



**POLLUTION PREVENTION AND CONTROL ACT 1999  
ENVIRONMENTAL PERMITTING (ENGLAND & WALES) REGULATIONS  
2010 (As Amended)**

**Permit Number: 2.2/048262/JT2  
Installation Address: Tivac Alloys Limited  
115 Blackburn Road  
Sheffield  
S61 2DN**

**In accordance with Regulation 13 of the Environmental Permitting (England and Wales) Regulations 2010 as amended, Tivac Alloys Ltd is hereby Permitted to operate 2 scheduled activities at the address detailed above, namely the heating in 2 rotary gas fired furnaces of any non-ferrous metal or metal alloy for the purpose of removing grease, oil or other non-metallic contaminants, the furnaces having a net rated thermal input in aggregate of less than 0.2 MW as described in Schedule 1, Part 2, Chapter 2, Section 2.2, Part B, subsection (b) and the directly associated activity of melting scrap and non-ferrous metals (titanium) in 2 electric induction furnaces, with a melting capacity of less than 20 tonnes per day, 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: May 9<sup>th</sup> 2014

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

The Secretary of State's Guidance PG 2/3 for Electrical Furnaces, PG 2/4 Iron, Steel and Non-ferrous Foundry Processes and PG 2/9 for Metal Decontamination Processes, have provided the framework for the conditions in this Permit.

**Name & Address of Operator:**

**Tivac Alloys Limited  
115 Blackburn Road  
Sheffield  
S61 2DN**

Contact Name: Nick Morley  
Contact Telephone: 01709 551999 07711 727230  
Email: [nick@tivac.co.uk](mailto:nick@tivac.co.uk)

**Registered Office:**

**Tivac Alloys Limited  
115 Blackburn Road  
Sheffield  
S61 2DN**  
Company Registration Number: 4314207

**Address of Permitted Installation:**

**Tivac Alloys Limited  
115 Blackburn Road  
Sheffield  
S61 2DN**

**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**

**Tel: 273 4651**

Alternatively Email: [epsadmin@sheffield.gov.uk](mailto:epsadmin@sheffield.gov.uk) or [ippc@sheffield.gov.uk](mailto:ippc@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 2010 (S.I. 2010 No.675), as amended, (“the EP Regulations”) to operate an installation carrying out activities covered by the description in Section 2.2 Part B a) and b) of Schedule 2 of those Regulations, to the extent authorised by the Permit:

**Process Changes**

Under the provisions 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 wishes 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 A2 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 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 1<sup>st</sup> 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 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  
2-10 Carbrook Hall Road  
Carbrook  
Sheffield  
S9 2DB

Tel: 0114 273 4651 or email [epsadmin@sheffield.gov.uk](mailto:epsadmin@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 2010 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 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.

## **Enforcement**

An **Enforcement Notice** may be served if the Local Authority believes an Operator has contravened, is contravening or is likely to contravene any condition of his Permit.

A **Suspension Notice** may be served if in the opinion of the Local Authority the operation of an installation involves an imminent risk of serious pollution. This applies whether or not the Operator has breached a Permit condition.

The Local Authority can revoke a Permit by written notice at any time by serving a **Revocation Notice**. The Permit then ceases to authorise the operation of the installation.

## **Offences**

A limited summary of the offences is listed below:

- a) operation of an installation without a Permit
- b) failure to comply with or contravene a Permit condition
- c) failure to comply with the requirements of an enforcement or suspension notice

A full list is available under Regulation 38 of the Environmental Permitting (England & Wales) Regulations 2010 as amended.

## **Penalties**

The maximum penalties for the above offences are a fine not exceeding £50,000 and/or up to twelve months imprisonment per offence for a summary conviction (in a Magistrates Court); and a fine and/or up to five years imprisonment for conviction on indictment (in a Crown Court).

## 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.2010 No. 675 (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, and;

*“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.

Where any condition of this Permit refers to the whole or parts of different documents, in the event of any conflict between the wording of such documents, the document with the most recent publication date shall be taken to be the most appropriate document to be used.

## **DESCRIPTION OF ACTIVITIES.**

Tivac Alloys Limited operates a ferro-titanium decontamination and melting process. The melting shop has a melting capacity of less than 20 tonnes per day of non-ferrous metals in the form of ferro-titanium ingots.

The installation is located as indicated in Schedule 1 "Installation Location and Boundary" which forms part of this Permit.

The process is presented schematically in Schedule 2. The following is a summary of the activities, plant and processes.

### **Crushing of Turnings.**

Titanium turnings are received in a machined condition and manually fed into a Mayfran Swarf or similar Crushing Machine located outside the foundry in the yard.

### **De-Contamination of Turnings.**

Titanium turnings are mechanically fed into one of two gas fired rotary driers to burn off the machining oil residue. The rotary driers are each fitted with an afterburner operated at 800°- 900°C with a minimum residence time of 2 seconds within the high temperature zone. All emissions from the degreasing process are extracted via ducting to one of two NB Fabrications ceramic filters each containing 168 filters before being exhausted to the external air. Emissions of total particulate matter from the ceramic filters are continuously indicatively monitored and continuously recorded using an E-DAS mini qualitative/indicative triboelectric continuous emissions monitor with datalogger (or equivalent monitoring instrument) to monitor the performance of abatement plant. The indicative monitor is connected to a datalogger to automatically record the emissions and alarm events. The monitor is set to trigger an alarm when emissions reach the reference equivalent of 15mg/m<sup>3</sup>. Alarm events are automatically recorded. The two banks of ceramic filters are each fitted with a magnehelic gauge to measure the pressure differential across the filters to indicate filter failure. Pollutants are emitted to atmosphere via 2 stacks of 7.5 metres in height after filtration (stacks D1 & D2).

### **Melting.**

The installation operates 2 electric induction furnaces for the melting of decontaminated titanium turnings and scrap.

The melting of degreased titanium swarf and scrap occurs in two 800 KW Taylor made electric induction furnaces, each with a melting capacity of 750kg. Melting and casting fumes are extracted to two AAF OptiFlow pulse jet cylindrical cartridge dust collector containing 48 cartridges via the extract or hoods situated directly over the melting

furnaces. Filtered emissions are then emitted to atmosphere via 2 stacks of a minimum of 10 metres in height (stacks M1 and M2).

The system design capacity is 45,000m<sup>3</sup> per hour (26,000cfm) with an air transport speed of 15m/s. The filters are cleaned by pulse jet compressed air.

The pouring of molten ferro-titanium into steel ingot pans occurs inside the melting shop with doors closed. Emissions from casting are captured by the furnace hoods and ducted to the cartridge filters before being emitted to atmosphere. The pressure differential across the cartridge filters is continuously monitored by a magnehelic gauge, to warn of filter failure or blinding. Total particulate matter emissions are continuously monitored by E-DAS mini qualitative/indicative triboelectric continuous emissions monitor with datalogger, which is set to trigger an alarm when emissions reach the reference equivalent of 7.5 mg/m<sup>3</sup>. Alarm events are automatically recorded.

This Permit covers the receipt of raw materials, production, storage and handling of materials including waste and despatch of products.

## **CONDITIONS OF PERMIT.**

The following conditions shall be complied with immediately unless otherwise stated.

### **Section 1 – Upgrading.**

- 1.1 Works to extend the height of the stacks serving the melting furnace extraction, M1 and M2, to a minimum of 10 metres, shall be completed within 4 weeks of the date of this Permit.

### **Section 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 on using the plant and equipment as detailed in the Description of Activities and on the Installation Layouts reproduced in Schedules 2a and 2b of this Permit.
- 2.3 The Operator shall notify Sheffield City Council's Environmental Protection Service 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.

### **Section 3 – Emission Limits and Monitoring.**

- 3.1 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 Sheffield City Council's Environmental Protection Service.
- 3.2 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.
- 3.3 All reasonably practicable steps shall be taken to minimise the duration and visibility of emissions during start up and shut down.
- 3.4 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.

- 3.5 There shall be no persistent visible emissions from the installation.
- 3.6 There shall be no offensive odour detectable beyond the installation boundary, as perceived by an authorised officer of Sheffield City Council's Environmental Protection Service.
- 3.7 All pollutant concentrations shall be expressed at reference conditions 273K, 101.3Kpa, oxygen and water references shall be that which corresponds to the normal operating conditions in the process concerned.
- 3.8 Emissions from the stacks D1 and D2 serving the degreasing driers 1 and 2 shall not exceed the limits for the pollutants as set out in the Table below:

<b>Pollutant</b>	<b>Concentration</b>
Total particulate matter	20mg/m <sup>3</sup>
Organic compounds excluding particulate matter	20mg/m <sup>3</sup>
Chloride emissions excluding particulate matter	10mg/m <sup>3</sup>

- 3.9 Emissions of total particulate matter from the stacks known as M1 and M2 serving the melting furnaces shall not exceed 10mg/m<sup>3</sup> for total particulate matter.
- 3.10 By 1st September 2014, and annually thereafter, emissions to air shall be monitored to demonstrate compliance with the concentration limits in condition 3.8 and 3.9.
- 3.11 Monitoring of emissions shall be carried out in accordance with methods described in the latest version of the Environment Agency's monitoring documents M1 and M2, or by another method agreed in writing by Sheffield City Council's Environmental Protection Service.
- 3.12 Non-continuous emissions monitoring of particulate matter shall be carried out in accordance with the main procedural requirements of BS ISO12141:2002 or BS EN 13284:Part 1 with averages taken over operating periods excluding start up and shut down. Sampling equipment shall be capable of collecting at least 75% of particulate matter of 0.1 microns diameter or less.

- 3.13 Where the results of any non-continuous monitoring demonstrate a breach of the emission concentration limit, the Operator shall investigate the matter as soon as possible. The investigation shall include the following steps:
- Close down the process or plant responsible for the breach;
  - Identify the cause of the breach;
  - Carry out any necessary works or repairs to ensure compliance with the emission concentration limit;
  - Re-test the plant to demonstrate compliance with the emission concentration limit specified;
  - Submit the emissions monitoring report to Sheffield City Council's Environmental Protection Service within 7 days of receipt of the results;
  - Record details of investigation and outcomes in the log book or recording system, kept in accordance with condition 3.21.
- 3.14 Where the results of any non-continuous monitoring exceed the emission concentration limit, the Operator shall inform Sheffield City Council's Environmental Protection Service no later than 10.00 hours the following working day after receipt of the results of the emissions testing.
- 3.15 Prior to any non-continuous monitoring being carried out, the Operator shall ensure that monitoring protocols are submitted to the Environmental Protection Service 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. The Environmental Protection Service at Sheffield City Council shall be informed at least 7 days prior to the intention to carry out periodic monitoring.
- 3.16 The results of annual non-continuous monitoring tests shall be forwarded to Sheffield City Council's Environmental Protection Service, within 8 weeks of completion of the testing.
- 3.17 The introduction of dilution air into duct systems in order to comply with emission limits is not Permitted.
- 3.18 A visual and olfactory assessment of fugitive fume and smoke emissions from the rotary drying furnaces shall be carried out at least once a day during operation. The duration of the assessment shall be for a minimum of one minute. All results of observations shall be recorded in accordance with condition 3.21.
- 3.19 A visual and olfactory assessment of fugitive emissions from the melting furnaces shall be carried out at least once a day during melting. The duration of the assessment shall be for a minimum of one minute. All results of observations shall be recorded in accordance with condition 3.21.

- 3.20 The Operator shall ensure that any adverse result from an assessment carried out in accordance with Permit conditions is 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 3.21.
- 3.21 The Operator shall ensure that records of details and results of all actions made in accordance with conditions 3.13, 3.18, 3.19, 3.20, 3.22, 6.2, 6.3, 7.2, 9.3, 12.5 and 13.1 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 records shall be kept at the installation 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.
- 3.22 In any case of an abnormal emission or alarm event, the Operator shall:
- Identify the cause of the emission and take corrective action immediately;
  - Adjust or cease the process or activity to minimise the emissions;
  - Record details of the incident describing the nature and extent of the problem and the remedial actions taken, in accordance with condition 3.21.
- 3.23 The Operator shall inform Sheffield City Council's Environmental Protection Service within one day in the 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.

- 3.24 Results of non-continuous monitoring shall include details of process conditions at the time of monitoring, monitoring uncertainty and any deviations from the procedural requirements of standard reference methods and any error invoked from such deviations.

#### **Section 4 - Metal Decontamination Control Techniques.**

- 4.1 Emissions of particulate matter, organic compounds and chlorides from the two rotary drying furnaces shall be contained, extracted and abated to meet the emission limits specified in condition 3.8 of this Permit.
- 4.2 The rotary drying furnaces shall not be overloaded, in order to ensure that maximum efficiency is achieved and to minimise the production of smoke and other products of incomplete combustion.
- 4.3 Loading of the main chambers of the rotary drying furnaces shall not occur until the secondary burner chamber has reached a minimum temperature of 800°C.
- 4.4 The secondary combustion chambers of the rotary drying furnaces shall be maintained at a temperature of at least 800°C and the residence time of gases in the chamber shall be at least 2 seconds.
- 4.5 The temperature of the afterburners serving the rotary drying furnaces shall be continuously monitored and set to alarm if the temperature falls below 800°C.
- 4.6 The rotary drying furnaces feed conveyors shall be interlocked such that when the temperature of the afterburner falls below 750°C the feed conveyor is stopped automatically.
- 4.7 Temperature readings shall be on display to appropriately trained operating staff.

#### **Section 5 – Melting Control Techniques.**

- 5.1 Emissions during pouring and casting of metal from the induction furnaces shall be contained by the furnace hoods, as far as reasonably practicable. The hoods shall be directly ducted to the cartridge filters.
- 5.2 The ceramic and fabric filters serving the degreasing and melting operations shall be cleaned automatically by reverse air jets throughout degreasing and melting activities.

## **Section 6 - Continuous Indicative Monitors.**

- 6.1 The particulate continuous emissions monitors serving the degreasing and melting plant shall be fitted with alarms which are set to trigger at a reference level which equates to a concentration of  $15 \text{ mg/m}^3$  for the degreasing plant, and  $7.5 \text{ mg/m}^3$  for the melting monitors. The activation of alarm events shall be automatically recorded.
- 6.2 The continuous indicative monitors, alarms and dataloggers shall be checked at least once a day to ensure sound operation. Details of these checks shall be recorded in accordance with condition 3.21.
- 6.3 The continuous indicative monitors and data loggers shall be calibrated and serviced annually and maintained in accordance with the manufacturer's recommendations. Details of all maintenance and calibration shall be recorded in accordance with condition 3.21 of this Permit.
- 6.4 The 2 cartridge filters serving the melting furnaces and the ceramic filters serving the degreasing furnaces shall each be fitted with a magnehelic gauge.
- 6.5 An alarm event procedure shall be written and implemented detailing what steps shall be taken in the event of an alarm from any of the particulate continuous emissions monitors.
- 6.6 Six monthly summaries of automatically recorded emissions and alarm events from the continuous monitors serving the (melting) fabric filters and the (degreasing) ceramic filters shall be submitted to Sheffield City Council's Environmental Protection Service within 2 weeks of the end of the agreed six month period.
- 6.7 All continuous monitoring readings shall be on display to appropriately trained operating staff.

## **Section 7- Maintenance of Abatement Plant.**

- 7.1 The Operator shall provide a list of key abatement plant to Sheffield City Council's Environmental Protection Service, within 2 weeks of the date of issue of this Permit and have a written procedure for dealing with its failure.
- 7.2 All malfunctions or breakdowns leading to visible or odorous 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 log book or recording system kept in accordance with condition 3.21. If an effect on the local community is likely, the Operator shall inform Sheffield City Council's Environmental Protection Service within 1 working day.

- 7.3 Effective, preventative maintenance shall be employed on all plant and equipment concerned with the control of emissions to air.
- 7.4 Plant and equipment shall be operated and maintained in accordance with the manufacturer's recommendations.
- 7.5 An audit of items of pollution abatement plant and equipment shall be undertaken. The audit shall identify all plant and equipment that is critical to prevent, reduce or control emissions from the installation, including but not limited to filters, alarms, monitoring and detection systems, afterburners, bunds and Spill Kits. A copy of the audit shall be submitted to Sheffield City Council's Environmental Protection Service for written approval within 8 weeks of the date of this Permit.
- 7.6 A preventative maintenance schedule shall be produced for all plant and equipment identified from the audit required by condition 7.5. A copy of the maintenance schedule shall be submitted to Sheffield City Council's Environmental Protection Service for written approval within 8 weeks of the date of this Permit.
- 7.7 The preventative maintenance schedule required by condition 7.6 shall be available on site for inspection by authorised officers of Sheffield City Council's Environmental Protection Service.
- 7.8 Records of breakdowns and plant failure shall be kept and analysed in order to eliminate common failures. The records shall be made available for inspection by officers of Sheffield City Council's Environmental Protection Service on demand.

### **Section 8 - Materials Handling.**

- 8.1 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.
- 8.2 The Operator 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.
- 8.3 Arrested particulate matter from filters shall be collected directly into heavy duty bags or collection receptacles under the arrestment plant. The bags or receptacles shall be sealed before being deposited in the waste skip, in order to minimise emissions of particulate matter and prevent the double handling of fines.

- 8.4 Spares and consumables subject to continual wear such as ceramic or cartridge filters shall be held on site or shall be available within 24 hours from guaranteed suppliers.
- 8.5 All potentially dusty materials shall be stored in covered containers or under cover.

### **Section 9 - Stacks, Vents and Exhausts.**

- 9.1 Chimneys or process vents shall not be fitted with any restriction at the final opening, for example, a plate, cap or cowl. A cone fitted at the chimney exit to increase efflux velocity is Permitted. The discharge shall be vertically upwards.
- 9.2 Stacks shall be adequately insulated to minimise cooling of waste gases and steam to prevent liquid condensation. Stacks and ductwork shall be leak proof.
- 9.3 Chimney flues and ductwork shall be inspected at least once every 12 months and cleaned as necessary in order to prevent accumulation of material both on the internal ducting and on external ledges. Details of the inspection and any cleaning necessary as a result of the inspection shall be recorded in the log book kept in accordance with Condition 3.21 of this Permit.

### **Section 10 - Records and Training.**

- 10.1 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;
  - Actions during abnormal emissions including dust suppression.
- 10.2 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 Sheffield City Council's Environmental Protection Service upon request.

10.3 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;
- f) 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.

#### **Section 11 – Complaints.**

11.1 Within 2 weeks of the date of issue of this Permit, the Operator shall submit a written complaints procedure to Sheffield City Council's Environmental Protection Service to be followed by the Operator in the event of any complaint from the general public, for approval in writing.

#### **Section 12 - General Conditions.**

12.1 The Operator shall notify the following to Sheffield City Council's Environmental Protection Service, in writing, within 14 days of their occurrence:-

- Any change in the trading name of Tivac Alloys Limited registered name or registered office address;
- A change to any particulars of any ultimate holding company of Tivac Alloys Limited (including details of an ultimate holding company where Tivac Alloys Limited has become a subsidiary);
- Any steps taken with a view to Tivac Alloys Limited going into administration, entering into a company voluntary arrangement or being wound up.

12.2 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.

12.3 The Operator shall give written notification to Sheffield City Council's Environmental Protection Service 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 Permitted Installation for a period, likely to exceed 1 year;
- c) Resumption of the operation of any part of, or all of the Permitted installation after a cessation notified under (b) above.

12.4 All reports and notifications required by this Permit, or under any Regulation under the Environmental Permitting (England and Wales) Regulations 2010, as amended, shall be sent to Sheffield City Council's Environmental Protection Service. Unless notified in writing, all reports, notifications and communications in respect of this Permit shall be sent to:

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

**Or [ippc@sheffield.gov.uk](mailto:ippc@sheffield.gov.uk).**

- 12.5 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 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 wet sweeping methods or vacuuming in order to minimise emissions of particulate matter to air. A record of the inspection and cleaning shall be recorded in the log book kept in accordance with condition 3.21 of this Permit.

END OF PERMIT 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 1<sup>st</sup> April of each year.

In the event that the Permit has been issued after the 1<sup>st</sup> 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 Sheffield City Council's Environmental Protection Service then Permit revocation procedures shall be initiated in accordance with Section 22 of the Environmental Permitting (England & Wales) Regulations 2010 as amended or any statutory re-enactment of the same.

The requirements of this Permit are not to be taken as planning permission. Where any structural alterations are necessary to ensure compliance with this Permit then the normal planning channels should be followed.

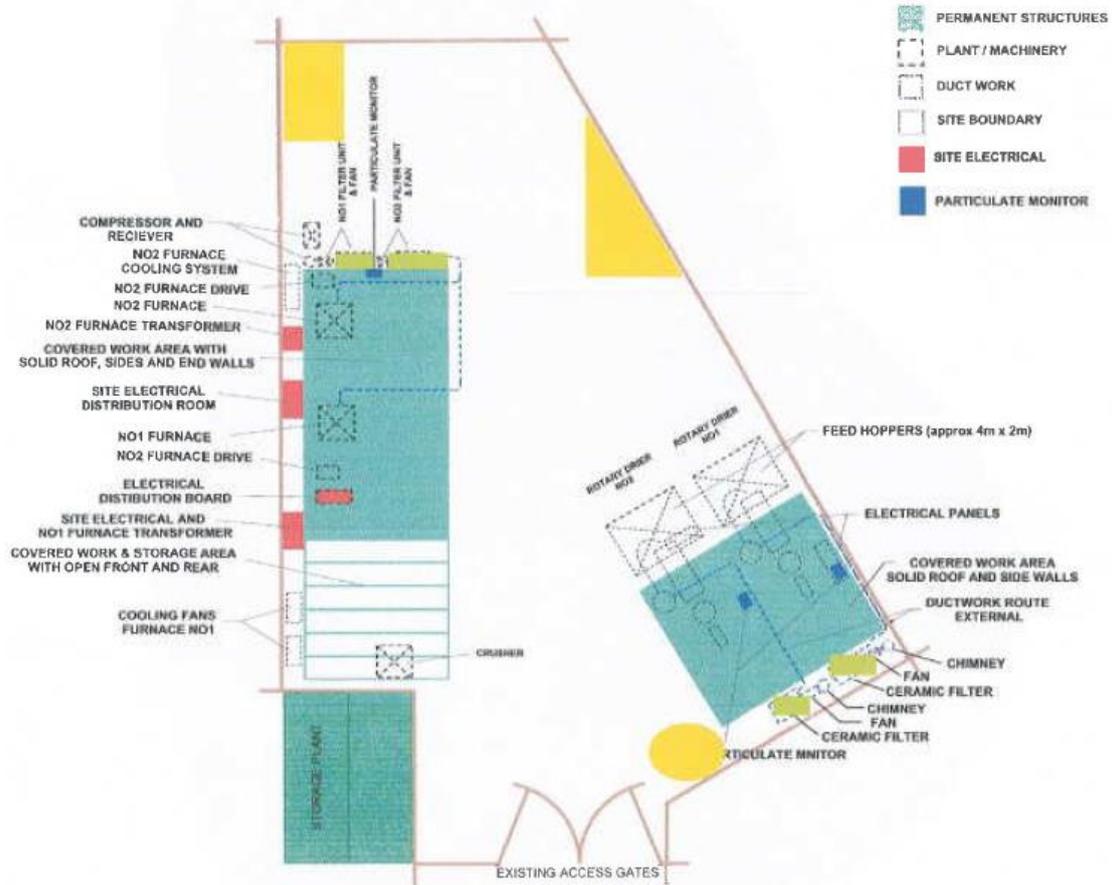
**Schedule 1 – Installation Location and Boundary.**





Bulk Storage swarf & solids

Abatement & Monitoring



PLAN VIEW ON EXISTING SITE LAYOUT SHOWING PLANT / MACHINERY  
Scale 1:200

**Schedule 2b – Installation Layout.**