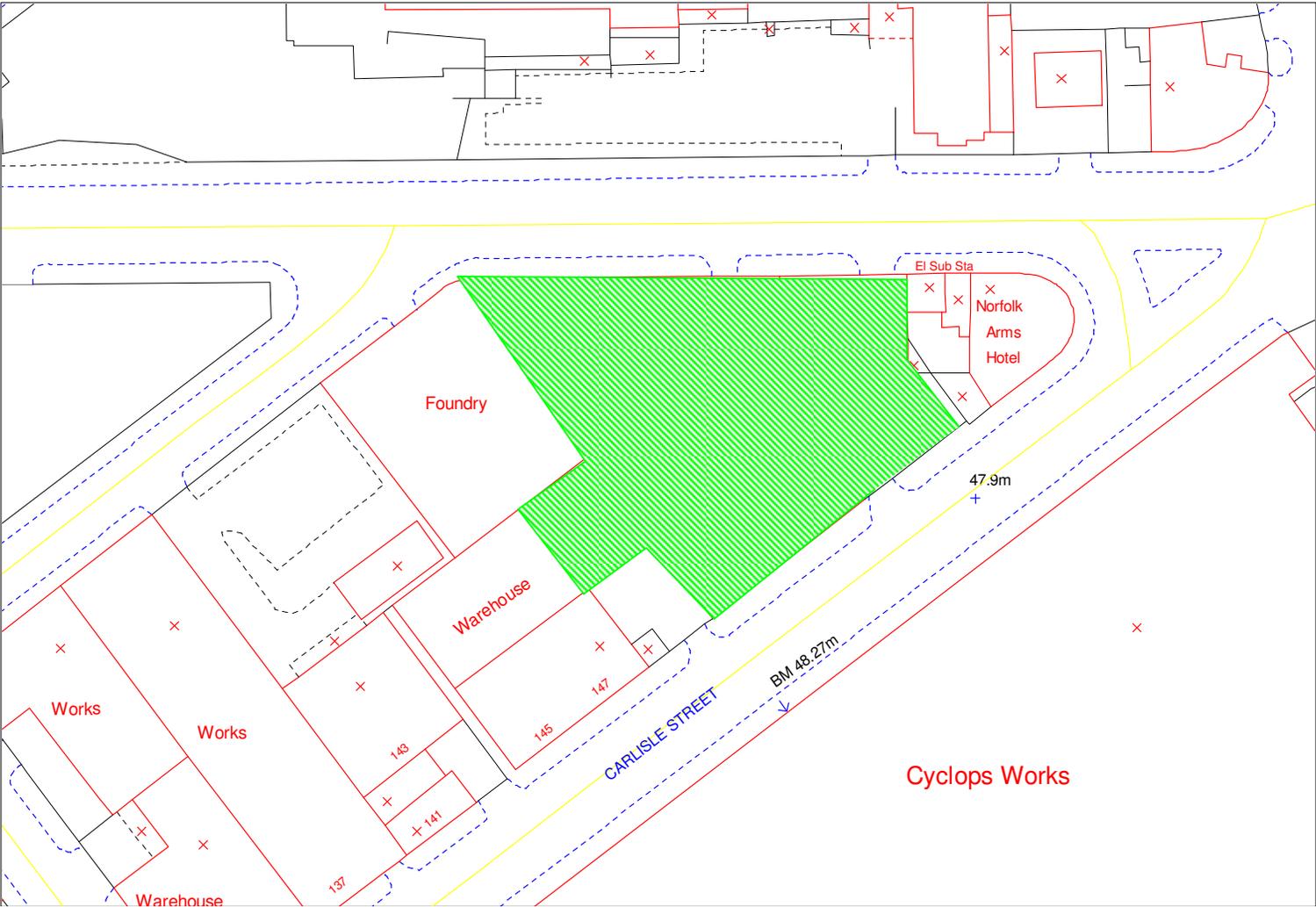
- 8.1 Process vents shall not be fitted with any restriction at the final opening, for example, a plate, cap or cowl.

### **Section 9 – General Conditions**

- 9.1 External surfaces of the process buildings, ancillary plant and open yards and storage areas shall be inspected annually and cleaned if necessary to prevent the accumulation of dusty material in circumstances where dust may become wind entrained. Particular attention shall be paid to roofs, guttering, roadways, external storage areas and yards. Cleaning operations shall be carried out by vacuum or wet sweeping methods in order to minimise emissions of particulate matter to air.
- 9.2 The activities shall be carried out within the areas indicated by shading on the plan in Schedule 1 to this Permit.
- 9.3 The layout of process and abatement plant shall be as indicated in Schedule 2 to this Permit.
- 9.4 The Permit Holder shall inform Sheffield City Council's Environmental Protection Service of any proposed changes to the installation which may have an impact on the emissions to atmosphere.

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- 9.5 Staff at all levels shall receive training and instructions necessary for their duties and shall include the following:
- Responsibilities under the permit;
  - Minimisation of emissions at start up and shut down;
  - Actions during abnormal emissions including minimisation of emissions.
- 9.6 The Permit holder shall keep and maintain a statement of training requirements for each operational post and keep a record of the training received by each employee whose actions may have an impact on emissions to atmosphere. These documents shall be made available to Sheffield City Council's Environmental Protection Service upon request.
- 9.7 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.

Schedule 1 – Installation Location



## Schedule 2 – Installation Layout

