

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Sheffield Forgemasters International Limited

Brightside Lane
Sheffield
South Yorkshire
S9 2SU

Variation application number

EPR/ZP3935LP/V008

Permit number

EPR/ZP3935LP

Sheffield Forgemasters International Limited

Permit number EPR/ZP3935LP

Introductory note

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

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

This variation has been issued to consolidate the original permit and subsequent variations, to update some of the conditions following a statutory review of permits in the Metals Sector and to introduce a number of changes due to the transposition of the Industrial Emissions Directive. At the same time the permit has been converted into the current EPR Permit format.

The Industrial Emissions Directive (IED) came into force on 7th January 2014 with the requirement to implement all relevant BAT conclusions as described in the Commission Implementing Decision. The steelmaking BAT conclusions were published on 8th March 2012 in the Official Journal of the European Union following a European Union wide review of BAT. Unless otherwise stated all relevant BAT conclusions (1, 2, 5-18, 87- 91, 93 and 95) apply from 8th March 2016. We believe the operator is already compliant with all the relevant BAT Conclusions.

The schedules specify the changes made to the permit.

Description of the Installation

The processes covered by this authorisation include steelmaking, forging, casting and processing of bespoke heavy steel components, as well as steel ingot and bar.

Steelmaking in the Melt Shop:

Steel scrap, other raw materials and alloys are melted in a 90 tonne (up to 100 tonne charge weight) Electric Arc Furnace (EAF). The molten steel is tapped from the furnace into a pre-heated ladle which is then transferred into one of the secondary steelmaking units; a Vacuum Arc Degassing unit (VAD), a Vacuum Oxygen Decarburising unit (VOD) and depending on the process route being used, a Ladle Furnace (LF). The function of the secondary steelmaking units is to refine the metallurgical properties of the steel. The molten steel is then cast into ingots, some of which are unprocessed and sold direct to customers whilst others undergo further processing including surface treatment, heat treatment, ingot burning, forging and finishing. Molten steel is also transported in the ladles to the Foundry operations for casting.

The EAF and LF employ primary 4th hole extraction direct from the furnace roof of each unit. For the EAF, this is achieved via water cooled ducting in which a gap allows air to be drawn in to cool the hot furnace gases and to promote combustion of carbon monoxide to carbon dioxide in the combustion chamber situated downstream immediately adjacent to the furnace. The high temperatures achieved in the combustion chamber destroy any organic gases given off in the process from any materials contaminating the steel scrap.

Secondary fume extraction is also in place. A canopy hood is incorporated in to the high-bay roof of the Melt Shop above the EAF and captures fugitive emissions from the furnace during all its operations. The primary and secondary extraction ducts are connected to a mixing chamber that precedes two extraction fans. The fume and dust laden gases are blown by these fans through the fabric bag filtration plant from which filtered gases are discharged to atmosphere via vents in the ridges of the filtration plant roof.

EAF dust collected in the filtration plant is discharged via the collection hoppers onto enclosed conveyors by which it is transported to a dust storage hopper and discharged in to big bags prior to being sent for off-site recovery or disposal.

Lime is added to the EAF, VOD and ladle furnace to produce a lime based slag that absorbs impurities from the steel. The lime based slag which forms at the surface of the molten steel is separated, processed to

recover metal and stored within the Melt Shop prior to being transported off-site for recovery. The amount of slag produced is minimised by careful control of the metallurgical processes.

Steam raising for the vacuum ejectors serving the VAD, VOD and vacuum casting units is generated by four natural gas fired boilers of total thermal input of 14 MWTh. Boiler blow-down is discharged to sewer.

The EAF side panels and hood cooling is provided via a once-through pumped system of river water abstracted from and returned straight to the River Don. Water cooled components on the VAD, VOD, EAF and LF are served via a closed loop system which is topped up when required. The LF also has a water cooled roof which is served by a separate cooling tower; this cooling system is also closed loop. River water is used to top up the 3 cell VAD, VOD and stream degassing vacuum ejector system cooling tower. This cooling system is closed loop, however, water is lost through evaporation and thus top up is required. The dust entrained condensate from this cooling tower is treated via the Silbuster water filtration system to remove the solids. The filtered effluent is discharged to sewer and the filter cake is deposited in to a skip to be transported off-site for recovery or disposal.

Five annealing furnaces are installed within the Melt Shop for heat treating ingots immediately after stripping the moulds as an energy saving measure. The furnaces are each equipped with two 0.3MWTh natural gas burners and the combustion gases are vented within the building.

A Snow Grinder is installed in the Melt Shop for surface treatment and rectifying defects in cast ingots. Dust from the grinding operation is extracted and captured in a filtration plant. This same filtration plant also extracts and captures fume from the Melt Shop cutting facility used primarily for cutting scrap down to a suitable size for re-melting.

Wastes arising in the Melt Shop which cannot be reclaimed, recovered or recycled on site are sent off site for recovery or disposal.

Heavy Forge:

In the Forge facility, there are two operational forging presses, "5-Press" and "3-Press", which are integrated with manipulators and overhead cranes & hoists. Both presses are hydraulically operated (3-Press using oil hydraulics, and 5-Press using water hydraulics); and are connected to oil recycling systems via sumps and the Yard Services area. Oil used in the Forge is recycled for internal reuse via reprocessing facilities within the Forge. In addition, an oil/water separator facility is located externally to the north of the building.

The Forge reheat furnaces and heat treatment furnaces are all natural gas fired and have a total installed thermal input of 111MWTh. Forge Reheat Furnaces 1 and 3 are both rated at 7.2MWTh and discharge externally to the building via stacks, as does Forge Reheat Furnace 7 which is rated at 10MWTh. Forge Reheat Furnaces 2, 14 and 28/29 are rated at 4.4, 4.1 and 3.5MWTh respectively and discharge directly into the Forge building. These furnaces are used to reheat steel stock items (ingots and bar) prior to forging or to enhance the properties of forgings.

There are 17 heat treatment furnaces with ratings in the range of 1.8-7.2MWTh, as well as a Selas Furnace rated 2.3MWth. These all discharge combustion gases directly into the Forge building.

All burning and surface rectification operations are carried out in the Forge burning booth. The dust and fume laden gases are captured and extracted through the burning booth hood to a dedicated filtration plant from which cleaned gases are released to atmosphere via a stack and the dust is discharged via hoppers in to bags.

Quenching processes in the Forge use abstracted river water and discharge to controlled waters (Bagley Brook). Releases to sewer consist of process water from cooling and hydraulic systems.

Wastes arising in the Forge which cannot be reclaimed, recovered or recycled on site are sent off site for recovery or disposal.

Foundry:

The Foundry produces large steel castings. The main activities comprise:-

Pattern Shop: Wooden patterns (primarily made from softwood, ply and fibreboard) are used for the construction of moulds and cores. Air containing dusts generated from sawing, cutting, planning and

sanding of wood is extracted to a bag filter for collecting the shavings and dust in to a skip and the cleaned air is discharged to atmosphere.

Mould and Core Production: Moulds and cores are produced using sand mixed with chemical binders. Three types of sand are used – silica, chromite and zircon with silica being the predominant type employed. The sand is delivered by bulk road tanker and is stored in silos. The sand together with chemical binders is fed to mixers prior to dispensing into core/mould boxes or directly into pits for producing larger castings. Some vapours, primarily consisting of furfuryl alcohol, methanol and organic esters, arising from the chemical binders used can be generated during the mixing process. After the sand moulds and cores have set, a water based refractory paint is applied to create castings with a high quality surface finish. The paint is left to air dry or the core is put through a drying oven.

Casting and knock-out: Molten steel for casting is transported to the Foundry, in ladles of up to 90 tonnes capacity, from the Melt Shop by specialist vehicles. The molten metal is poured via refractory lined feeder heads and tubes into the moulds to produce the desired steel casting. This operation generates short-term fugitive dust and fume emissions most of which are contained within the Foundry building but some can escape through roof vents.

Once the castings have cooled, the moulds are stripped and the sand separated for recycling; mould stripping can generate short term fugitive emissions.

Sand reclamation: Used moulding sand is processed in an on-site sand reclamation plant where up to 90% of the sand is recovered for re-use in mould/core production. Material unsuitable for re-use is sent off-site for recycling. The sand reclamation plant uses an extractive ventilation system for dust control and discharges cleaned air to atmosphere after passing through a bag filter.

Finishing operations: Castings are subjected to a number of finishing operations after being stripped from moulds including:

- removal of excess metal, generally by thermal lancing
- shot-blasting to remove adhered casting materials
- rectification of casting defects by arc-air gouging, grinding and welding
- heat treatment to improve mechanical properties
- painting

There are no releases to controlled waters from the Foundry. Water from the quench process is discharged to sewer.

Wastes arising in the Foundry which cannot be reclaimed, recovered or recycled on site are sent off site for recovery or disposal.

Machining:

Many components produced throughout other parts of the site are machined and finished within the North and South Machine Shops. The machine shops contain a wide variety of CNC and manual lathes, borers, grinders, saws and millers providing a range of dry and wet processing capabilities. Cutting fluids, coolants and oils are used throughout the shops. Movement of components throughout the buildings is facilitated by heavy duty cranes. Other activities which take place in the machine shops include Non-destructive Testing (NDT) techniques & analysis and bespoke packaging of products prior to transport of site.

Steel turnings along with other internal metal arisings are returned to the Melt Shop for re-melting. Wastes arising in the machine shops which cannot be reclaimed, recovered or recycled on site are sent off-site for recovery or disposal.

Manufacture of Work Rolls:

The Work Rolls facility is where intermediate work rolls produced in the Forge are finish machined and hardened to suit customer requirements for use in material processing industries.

As in the machine shops, the process involves machining and grinding on a variety of CNC and manual lathes, borers, grinders, saws and millers providing a range of dry and wet processing capabilities; cutting fluids, coolants and oils are used throughout shop.

Heat treatment, annealing and hardening activities are undertaken on a range of natural gas fired and electrical furnaces, as well as water spray quenching, oil quenching and cryogenic treatment. Other activities which take place in the machine shops include Non-destructive Testing (NDT) techniques & analysis and bespoke packaging of products prior to transport of site.

The gas furnaces emit externally from the building. There are no discharges to controlled watercourse from the Work Rolls facility but there is a cooling tower which discharges periodically to sewer.

Wastes arising in Work Rolls which cannot be reclaimed, recovered or recycled on site are sent off-site for recovery or disposal.

West Treatment:

The West Treatment building houses additional electric heating furnaces for heat treatment of large castings and forgings, together with oil quenching and water quenching facilities. The water quench uses abstracted river water and quench water is discharged back to the River Don.

The status log of a permit sets out the permitting history, including any changes to the permit reference number.

Status log of the permit		
Description	Date	Comments
Application BL5890 (Application EPR/BL5890IT/A001)	Received 30/08/01	
Response to request for information	Request dated 12/12/01	30/04/02 and 19/07/02
Request to extend determination	Request dated 11/02/02	
Permit BL5890 determined (EPR/BL5890IT)	Determined 31/07/02	
Transfer ZP3935LP (EPR/ZP3935LP)	Determined 07/03/06	
Variation KP3738MC (EPR/ZP3935LP/V002)	Determined 24/11/06 with effect 01/12/06	Enclosure of slag handling operation and subsuming of slag handling responsibilities. Operation of additional heat treatment furnaces. Operation of a Snow Grinder. Revision of Site boundary.
Variation EPR/ZP3935LP/V003 application	Duly made 22/04/10	
New plant utilisation/ furnace gas flow rates	Request dated 23/04/10	Response 26/04/10
Waste Quantities for variation change activities	Request dated 29/04/10	Response 05/05/10
Installation Name	Request dated 04/05/10	Response 04/05/10
Additional Information request including questions on Siltbuster and new A30 particulate abatement	Request dated 29/04/10	Response 01/06/10
Waste Minimisation Audit Timing	20/05/10	Received
Atmospheric Monitoring Standards Clarifications	Request dated 05/05/10	Responses 05/05/10 and 07/05/10
Furnace installation and stack optimisation questions	Request date 13/05/10	Final Version Response 11/06/10
Updated operator NOx modelling.	Received 09/07/10	
Updated site plan	Received 15/07/10	
Schedule 5 dated 01/06/10	Response 30/07/10	
Updated Raw Materials application supplementary submission C-2e	Response 30/07/10	

Status log of the permit		
Description	Date	Comments
Atmospheric Modelling Clarifications and Implications	Request date 07/07/10	Response 04/08/10
Siltbuster suspended solids monitoring and process control further details	Request date 02/08/10	Response 04/08/10
Variation EPR/ZP3935LP/V003 issued	Determined 15/09/10	
Variation EPR/ZP3935LP/V004 Application	Duly made 09/06/11	
Schedule 5 response	Request date 14/06/11	Response 22/06/11
Variation EPR/ZP3935LP/V004 issued	Determined 08/07/11	
Application for partial surrender (EPR/ZP3935LP/S005)	Duly made 24/08/11	
Partial Surrender issued (EPR/ZP3935LP/S005) (PAS Reference WP3632FL)	19/10/11	
Application for variation (EPR/ZP3935LP/V006)	Duly made 04/12/12	Variation to include a Drying Oven at the Foundry for the moulds and cores.
Variation Notice EPR/ZP3935LP/V006 (PAS Reference WP3339ZG)	Issued 04/03/13	
Agency variation determined EPR/ZP3935LP/V007 (PAS reference PP3430VM)	13/02/14	Agency variation to implement the changes introduced by IED
Regulation 60 Notice dated 13/09/13	30/04/14	Section 1 BAT Section 2 – Revised Site Condition Report
Additional Information	26/08/14	Appended to regulation 60 response and detailed in Sections 3-6 & Appendix 7
Permit Review Environment Agency variation determined EPR/ZP3935LP/V008	30/7/15	(PAS Reference EP3134VR) (Waste activity reference EAWML 402649)

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2010

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies and consolidates

Permit number

EPR/ZP3935LP

Variation reference

EPR/ZP3935LP/V008

Issued to

Sheffield Forgemasters International Limited ("the operator")

whose registered office is

PO Box 286
Brightside Lane
Sheffield
South Yorkshire
S9 2RW

company registration number **4883675**

to operate a regulated facility at

Brightside Lane Facility
Brightside Lane
Sheffield
South Yorkshire
S9 2SU

to the extent set out in the schedules.

The notice shall take effect from 30/07/2015

Name	Date
Anne Nightingale	30/07/2015

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied by the consolidated permit as a result of an Environment Agency initiated variation.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number

EPR/ZP3935LP

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/ZP3935LP/V008 authorising,

Sheffield Forgemasters International Limited (“the operator”),

whose registered office is

PO Box 286
Brightside Lane
Sheffield
South Yorkshire
S9 2RW

company registration number **4883675**

to operate an installation at

Brightside Lane Facility
Brightside Lane
Sheffield
South Yorkshire
S9 2SU

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

Name	Date
Anne Nightingale	30/07/2015

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
 - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

1.2 Energy efficiency

- 1.2.1 The operator shall:
- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
 - (b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
 - (c) take any further appropriate measures identified by a review.

1.3 Efficient use of raw materials

- 1.3.1 The operator shall:
- (a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
 - (b) maintain records of raw materials and water used in the activities;
 - (c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and
 - (d) take any further appropriate measures identified by a review.

1.4 Avoidance, recovery and disposal of wastes produced by the activities

- 1.4.1 The operator shall take appropriate measures to ensure that:
- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
 - (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
 - (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.
- 1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

2 Operations

2.1 Permitted activities

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the “activities”).
- 2.1.2 Waste authorised by this permit shall be clearly distinguished from any other waste on the site.

2.2 The site

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

2.3 Operating techniques

- 2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.3 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.4 Waste shall only be accepted if:
 - (a) it is of a type and quantity listed in schedule 2 table(s) S2.2; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.5 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
 - (a) the nature of the process producing the waste;
 - (b) the composition of the waste;
 - (c) the handling requirements of the waste;
 - (d) the hazardous property associated with the waste, if applicable; and
 - (e) the waste code of the waste.
- 2.3.6 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

2.4 Improvement programme

- 2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.
- 2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

3 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1, S3.2 and S3.3.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 The operator shall:
 - (a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
 - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.3 Odour

- 3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.
- 3.3.2 The operator shall:
 - (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
 - (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.4 Noise and vibration

- 3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.

3.4.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
- (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.5 Monitoring

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

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

3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.

3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.

3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1 unless otherwise agreed in writing by the Environment Agency.

4 Information

4.1 Records

4.1.1 All records required to be made by this permit shall:

- (a) be legible;
- (b) be made as soon as reasonably practicable;
- (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
- (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
 - (i) off-site environmental effects; and
 - (ii) matters which affect the condition of the land and groundwater.

4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

4.2 Reporting

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

- 4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:
- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
 - (b) the annual production / treatment data set out in schedule 4 table S4.2; and
 - (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.
- 4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
 - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4 ; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.
- 4.2.5 Within one month of the end of each year, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous year.

4.3 Notifications

- 4.3.1 In the event:
- (a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
 - (i) inform the Environment Agency,
 - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
 - (iii) take the measures necessary to prevent further possible incidents or accidents;
 - (b) of a breach of any permit condition the operator must immediately—
 - (i) inform the Environment Agency, and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
 - (c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.
- 4.3.2 Any information provided under condition 4.3.1(a)(i) or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency

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

- 4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

- (a) any change in the operator's trading name, registered name or registered office address; and
- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

- (a) any change in the operator's name or address; and
- (b) any steps taken with a view to the dissolution of the operator.

In any other case:

- (a) the death of any of the named operators (where the operator consists of more than one named individual);
- (b) any change in the operator's name(s) or address(es); and
- (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

- 4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:

- (a) the Environment Agency shall be notified at least 14 days before making the change; and
- (b) the notification shall contain a description of the proposed change in operation.

- 4.3.6 The Environment Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.

- 4.3.7 Where the operator has entered into a climate change agreement with the Government, the Environment Agency shall be notified within one month of:

- (a) a decision by the Secretary of State not to re-certify the agreement;
- (b) a decision by either the operator or the Secretary of State to terminate the agreement; and
- (c) any subsequent decision by the Secretary of State to re-certify such an agreement.

4.4 Interpretation

- 4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.

- 4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "immediately", in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
A1	S 2.1 Part A(1) (b)	Producing, melting or refining iron or steel or any ferrous alloy, including continuous casting in electric arc furnaces with a designed holding capacity of more than 7 tonnes	Note (1)
A2	S 2.1 Part A(2) (d)	Casting ferrous metal at a foundry with a capacity of > 20 tonnes per day	Note (1)
A3	S 1.1 Part A(1) (a)	Burning any fuel in an appliance with a rated thermal input of 50 or more megawatts	Note (1)
A4	S 5.4 A(1) (a) (ii)	Disposal of non-hazardous waste in a facility with a capacity exceeding 50 tonnes per day by physico-chemical treatment	Note (1)
Directly Associated Activity			
A5	Associated activity	Storage, processing and handling of scrap	Note (1)
A6	Associated activity	Secondary steel making	Note(1)
A7	Associated activity	Ladle repair	Note (1)
A8	Associated activity	Pattern making	Note (1)
A9	Associated activity	Mould/core making	Note (1)
A10	Associated activity	Surface rectification	Note (1)
A11	Associated activity	Forging	Note (1)
A12	Associated activity	Heat treatment including water quenching, oil quenching and cryogenics	Note (1)
A13	Associated activity	Thermal lancing	Note (1)
A14	Associated activity	Machining	Note (1)
A15	Associated activity	Handling and processing slag	Note (1)
Description of activities for waste operations		Limits of activities	
A16	R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) R4: Recycling/reclamation of metals and metal compounds	Treatment operations shall be limited to: Physical treatment including screening, crushing, baling, for the purpose of recovery. Waste types as specified in Table 2.2	

Note (1): The limits of specified and associated activities collectively comprise all activities carried out in the installation between the receipt of raw materials and the supply of finished products.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application BL5890 (EPR/BL5890IT/A001)	The response to questions 2.3 given in section 2.3 of the application.	30/08/01
Application KL3738MC (EPR/ZP3935LP/V002)	Application supplementary information section 2.1 Slag handling addition, annealing furnaces and snow grinder.	08/09/06
Application EPR/ZP3935LP/V003	The response to question 2a) and 2b) in application form C.	17/03/10
Additional Information Request dated 29-04-10	Question 6 response regarding Siltbuster effluent treatment operating procedures	01/06/10
Additional Information Request dated 29/0410	Question 5 response regarding Siltbuster effluent treatment operating procedures	01/06/10
Schedule 5 dated 02-06-10	Question 2 related to Siltbuster Water Filter Controls and question 10 related to Selas Furnace Forge Area operation.	30/07/10
Siltbuster suspended monitoring and process control operation details	Request date 02/08/10	04/08/10
Change in operation request – Thermal Stability Unit and Wood Treatment	E-mail and letter dated 07 October 2010.	07/10/10
Sheffield Forgemasters Noise Management Plan Version 1	All	07/06/11
Application EPR/ZP3935LP/V004	The response to question 3 a) in application form C3.	Duly made 09/06/11
Schedule 5 dated 14/06/11	All.	22/06/11
Application EPR/ZP3935LP/V006	The response to all of forms C2 and C3 and supporting application documentation.	Duly made 04/12/2012
Response to Regulation 60 Notice dated 13/09/13	Technical standards detailed in sections 1 and 2 of the notice provided under Regulation 60 of Environmental Permitting Regulations. Best available techniques as described in BAT conclusions under Directive 2010/75/EU of the European Parliament and of the Council on industrial emissions for iron and steel production	30/04/14
Additional Information	Appended to regulation 60 and detailed in Sections 3-6 & App. 7	26/08/14
Change in operation request – Forge Water Quenching Facility	E-mail and letter dated 18 December 2014	18/12/14

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	<p>Based on the outcome of the assessments of emissions of PM₁₀ and NO₂ from the installation on the environment; the Operator shall produce an action plan for the further reduction of the total installation NO₂ and PM₁₀ particulate environmental process contribution. The report shall include but need not be limited to a review covering:</p> <p>Options reviewed related to balance of the benefits of individual furnace stacks relative to multi flue stack design (consideration of environmental benefit relative to economic and feasibility issues)</p> <p>Optimum stack positioning and height with regard to existing plant restrictions.</p> <p>Furnace improvements in line with indicative BAT measures.</p> <p>Furnace operating conditions balancing optimum performance and NOx emissions including Furnace oxygen levels and air pre-heating temperatures.</p> <p>The action plan should include timescale and evidence of incremental process contribution improvements, where possible, for measures listed in the action plan. The measures detailed in the report shall be implemented by the Operator from the date of approval in writing by the Environment Agency.</p>	<p>Scoping report within 3 months of issue of variation EPR/ZP3935LP/V008 Action Plan within 12 of issue of same variation</p>

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
-	-

Table S2.2 Permitted waste types and quantities for use in the melt shop	
Maximum quantity	No annual maximum throughput subject to storage limits for specified waste in Table S1.1
Waste code	Description
02	Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing
02 01	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 10	waste metal
10	Wastes from thermal processes
10 02	wastes from the iron and steel industry
10 02 01	wastes from the processing of slag
10 02 02	unprocessed slag
10 02 08	solid wastes from gas treatment other than those mentioned in 10 02 07
10 02 10	mill scales
10 03	Wastes from aluminium thermal metallurgy
10 03 05	Waste alumina
10 09	wastes from casting of ferrous pieces
10 09 06	casting cores and moulds which have not undergone pouring other than those mentioned in 10 09 05
10 09 08	casting cores and moulds which have undergone pouring other than those mentioned in 10 09 07
10 09 10	flue-gas dust other than those mentioned in 10 09 09
10 09 12	other particulates other than those mentioned in 10 09 11
12	Wastes from shaping and physical and mechanical surface treatment of metals and plastics
12 01	wastes from shaping and physical and mechanical surface treatment of metals and plastics
12 01 01	ferrous metal filings and turnings
12 01 02	ferrous metal dust and particles
12 01 03	non-ferrous metal filings and turnings
12 01 04	non-ferrous metal dust and particles
12 01 13	Welding wastes
12 01 15	machining sludges other than those mentioned in 12 01 14
12 01 17	waste blasting material other than those mentioned in 12 01 16
15	Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified
15 01	packaging (including separately collected municipal packaging waste)
15 01 04	Metallic packaging
16	Wastes not otherwise specified in the list

Table S2.2 Permitted waste types and quantities for use in the melt shop	
Maximum quantity	No annual maximum throughput subject to storage limits for specified waste in Table S1.1
Waste code	Description
16 01	end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)
16 01 17	Ferrous metal
16 01 18	Non-ferrous metal
16 02	wastes from electrical and electronic equipment
16 02 14	discarded equipment other than those mentioned in 16 02 09 to 16 02 13
16 02 16	components removed from discarded equipment other than those mentioned in 16 02 15
16 11	waste linings and refractories
16 11 02	carbon-based linings and refractories from metallurgical processes other than those mentioned in 16 11 01
16 11 04	other linings and refractories from metallurgical processes other than those mentioned in 16 11 03
17	Construction and demolition wastes (including excavated soil from contaminated sites)
17 04	metals (including their alloys)
17 04 01	Copper, bronze, brass
17 04 02	Aluminium
17 04 03	lead
17 04 05	Iron and steel
17 04 07	Mixed metals
19	Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use
19 01	wastes from incineration or pyrolysis of waste
19 01 02	Ferrous metals removed from bottom ash
19 10	wastes from shredding of metal-containing wastes
19 10 01	Iron and steel waste
19 10 02	Non-ferrous waste
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 02	Ferrous metals
19 12 03	Non-ferrous metal
20	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions
20 01	separately collected fractions (except 15 01)
20 01 40	Metals

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 [Point A1 on site plan in Schedule 7]	Melting Shop, Bag Filter plant roof vents	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	No limit set	Hourly average	Annual	BS EN 14792
		Carbon Monoxide	No limit set	Hourly average	Annual	BS EN 15058
		Particulate matter	5 mg/m ³	Daily average	Continuous	Principals of BS EN 14181 ⁽²⁾
		Sulphur dioxide	No limit set	15 minute average	Annual	BS EN 14791
		VOC's (as Carbon)	No limit set	Hourly average	Annual	BS EN 12619
		Dioxins and furans (ITEQ)	0.1ng/m ³ (1)	Minimum 6 hour; maximum 8 hour	Annual	BS EN1948: Parts 1,2 and 3 and MID
		Metals Ni, As, Cd, Cr, Cu, Pb, Hg, Fe, Zn and their compounds (total)	No limit set	periodic over minimum 30 minute, maximum 8 hour period	Annual	BS EN 14385
		Mercury and its compounds	0.05 mg/m ³ (1)	periodic over minimum 4 hours	Annual	BS EN 13211
A2 [Point A2 on Site Plan in Schedule 7]	Snow Grinder and Melt Shop Flame Cutting Facility	Particulate matter	5mg/m ³ (1)	Hourly Average	Annual	BS EN 13284-1 and MID
A3 [Point A3 on Site Plan in Schedule 7]	Forge Ingot Burning, Bag Filter plant stack	Particulate matter	10mg/m ³ (1)	Hourly Average	Annual	BS EN 13284-1 and MID
A4–A7 [Points A4-A7 on Site Plan in Schedule 7]	Gas-fired boiler plant stacks (4 of)	Oxides of Nitrogen (as NO ₂)	200 mg/m ³ (1)	Hourly Average	Annual	BS EN 14792
A8 [Point A8 on Site Plan in Schedule 7]	Forge Heating Furnace No. 1 stack	Oxides of Nitrogen (as NO ₂)	800 mg/m ³ (1)	Hourly Average	Annual	BS EN 14792
A9 [Point A9 on Site Plan in Schedule 7]	Forge Heating Furnace No. 7 stack	Oxides of Nitrogen (as NO ₂)	550 mg/m ³ (1)	Hourly Average	Annual	BS EN 14792

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A11 [Point A11 on Site Plan in Schedule 7]	Heavy Forge Roof Vents (Exhausts from Forge-Furnaces 2, 14, 17, 28/29, Selas Furnace and Heat Treatment Furnaces NTP 1 to 16 and 20a/b)	No parameters set	No limits set	-	-	-
A12 [Point A12 on Site Plan in Schedule 7]	Foundry Pattern Shop Bag Filter Vent	No parameters set	No limits set	-	-	-
A13 [Points A13 on Site Plan in Schedule 7]	Foundry Shotblast Stack	Particulate Matter	10mg/m ³ (1)	Hourly Average	Annual	BS EN 13284-1 and MID
A14 [Point A14 on Site Plan in Schedule 7]	Foundry Sand Reclamation Plant Duct	Particulate Matter	10mg/m ³ (1)	Hourly Average	Annual	BS EN 13284-1 and MID
A15 [Point A15 on Site Plan in Schedule 7]	Foundry Burning Booth Stack	Particulate Matter	10mg/m ³ (1)	Hourly Average	Annual	BS EN 13284-1 and MID
A16-A19 [Points A16-A19 on Site Plan in Schedule 7]	Foundry Welding Extraction Vents (4 of)	No parameters set	No limits set	-	-	-
A20 [Point A20 on Site Plan in Schedule 7]	Foundry Heat Treatment Furnaces Stacks (FH1)	Oxides of Nitrogen (as NO ₂)	200 mg/m ³ (1)	Hourly Average	Annual	BS EN 14792
A21 [Point A21 on Site Plan in Schedule 7]	Foundry Heat Treatment Furnaces Stacks (FH2)	Oxides of Nitrogen (as NO ₂)	200 mg/m ³ (1)	Hourly Average	Annual	BS EN 14792
A22 [Point A22 on Site Plan in Schedule 7]	Foundry Heat Treatment Furnaces Stacks (FH3)	Oxides of Nitrogen (as NO ₂)	200 mg/m ³ (1)	Hourly Average	Annual	BS EN 14792
A23 [Point A23 on Site Plan in Schedule 7]	Foundry Hilco Vacuum Vent	No parameters set	No limits set	-	-	-
A24 [Point A24 on Site Plan in Schedule 7]	Foundry Chromite Hopper Vent	No parameters set	No limits set	-	-	-
A25 [Point A25 on Site Plan in Schedule 7]	Foundry Refractory Saw Vent	No parameters set	No limits set	-	-	-
A26 [Point A26 on Site Plan in Schedule 7]	Foundry 30t Resin Storage Tank Vent	No parameters set	No limits set	-	-	-
A27 [Point A27 on Site Plan in Schedule 7]	90 tonne Melting Shop VAD/VOD Vacuum System Vent	No parameters set	No limits set	-	-	-

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A28 [Point A28 on Site Plan in Schedule 7]	Melting Shop Low Casting Bay roof vents (Furnaces 251-255)	No parameters set	No limits set	-	-	-
A29 [Point A29 on Site Plan in Schedule 7]	Foundry roof vents	No parameters set	No limits set	-	-	-
A31 [Point A31 on Site Plan in Schedule 7]	Forge Heating Furnace No.3 stack	Oxides of Nitrogen (as NO ₂)	800mg/m ³ (1)	Hourly Average	Annual	BS EN 14792
A32 [Point A32 on Site Plan in Schedule 7]	Foundry Drying Oven Vent	No parameters set	No limits set	-	-	-
A33-A41 [Points A33-A41 on Site Plan in Schedule 7]	Work Rolls Furnaces	No parameters set	No limits set	-	-	-

Note 1: Refers to any representative manual spot sample

Note 2: Continuous Emission Monitoring systems shall be quality assured using the following general principles in BS EN 14181: functionality testing with full linearity, and verification with parallel tests using a standard reference method.

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1	Cooling water from 90 tonne electric arc furnace to the River Don	Temperature	30°C	Random spot sample	Quarterly	Calibrated thermometer
W4	Screens backwash from water abstraction for Works to River Don	No parameters set	No limits set	-	-	-
W5	Quench water from west treatment plant (water quench facility for heat treatment plant including oil quench heat exchanger cooling water) to River Don	Suspended Solids	50mg/l	Random spot sample or 24-hour composite sample	Quarterly	SCA blue book 105 ISBN 011751957X
		Temperature	30oC	Random spot sample	Quarterly	Calibrated thermometer
W6	Quench water from quench water treatment tanks and surface water from Heavy Forge to Bagley Brook	Suspended Solids	50mg/l	Random spot sample or 24-hour composite sample	Quarterly	SCA blue book 105 ISBN 011751957X
		Temperature	30°C	Random spot sample	Quarterly	Calibrated thermometer
W7	Surface water drainage from Heavy Forge (East) to Bagley Brook	No parameters set	No limits set	-	-	-

Table S3.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
S1 emission to Yorkshire Water Blackburn Meadows Sewage Treatment Works	From Heavy Forge	No parameters set	No limits set	-	-	-
S2 emission to Yorkshire Water Blackburn Meadows Sewage Treatment Works	Boiler blow down from gas fired boiler plant	No parameters set	No limits set	-	-	-
S3 emission to Yorkshire Water Blackburn Meadows Sewage Treatment Works	Cooling water from VAD and VOD condensers in 90 tonne melting shop	No parameters set	No limits set	-	-	-
S5 emission to Yorkshire Water Blackburn Meadows Sewage Treatment Works	Selas Furnace water quenching	No parameters set	No limits set	-	-	-
S6 emission to Yorkshire Water Blackburn Meadows Sewage Treatment Works	Spray quench vessel	No parameters set	No limits set	-	-	-
S7 emission to Yorkshire Water Blackburn Meadows Sewage Treatment Works	Water/oil quench	No parameters set	No limits set	-	-	-
S8 emission to Yorkshire Water Blackburn Meadows Sewage Treatment Works	Foundry quench water	No parameters set	No limits set	-	-	-
S9 emission to Yorkshire Water Blackburn Meadows Sewage Treatment Works	90 tonne EAF ring pump and steam ejector system	No parameters set	No limits set	-	-	-

Schedule 4 – Reporting

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

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to air Parameters as required by condition 3.5.1.	A1, A2, A3, A4, A5, A6, A7, A8, A9, A13, A14, A15, A20, A21, A22 & A31	Every 12 months	1 January of each year
Emissions to air Parameters as required by condition 3.5.1.	A1	Every 6 months	1 January and 1 July of each year
Emissions to water Parameters as required by condition 3.5.1	W1, W5, W6	Every 3 months	1 January, 1 April, 1 July and 1 October of each year

Parameter	Units
-	-

Parameter	Frequency of assessment	Units
Water usage	Annually	tonnes
Energy usage	Annually	MWh

Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by the Environment Agency	01/01/15
Air	Form particulate 1 or other form as agreed in writing by the Environment Agency	01/01/15
Water & Land	Form water 1 or other form as agreed in writing by the Environment Agency	01/01/15
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	01/01/15
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	01/01/15
Waste subject to Condition 4.2.5	Waste tonnage return form from the Environment Agency website or other form as agreed in writing by the Environment Agency	N/a

Schedule 5 – Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

(a) Notification requirements for any operation of the activities that gives rise to an incident or accident which significantly affects or may significantly affect the environment	
To be notified immediately	
Date and time of the event	
Description of the incident or accident.	
Reference or description of the location of the incident or accident	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken to limit the environmental consequences of such an incident or accident	
Measures taken to prevent further possible incidents or accidents	

(b) Notification requirements for the breach of any permit condition	
To be notified immediately	
Permit condition	
Intent of condition	
Details of breach and, where relevant,:	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken to ensure compliance is restored within the shortest possible time	

Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Further measures taken, or intended to be taken, to ensure compliance is restored and to prevent a recurrence of the incident or accident	
Further measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

“*accident*” means an accident that may result in pollution.

“*application*” means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

“*authorised officer*” means any person authorised by the Environment Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

“*background concentration*” means such concentration of that substance as is present in:

- for emissions to surface water, the surface water quality up-gradient of the site; or
- for emissions to sewer, the surface water quality up-gradient of the sewage treatment works discharge.

“*disposal*”. Means any of the operations provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“*emissions to land*” includes emissions to groundwater.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2010 No.675 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

“*emissions of substances not controlled by emission limits*” means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission or background concentration limit.

“*groundwater*” means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

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

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

“*quarter*” means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

“*recovery*” means any of the operations provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“*Waste code*” means the six digit code referable to a type of waste in accordance with the List of Wastes (England) Regulations 2005, or List of Wastes (Wales) Regulations 2005, as appropriate, and in relation to hazardous waste, includes the asterisk.

“*Waste Framework Directive*” or “*WFD*” means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste

“*year*” means calendar year ending 31 December.

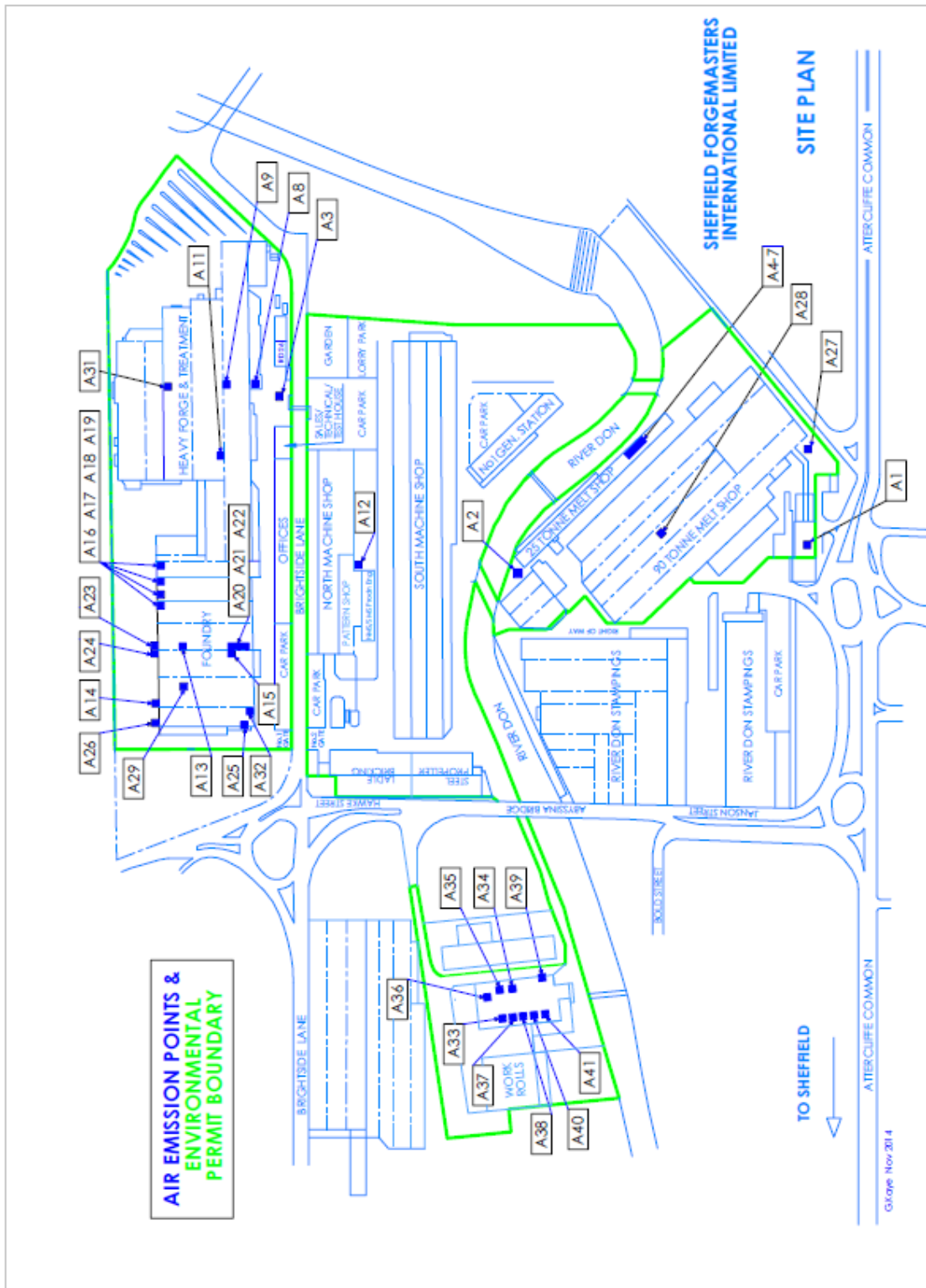
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

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

- in relation to emissions from combustion sources not subject to BAT-AELs for air emissions, the concentration at a temperature of 273.15K, at a pressure of 101.3 kPa, with correction for water vapour content and correction for an oxygen content of 3% dry for liquid and gaseous fuels and 6% dry for solid fuels; and/or

- in relation to emissions from non-combustion sources and not subject to BAT-AELs for air emissions, the concentration at a temperature of 273.15K and at a pressure of 101.3 kPa, with no correction for water vapour content; and/or
- in relation to emissions from non-combustion sources subject to BAT-AELs for air emissions, the concentration at a temperature of 273.15K and at a pressure of 101.3 kPa, with correction for water vapour content; and/or
- in relation to emissions from combustion sources subject to BAT-AELs for air emissions, the concentration at a temperature of 273.15K and at a pressure of 101.3 kPa, with correction for water vapour content and correction for an oxygen content of 3% for blast furnace hot blast stoves.

Schedule 7 – Site plan



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END OF PERMIT