



**POLLUTION PREVENTION AND CONTROL ACT 1999
ENVIRONMENTAL PERMITTING (ENGLAND AND WALES)
REGULATIONS 2016 as amended**

**Permit Number: 2.1/049174/LR3
Installation Address:
Trefoil Steel Company Limited
Rotherfield Works
Dead Man's Hole Lane
Tinsley
Sheffield
S9 1QQ**

In accordance with Regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016, as amended, Trefoil Steel Company Limited, is hereby permitted to operate a scheduled activity at the address detailed above, namely the production, melting or refining of iron or steel or any ferrous alloy (other than producing pig iron or steel, including continuous casting) using induction furnaces as described in Schedule 1, Part 2, Chapter 2, Section 2.1, Part B(b)(i) and subject to the following Permit conditions.

Signed

Dated this day: 12.04.24

**Commercial Team Manager
Authorised by Sheffield City Council to sign on their behalf.**

The Secretary of State's Process Guidance Notes PG2/03(13) "Electrical Furnaces" and PG2/04(13) "Iron, Steel and Non-Ferrous Foundry Processes" have provided the framework for the conditions in this Permit.

Name & Address of Operator:

Trefoil Steel Company Limited
Rotherfield Works
Dead Man's Hole Lane
Tinsley
Sheffield
S9 1QQ

Site Contact: Russell Smith (Quality, Health and Safety, Environment Manager)
Tel: 01709 830701 Email address: quality@trefoilsteel.com

Registered Office:

Peak Pattern Company Limited
31 Staniforth Road
Sheffield
S9 3HB
Company Registration Number: 01646686

Address of Permitted Installation:

Trefoil Steel Company Limited
Rotherfield Works
Dead Man's Hole Lane
Tinsley
Sheffield
S9 1QQ

Holding Company:

Palm Tree Holdings Ltd
Palm Tree Works
31 Staniforth Road
Sheffield
S9 3HB
Company registration number: **01310383**

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

4th Floor (South)

Howden House

1 Union Street

Sheffield

S1 2SH

Telephone: (0114) 273 4651

Email: jppc@sheffield.gov.uk

Contents

Explanatory Note to Pollution Prevention and Control Permit for Part B Installations	5
Definitions	8
Description of Activities	9
Conditions of Permit	11
1 Upgrading	11
2 Plant and Equipment	11
3 Production Capacity	11
4 Emission Limits and Controls	11
5 Monitoring, Sampling and Measurement of Emissions	12
6 Continuous Monitoring of Emissions from Furnace Stack	14
7 Sand Silos	15
8 Maintenance of Abatement Plant	16
9 Materials Handling	17
10 Chimneys and Process Vents	17
11 Records and Training	17
12 General Conditions	18
Schedule 1 Installation Location and Boundary	20
Schedule 2 Installation Layout	21

Explanatory Note to Pollution Prevention and Control Permit for Part B Installations

The following Permit is issued under Regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016, as amended (Statutory Instrument 1154), (“the EP Regulations”) to operate an installation carrying out activities covered by the description in Schedule 1, Part 2, Chapter 2, Section 2.1, Part B(b)(i), to the extent authorised by the Permit:

Chapter 2, Production and Processing of Metals, Section 2.1 Ferrous Metals, Part B(b) Unless falling within Part A(2)(a) or (d) of this Section, producing, melting or refining iron or steel or any ferrous alloy (other than producing pig iron or steel, including continuous casting) using (i) one or more electric arc furnaces, none of which has a designed holding capacity of 7 or more tonnes.

Process Changes

As part of your permit, 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 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 66 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 66 (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 EP 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
4th Floor (South)
Howden House
1 Union Street
Sheffield
S1 2SH
Telephone: (0114) 273 4651
Email: jppc@sheffield.gov.uk

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 2016, 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.

How to Appeal

There are forms available to lodge an appeal here:

<https://www.gov.uk/government/publications/environmental-permit-appeal-form>

There is no fee to appeal.

Where to Send Your Appeal Documents

Appeals should be addressed to:

The Planning Inspectorate
Environment Appeals Team
3A Eagle Wing
Temple Quay House
2 The Square
Temple Quay
Bristol BS1 6PN

Phone: 0303 444 5584

Email: etc@planninginspectorate.gov.uk

You must also send a copy of your appeal to the relevant regulator.

In the course of an Appeal process, the main parties will be informed of the 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.

Definitions

In relation to this Permit, the following expressions shall have the following meanings:

“Application” means the application for this Permit, together with any response to a notice served under Schedule 4 to the EPR Regulations and any operational change agreed under the conditions of this Permit.

“EPR Regulations” means the Environmental Permitting (England and Wales) Regulations S.I.2016 No. 1154 (As Amended) and words and expressions defined in the EPR Regulations shall have the same meanings when used in this Permit save to the extent they are explicitly defined in this Permit.

“Permitted Installation” means the activities and the limits to those activities described in this Permit.

“Monitoring” includes the taking and analysis of samples, instrumental measurements (periodic and continual), calibrations, examinations, tests and surveys.

“Regulator” means any officer of Sheffield City Council who is authorised under section 108(1) of the Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in Section 108(1) of that Act.

“BAT” means the most effective and advanced stage in the development of activities and their methods of operation which indicates the practical suitability of particular techniques for providing in principle the bases for emission limit values designed to prevent, and where that is not practical, generally to reduce emissions and the impact on the environment as a whole. For those purposes:

“available techniques” means those techniques which have been developed on a scale which allows implementation in the relevant industrial sector, under economically and technically viable conditions, taking into consideration the cost and advantages, whether or not the techniques are used or produced inside the United Kingdom, as long as they are reasonably accessible to the Operator.

“best” means, in relation to techniques, the most effective in achieving a high general level of protection of the environment as a whole; *“techniques”* include both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned. Schedule 2 of the Regulations shall have effect in relation to the determination of best available techniques.

“Fugitive Emission” means an emission to air from the permitted installation that is not controlled by an emission limit imposed by a condition of this Permit.

Description of Activities

Core Blowing

A 155 Coldbox core making machine uses silica sand bonded with triethylamine to produce solid hard cores which are removed by hand and taken by pallet to the moulding area. The sand is stored in tied-up 1 tonne bags inside the core building, and loaded manually into a small mixer machine hopper where it is mixed with alkaline-phenolic resin to become "wet". It is then transferred to the core blowing machine to become hard cores when exposed to triethylamine. Abatement is a Nederman vacuum/ventilation unit. Emissions are vented via a 150mm diameter stack to external air at a rate of 30m³/minute.

Manufacture of Sand Moulds

Sand moulds are made using a cold set process cured at room temperature involving a mixture of silica sand with the addition of alkaline phenolic resins, organic esters and isopropanol-based paints. Virgin sand is stored in a 25-tonne sand silo fitted with high- and low-level alarms; reclaimed sand is stored in a 40-tonne silo. Both silos are situated external to the foundry in the yard, are fitted with pressure relief valves and share the same DCE reverse jet cartridge filter containing 16 cartridges (DCE C/LI/185(63) Machine number 1038C/10168). Resin is stored in a 9.8-tonne capacity bunded tank situated within the foundry. Waste sand is stored in a 16-tonne skip outside in the yard.

Melting and Tapping

The production of stainless steel, carbon steel and low alloy steel melting clean pig iron and steel scrap with the addition of ferro manganese, ferrochromium, ferro molybdenum, ferro silicon and calcium silicomanganese as alloying elements, using 2 high frequency electric induction Inductotherm furnaces. The furnace capacities are 600kg and 920kg. Molten metals are tapped into ladles and ladle covering powders are added before pouring the molten metal into moulds, after which exothermic topping powders are added. Emissions from melting and tapping are extracted with a fan via two extraction hoods and filtered through a Tornado 16 Xcell reverse jet cartridge filter unit before being released to the external air via a 10m high stack.

Sand Reclamation

Sand is reclaimed using a vibratory sand reclamation plant (Gamma LL6). Reclaimed sand is blown pneumatically to the 40-tonne capacity reclaim sand silo. Emissions from the sand reclamation unit are filtered through a DCE reverse jet cartridge filter unit containing 16 cartridges before being extracted to the external air (DCE C/LI/185(63) Machine number 1038C/10168).

Finishing

Large castings may be finished in a 2-metre Roster table blast machine, smaller casts are shotblasted in a centri blast or a wheelabrator 1.5 metre table blast machine vented internally. Castings may also be finished using hand grinders in the welding bay. Emissions from these finishing processes are extracted to a Donaldson 16 reverse jet cartridge filter system which exhausts internally to the pattern store. Gates are removed from castings by arc-air cutting, the fumes from which are extracted via a Donaldson Torit DFPRO 12 reverse jet cartridge filter before being emitted to the external air via a grille.

This Permit also refers to the storage of raw materials, the storage and handling of wastes and the dispatch of final products.

Conditions of Permit

1 Upgrading

1.1 There are no upgrading conditions requirements.

2 Plant and Equipment

2.1 The activities at the installation shall be carried out within the installation boundary outlined in red as indicated on the Installation Location and Boundary plan shown in Schedule 1 of this Permit.

2.2 Permitted activities shall only be carried out using the plant and equipment as detailed in the Description of Activities and on the Installation Layout reproduced in Schedule 2 of this Permit.

2.3 The Operator shall notify Sheffield City Council's Environmental Protection Service, hereafter referred to as "the Regulator" of any proposed operational changes including any alterations to the process involving the provision of new plant or equipment which may affect emissions or have consequences for the environment. The information shall be submitted at least 14 days before the changes take place.

2.4 No plant or equipment used for any activity shall be operated with an extraction point to atmosphere unless specifically noted within this Permit or specifically agreed in writing with the Regulator.

3 Production Capacity

3.1 The installation shall produce less than twenty tonnes per day of finished product.

3.2 The Operator shall keep a record of production to demonstrate compliance with condition 3.1. The record shall include the total weight of castings and the total weight of finished product in tonnes per day. The record shall be kept in a logbook or other recording system on site and be available for inspection by authorised officers of Sheffield City Council's Environmental Protection Service.

4 Emission Limits and Controls

4.1 No visible dust, fume or particulate matter shall be emitted beyond the installation boundary. The installation boundary is detailed in Schedule 1.

4.2 There shall be no burning of materials, including waste, in the open air, inside buildings or in any form of incinerator in connection with the activities within the installation boundary, without permission in writing from the Regulator.

4.3 Emissions from combustion processes shall be free from visible smoke and in any case shall not exceed the equivalent of Ringelmann Shade 1 as described in British Standard BS 2742:2009.

4.4 All reasonably practicable steps shall be taken to minimise the duration and visibility of emissions during start up and shut down.

- 4.5 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.
- 4.6 Emissions to air shall be free of offensive odour beyond the installation boundary as perceived by the Regulator.
- 4.7 Furnaces shall be operated using insulating powder covering or an argon blanket over the charge to minimise emissions during melting.
- 4.8 Except for condensed water vapour, all releases to air shall be free from persistent visible emissions.
- 4.9 In the reporting of monitoring results, all pollutant concentrations shall be expressed at reference conditions 273k and 101.3kPa. The oxygen and water references shall be those which correspond to the normal operating conditions in the process.
- 4.10 The introduction of dilution air into duct systems in order to comply with emission limits shall not be permitted.
- 4.11 Emissions of total particulate matter from the stack serving the furnaces shall not exceed 20mg/m³.
- 4.12 Emissions of nickel, cobalt, chromium and their compounds from the stack serving the furnaces shall not exceed 5mg/m³.
- 4.13 Emissions of total particulate matter from all other emissions point stacks with an airflow of greater than 150m³/min shall not exceed 20mg/m³.
- 4.14 A minimum discharge velocity of 15m/s shall be applicable to the stack serving the furnaces.
- 4.15 Emissions shall be tested at least once in every twelve-month period unless otherwise agreed in writing with the Regulator.

5 Monitoring, Sampling and Measurement of Emissions

- 5.1 At least 7 days prior to any non-continuous monitoring being carried out, the Operator shall ensure that site specific monitoring protocols are submitted to the Regulator for approval. The monitoring protocols shall include the proposed date and time of the testing, the method to be used and the pollutants to be monitored.
- 5.2 The results of annual non-continuous monitoring tests shall be forwarded to the Regulator within 8 weeks of completion of the testing.
- 5.3 The Operator shall ensure that adequate facilities for sampling are provided on vents or ducts. Sampling points on new plant shall be designed to comply with the British or equivalent standards.

- 5.4 Monitoring shall be carried out in accordance with methods described in M1 “Sampling requirements for monitoring stack emissions to air from industrial installations” and Monitoring Stack Emissions: Environmental Permits (formerly part of M2), or by another method agreed in writing by the Regulator.
- 5.5 Non-continuous emissions monitoring of nickel, cobalt, chromium and their compounds shall be carried out in accordance with the main procedural requirements of BS EN 14385, or by another method agreed in writing by the Regulator.
- 5.6 Non-continuous emissions monitoring of particulate matter shall be carried out in accordance with the main procedural requirements of BS EN 13284: Part 1 with averages taken over operating periods excluding start up and shut down.
- 5.7 For batch processes the extractive sampling shall take place over a complete cycle of activity.
- 5.8 Where the results of any non-continuous monitoring breach the emission concentration limit, the Operator shall investigate the matter as soon as possible. The investigation shall include the following steps:
- a) Close down the process or plant responsible for the breach.
 - b) Identify the cause of the breach.
 - c) Carry out any necessary works or repairs to ensure compliance with the emission concentration limit.
 - d) Re-test the plant to check compliance with the emission concentration limit specified as soon as possible.
 - e) Submit the re-test emissions monitoring report to the Regulator within 7 days of receipt of the results.
 - f) Record details of investigation and outcomes in the logbook or recording system.
- 5.9 Where the results of any non-continuous monitoring exceed the emission concentration limit, the Operator shall inform the Regulator no later than 10:00 hours the following working day after receipt of the results of the emissions testing.
- 5.10 Extraction systems which include pollution abatement equipment shall be fitted with a pressure drop indicator such as a magnehelic gauge, burst bag indicator or other device, as agreed by the Regulator.
- 5.11 A reading of the magnehelic gauges or other pressure drop indicators serving filters shall be taken and recorded on every operational day. Details of the reading shall be recorded in the logbook or recording system kept in accordance with condition 5.15. Where the reading falls outside the optimum parameters for the plant, the condition of the filters shall be investigated and rectified. Details of the investigation and outcomes shall be recorded in the logbook or recording system.

- 5.12 The Operator shall ensure that a visual assessment of fugitive fume and dust emissions from the building housing the melting processes 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 logbook or recording system kept in accordance with condition 5.15.
- 5.13 The Operator shall conduct odour assessments to determine whether emissions from activities result in offensive odours. Assessments shall be made during melting and casting, and during core-blowing. The duration of the assessments shall be for a minimum of one minute. The assessments shall be carried out at least once per day at locations agreed in writing by the Regulator. All results of observations shall be recorded in the logbook or recording system kept in accordance with condition 5.15.
- 5.14 The Operator shall ensure that adverse results from the assessments carried out in accordance with Permit conditions 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 logbook or recording system kept in accordance with condition 5.15.
- 5.15 The Operator shall ensure that a logbook or suitable recording system containing the details and results of all visual and olfactory assessments, records of all inspections, checks and assessments made in accordance with Permit conditions 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 logbook or recording system shall be kept on the premises and made available for inspection by the Regulator. Such records shall be kept for a minimum of two years and shall be furnished in writing to the Regulator on demand.
- 5.16 The Operator shall inform the Regulator 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 the Regulator shall include:

- a) The date and time of the incident
- b) The cause and nature of the incident
- c) Details of any abnormal emissions
- d) Remedial action taken.

6 Continuous Monitoring of Emissions from Furnace Stack

- 6.1 Emissions of particulate matter from the filter stack serving the furnaces shall be continuously indicatively monitored.
- 6.2 The monitoring system shall have a visual display which is clearly legible to operating staff.
- 6.3 The monitoring system shall be fitted with audible and visible alarms and be situated appropriately to warn operating staff of malfunction or failure of the filter abatement system.

- 6.4 The alarms shall be set to trigger when the particulate emissions reach a reference level equivalent to 15mg/m³.
- 6.5 The activation of alarms shall be automatically recorded.
- 6.6 A 6-monthly summary of automatically recorded data and alarm events from the continuous particulate monitor shall be forwarded to the Regulator twice per year, by 31st October and 30th April.
- 6.7 There shall be a written alarms procedure so that operating staff know what action to take in the event of an alarm.
- 6.8 The continuous monitor shall provide reliable data >95% of the operating time (i.e., availability >95%). A manual or automatic procedure shall be in place to detect instrument malfunction and to monitor instrument availability.
- 6.9 The Operator shall ensure that a visual check of the indicative particulate monitor and associated alarms is carried out at least once in every 3-month period for any signs of damage. Any defects shall be repaired as soon as possible. Details shall be recorded in the logbook or recording system referenced in condition 5.15.
- 6.10 The Operator shall ensure that the indicative particulate monitor is serviced and calibrated at least one in every 12-month period by a competent person. Details of the servicing or maintenance shall be recorded in the logbook or recording system referenced in condition 5.15.

7 Sand Silos

- 7.1 The Operator shall ensure that a visual inspection of emissions from the virgin sand silo, associated 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 logbook or recording system kept in accordance with condition 5.15.
- 7.2 The bulk sand silos shall be vented to suitable filters to prevent emissions of particulate matter. These bags shall be of a sufficient size and kept clean to avoid over-pressurisation during delivery. Each silo shall also be fitted with a pressure relief valve, high-level indicator and audible alarm to warn of over-filling.
- 7.3 The Operator shall ensure that a visual inspection of the sand silo 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 defect 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 logbook or recording system kept in accordance with condition 5.15 of this permit.
- 7.4 During pressure tanker delivery into a silo, the silo shall be charged at a rate prescribed by the filter manufacturer, and shall not be exceeded, in order to prevent causing any visible emissions of materials.

- 7.5 The operation of the pressure relief valve shall be audibly assessed during each delivery. A record of the audible assessment shall be made in the logbook or recording system kept in accordance with condition 5.15 of this permit. If, during delivery it appears that the valve may have become unseated, the delivery shall cease immediately, and the valve examined and re-seated prior to the delivery continuing.
- 7.6 All new or replacement silo filtration plant shall be designed to operate to an emission standard of less than 10mg/m³ for particulate matter.

8 Maintenance of Abatement Plant

- 8.1 Filtration plant shall be inspected at the frequency specified in the Table below. The inspection shall be carried out under normal operating conditions for any sign of wear, tear or damage. Any defects shall be repaired as soon as possible to ensure sound operation and prevent emissions to atmosphere. Details of the checks and repair work shall be recorded in the logbook or recording system required by condition 5.15 of this permit.

Filter Cleaning Method	Frequency of Visual Inspection
Fitted with reverse jets	At least once a month
Fitted with mechanical shakers	At least once a week
Requiring manual shaking	Daily inspection or prior to any delivery being made, if deliveries are not daily

- 8.2 The Operator shall ensure that arrestment plant serving the furnaces, arc air, sand silos and the shotblasting, fettling and grinding emission points is serviced at least once in every 12-month period to ensure sound operation. Details shall be recorded in the logbook or recording system kept in accordance with condition 5.15 of this permit.
- 8.3 Effective preventative maintenance shall be employed on all plant and equipment concerned with the control of emissions to air. Essential spares and consumables such as replacement filters, shall be stored on site or be readily available in 24 hours from guaranteed suppliers, in order to rectify break downs rapidly.
- 8.4 The Operator shall keep a written maintenance programme in relation to permitted pollution control equipment. The programme shall be made available to the Regulator upon request.
- 8.5 The Operator shall maintain a list of key abatement plant and have a written procedure for dealing with its failure.
- 8.6 All malfunctions or breakdowns leading to visible emissions shall be investigated and rectified immediately. Process operations shall be adjusted until normal operations are restored. Details of the malfunction shall be recorded in the logbook or recording system. If an effect on the local community is likely, the Operator shall inform the Regulator within one working day.

9 Materials Handling

- 9.1 Sand shall be transferred from silos to mixers using enclosed systems.
- 9.2 Dusty or potentially dusty materials shall be stored in containers, or under cover to prevent emissions of particulate matter to the air.
- 9.3 Waste skips shall be covered with tarpaulin or other suitable material, to prevent emissions of particulate matter to the air.
- 9.4 The Operator shall ensure that any accumulation or spillage of dusty materials is cleaned up immediately by a wet method or vacuum cleaning. Dry sweeping is not permitted.
- 9.5 Accumulations of materials likely to generate dust are not permitted outside any building.
- 9.6 Arrested particulate matter from the filters serving abatement plant shall be collected directly into heavy duty bags or containers which shall be located underneath the abatement plant. The bags shall be tied or sealed before being deposited in a waste skip in order to minimise spillages or emissions of particulate matter.
- 9.7 Intermediate Bulk Containers (IBCs) or drums containing resin, isopropanol or other potentially harmful or odorous substances shall be stored in a bunded covered area.

10 Chimneys and Process Vents

- 10.1 Stacks or process vents 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 has been fitted to increase the efflux velocity with prior written approval of the Regulator.
- 10.2 Stack flues and duct work shall be checked and cleaned at least once every six-month period in order to prevent an accumulation of materials. This shall be written into the site Maintenance Programme and a record of the check and clean made in the logbook or recording system required by condition 5.15.

11 Records and Training

- 11.1 Staff at all levels shall receive training and instructions necessary for their duties and shall include the following:
 - a) Responsibilities under the Permit
 - b) Minimisation of emissions
 - c) Actions during abnormal emissions including dust suppression.
- 11.2 The Operator 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. These documents shall be made available to the Regulator on demand.

- 11.3 The Operator shall ensure that all records required to be made by this Permit and any other records made by it in relation to the operation of the permitted process shall:
- a) be made available for inspection by the Regulator at any reasonable time.
 - b) be supplied to the Regulator 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 be retained at the Permitted installation, or other location agreed by the Regulator in writing, for a minimum period of 2 years from the date when the records were made, unless otherwise agreed in writing.

12 General Conditions

- 12.1 External surfaces of the process buildings, ancillary plant and open yards and storage areas shall be inspected at least annually and cleaned if necessary to prevent the accumulation of dusty material. Particular attention shall be paid to roofs, guttering, roadways, external storage areas and yards. Cleaning operations shall be carried out by wet sweeping methods or vacuuming in order to minimise emissions of particulate matter to air.
- 12.2 The Operator shall notify the following to the Regulator, in writing, within 14 days of their occurrence: -
- a) Any change in the trading name, registered name or registered office address
 - b) A change to any particulars of any ultimate holding company (including details of an ultimate holding company where the company has become a subsidiary)
 - c) Any steps taken with a view to going into administration, entering into a company voluntary arrangement or being wound up.
- 12.3 The Operator shall notify the Regulator **without delay** of:
- a) The detection of an emission of any substance, which exceeds any limit or criterion in this Permit, specified in relation to the substance.
 - b) The detection of any fugitive emission that has caused, is causing or may cause significant pollution, unless the quantity emitted is so trivial that it would be incapable of causing significant pollution.
 - c) The detection of any malfunction, breakdown or failure of plant or techniques which has caused, is causing or has the potential to cause significant pollution.
 - d) Any accident, which has caused, is causing or has the potential to cause significant air pollution.

12.4 The Operator shall give written notification to the Regulator in the following instances:

- a) Permanent cessation of the operation of any part of, or all of the Permitted Installation
- b) Cessation of the operation of any part of, or all of the
- c) Permitted Installation for a period, likely to exceed 1 year.
- d) Resumption of the operation of any part of, or all of the permitted installation after a cessation notified under (b) above.

12.5 All reports and notifications required by this Permit, or under any Regulation under the Environmental Permitting Regulations 2016, as amended, shall be sent to the Regulator. Unless notified in writing, all reports, notifications and communications in respect of this Permit shall be sent to:

epsadmin@sheffield.gov.uk or ippc@sheffield.gov.uk

or

**Sheffield City Council
Environmental Protection Service
Floor 4 Howden House
1 Union Street
Sheffield
S1 2SH.**

END OF CONDITIONS

Please Note

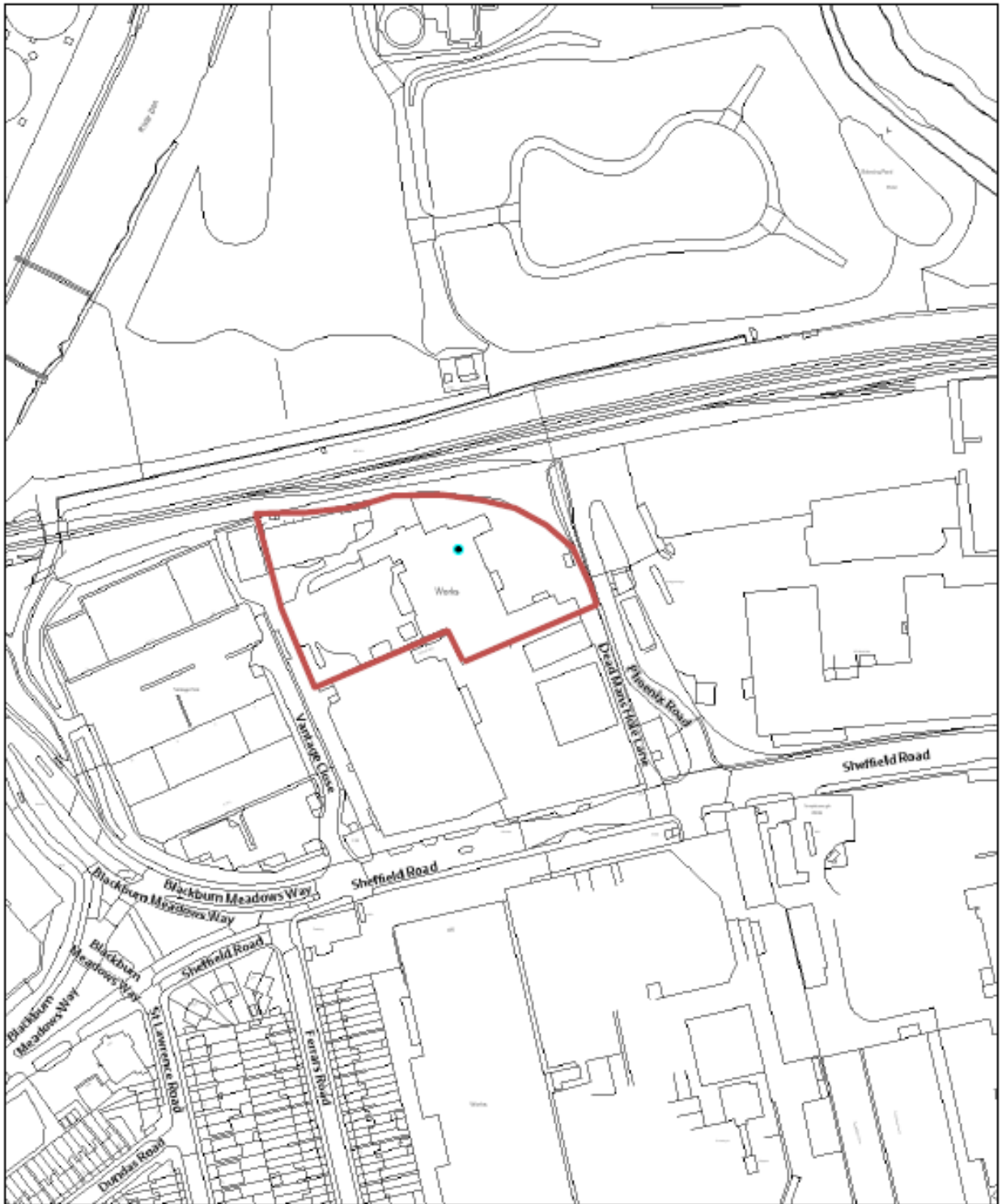
Where complaint is attributable to the operation of the installation and is, in the opinion of the Local Authority, justified, or if new knowledge develops on the potential for harmful effects from emissions, an immediate review of the Permit shall be undertaken. The Local Authority shall subsequently specify any new requirements and compliance time scales.

An annual subsistence fee as prescribed by the Secretary of State for the Environment shall be payable, for this Permit, by the process Operator, to this Authority within 2 weeks of the 1st of April of each year.

In the event that the Permit has been issued after the 1st of April in the initial year then the subsistence fee shall be pro rata for the complete months remaining and shall be due within 2 weeks of the Permit issue date.

If the relevant payment is not received by the Regulator, Sheffield City Council's Environmental Protection Service, then Permit revocation procedures may be initiated.

Schedule 1 Installation Location and Boundary



Schedule 2 Installation Layout

