

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Harsco Metals Group Limited
Scunthorpe Integrated Iron and Steel Works
Brigg Road
Scunthorpe
North Lincolnshire

Variation application number

EPR/BL5288IC/V004

Permit number

EPR/BL5288IC

Scunthorpe Integrated Iron and Steel Works

Permit number EPR/BL5288IC

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 6th January 2011 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 (1-18, 52, 68, 69, 79 & 82) apply from 8th March 2016.

In addition when IED came into effect, the description of activities defined as installations changed to include for the first time slag and ash handling as a scheduled activity. This activity has taken place at this facility for many years and has been regulated through this permit principally as activities directly associated to the primary activity of making and refining steel. The revisions to the descriptions of Installations now means that the treatment of ashes and slag is a listed scheduled activity in its own right and has been included in the permit as such as part of this metal sector review.

The schedules specify the changes made to the permit.

Description of the Installation

The main purpose of the associated activities at the installation is coke handling plant, waste oxide briquetting, slabyard operations, slag de-metalling/screening and oversized ferrous scrap processing. These activities are carried out at three distinct locations within the installation.

The Coke Handling Plant

The main purpose of the associated activity at the installation is the screening and crushing of coke to produce a <3.35mm size fraction for use in the iron and steel works sintering operation. The plant typically processes 8300 t/week.

Works produced coke is delivered by Longs Steel via a conveyor and stockpiled awaiting processing. Imported coke is delivered in covered wagons and stockpiled awaiting processing. Oversize fractions screened out are used elsewhere on the iron and steel works. The (22-45) mm size fraction is conveyed into a lorry for transportation to the Ross coke nuts stocking area. Fugitive emissions to air from screening, conveying and crushing are minimised by enclosing the plant as much as is possible.

Three product size coke stockpiles can be present for any grade of coke that has been recently processed: a screened >45mm fraction, the screened <3.35mm fraction and the crushed <3.35mm fraction. Other stockpiles are utilised to provide an option to by-pass the crushing plant. This allows the screening and crushing operations to be de-coupled and simplifies the processing and segregation of different coke grades. Fugitive releases from stockpiles are minimised by spraying with water (recycled from the iron and steel works) as required when dry or windy weather prevails.

A mobile screening operation processes wet coke (pond breeze) from the works. The oversize material is processed through this crushing and screening operation, the undersize is stockpiled awaiting removal by Longs Steel.

Scunthorpe Briquetting Plant (SBP)

The SBP process is within the BOS plant mould bay area to recycle iron oxide solids from the basic oxygen steelmaking (BOS) vessel gas cleaning plant, iron and steelmaking gas cleaning plant dry dusts and millscale sludge from the continuous casting and rolling mill processes operated by Longs Steel.

The briquettes produced are recycled into the steelmaking process as coolant additions to the steelmaking BOS vessels

The process plant consists of three distinct units, namely, BOS slurry dewatering, blending and briquetting.

BOS slurry is pumped to a thickener tank where the densified slurry underflow is pumped via an agitator holding tank onto a bank of high-pressure filtration tube presses. The clarified overflow from the thickener and the tube press filtrate are returned to the BOS/blast furnace slurry lagoons operated by Longs Steel.

The blending plant is supplied with BOS slurry filter cake by a front end loader into a concrete bunker to which millscale and black sand are added and lime at a predetermined rate to provide the required moisture content.

The mix is discharged into a mixer, blended and passed over a screen, oversize material being recycled back into the mixer. The material passing through the screen is stockpiled and allowed to cure prior to briquetting.

The stockpiled blend is then mixed with gas cleaning plant dusts. The dusts are fed from silos into a batching hopper. Polymers are then added as a binder and after a period of mixing the material is discharged onto a briquetting feed conveyor. The briquettes formed in the press are passed over a screen and stockpiled in the building, undersize material being recycled to the blending area.

There are no release points to air. All the main activities are carried out in an enclosed building to minimise fugitive emissions to air. Deliveries of lime and dusts utilise enclosed reception hoppers and containment systems.

Yarborough Metal Recovery and Slag Processing Site

The metal recovery plant takes in steel making process by-products (BOS slag and debris) and processes them to recover different size ranges of steel scrap and slag for re-use by Longs Steel at the integrated steelworks site or transferred to a third party for further processing/use.

The metal recovery plant is a single multi-screening unit capable of screening all required size fractions of metal and slag. Slag produced at one of three different size fractions can then be further processed at secondary crushing and screening plant. Conditioning of plant feed material and the availability of a water bowser for dust suppression, minimise fugitive dust emissions to air.

Oversize metallics (>1500mm) are broken down to smaller, usable, size fractions using a magnet crane and breaker ball.

Fugitive emissions to air from are further controlled by the use of enclosures, dust suppression equipment for crushing and screening plant, covered conveyors and the use of water mist sprays at strategic points. The Yarborough Metal Recovery – dust abatement unit has a permitted emission point A1 at grid ref: SE 9290 1110.

Oversized ferrous scrap processing

In the BOS area handling air cooled slags, some oversized metallic material cannot be mechanically broken up. It is processed by high temperature oxygen lancing technique with a semi mobile Pyro-serv fume booth equipped with bag filter abatement. This has a permitted emission point A2 at grid ref: SE 9320 0850.

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 BL5288 - MultiServ Application BL5296 - Short Bros	Received 30/08/01 Received 30/08/01	
Response to Schedule 4(2) information notices - Short Bros	10/03/03	Response to Section 2.1 - Short Bros.
Response to request for information - MultiServ	Response dated 31/01/03	Request dated 22/04/02
Response to request for information - MultiServ	Response dated 20/03/03	Request dated 13/03/03
Operator submissions of additional information - MultiServ	Submission dated 26/11/01 Submission dated 19/05/03 Submission dated 28/07/03	BOS refractory reclamation New metal recovery plant / application update Further metal recovery plant information.
Permit BL5296 - Short Bros	Determined 31/03/03	
Permit BL5288 - MultiServ	Determined 31/03/04	
Variation HP3035LC including transfer and consolidation of Permit BL5296.	Determined 03/05/07	
Variation EPR/BL5288IC/V003	Determined 09/05/12	Environment Agency variation PM ₁₀ review
Regulation 60 Notice dated 13/10/13	Received 31/01/14	Technical standards detailed in 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
Application EPR/BL5288IC/V004 to include a new listed activity for slag & ash handling & treatments part of the BATC sector permit review	Received 08/10/15	Application relates to existing waste treatment activities above IED threshold for scheduled activity (a newly prescribed activity). Determined as part of the metal sector review incorporating 2012 BAT Conclusions
Variation EPR/BL5288IC/V004 (PAS Billing Ref CP3134VW)	08/03/16	Metal Sector review. Varied and consolidated permit issued in modern condition format.

Other Part A installation permits relating to this installation		
Operator	Permit number	Date of issue
Longs Steel UK Limited	EPR/HP3736AW	30/07/15
Tube City IMS UK Limited (formerly Hanson Support Services Limited)	EPR/TP3731UE	02/05/08
Note: Other Operator permits exist across the steelworks site		

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/BL5288IC

Issued to

Harsco Metals Group Limited (“the operator”)

whose registered office is

**Harsco House
Regent Park
299 Kingston Road
Leatherhead
Surrey
KT22 7SG**

company registration number 00702790

to operate part of a regulated facility at

Scunthorpe Integrated Iron and Steel Works

**Brigg Road
Scunthorpe
North Lincolnshire**

to the extent set out in the schedules.

The notice shall take effect from 08/03/2016

Name	Date
J Linton	08/03/2016

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/BL5288IC

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/BL5288IC/V004 authorising,

Harsco Metals Group Limited (“the operator”),

whose registered office is

**Harsco House
Regent Park
299 Kingston Road
Leatherhead
Surrey
KT22 7SG**

company registration number 00702790

to operate part of an installation at

**Scunthorpe Integrated Iron and Steel Works
Brigg Road
Scunthorpe
North Lincolnshire**

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

Name	Date
J Linton	08/03/2016

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.
- 1.1.4 The operator shall comply with the requirements of an approved competence scheme or other approval issued by the Environment Agency.

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.

1.5 Multiple operator installations

- 1.5.1 For the following activities referenced in schedule 1, table S1.1. Where the operator notifies the Environment Agency under condition 4.3.1 (a) or 4.3.1 (c), the operator shall also notify without delay the other operator(s) of the installation of the same information.
- 1.5.2 Notwithstanding the requirements of this Permit, issued to Harsco Metals Group Ltd, the Operator (Longs Steel UK Limited) shall take initial responsibility for investigating all complaints made against the relevant facilities in accordance with condition 1.1.1 in their permit EPR/HP3736AW whether directly or indirectly, for the purpose of establishing the cause of the complaint and establishing any actions necessary to prevent a recurrence.

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 in blue on the site plan at schedule 7 to this permit, which is within the area edged in red on the site plan that represents the extent of the installation covered by this permit and that/those of (the) other operator(s) of the installation.

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 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.
- 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.

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 table 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 1 month of the end of each quarter, 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 quarter, if during that quarter the total amount accepted exceeds 100 tonnes of non-hazardous waste or 10 tonnes of hazardous waste.

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.

- 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 "without delay", 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	S5.4 A(1) b) (iii)	Recovery or a mix of recovery and disposal of non-hazardous waste with a capacity exceeding 75 tonnes per day involving treatment of slags and ashes Treatment for the purpose of recovery (R5) of non-hazardous waste aggregate	Transport, handling and tipping of molten slag in the designated working area and all subsequent processing. The recovery of metal from slag and all other sources within the designated working area. Waste types and quantities as specified in Table S2.2
A2	3.5 B (a)	BOS refractory reclamation	Note (1)
A3	3.5 B (b)(i) and (ii),	Coke screening and crushing	Note (1)
Directly Associated Activity			
A4	Directly associated activity	Iron and Steel by-product briquetting	Note (1)
A5	Directly associated activity	Slab slitting	Note (1)
A6	Directly associated activity	Scrap processing	Note (1)

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

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	The response to questions 2.1 to 2.12 of the original MultiServ and Short Bros. Applications.	30/08/01
Additional information submission	All information submitted in relation to operating techniques	26/11/01 19/05/03 28/07/03
Response to Schedule 4(2) information notices	Response from Short Bros. Response to Section 2.1 and 2.2.1 MultiServ	10/03/03 20/03/03
Application for Permit Variation	All information submitted in relation to operating techniques of the lancing booth.	11/01/06

Table S1.2 Operating techniques		
Description	Parts	Date Received
Response to Regulation 60 Notice dated 13/09/13	Technical standards detailed in response to BAT Conclusions 1-18, 52, 68, 69, 79 and 82 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	31/01/14

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	The Operator shall submit a report for approval demonstrating how the current measures achieve BAT Conclusion 52 and meet the equivalent of the BAT AEL of 10mg/m ³ of dust. The report shall use at least two years of onsite ambient air quality monitoring data to show the impacts of fugitive dust emissions are no greater than if an extraction system was in place that meets the BAT AEL.	30 months from 8 th March 2016

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Gas oil	Less than 0.1% w/w sulphur content

Table S2.2 Permitted waste types and quantities for processing at the site	
Maximum quantity	None specified
Waste code	Description
10 02 01	Wastes from the processing of slags
10 02 02	Unprocessed slag
10 02 07*	solid wastes from gas treatment containing hazardous substances
10 02 08	solid wastes from gas treatment other than those mentioned in 10 02 07
10 02 10	mill scales

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 (Note 1)
A1 SE 9290 1110	Yarborough metal recovery dust abatement unit	Particulate	20 mg/m ³	Periodic over minimum 30 minute, maximum 8 hour period	Annual	BS EN 13284-1 and MID
A2 SE 9320 0850	Semi-static fume booth extraction unit.	Particulate	20 mg/m ³	Periodic over minimum 30 minute, maximum 8 hour period	Annual	BS EN 13284-1 and MID

Note 1. Or other technique as agreed with the Environment Agency.

Schedule 4 – Reporting

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

Table S4.1 Reporting of monitoring data			
Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to air Parameters as required by condition 3.5.1.	A1, A2	Every 12 months	1 January

Table S4.2: Annual production/treatment	
Parameter	Units
-	-

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
-	-	-

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by the Environment Agency	29/01/16

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 malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution	
To be notified within 24 hours of detection	
Date and time of the event	
Reference or description of the location of the event	
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, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
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.

“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.

““Hazardous property” has the meaning in Annex III of the Waste Framework Directive.

“Hazardous waste” has the meaning given in the Hazardous Waste (England and Wales) Regulations 2005 (as amended).

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

“List of Wastes” means the list of wastes established by Commission Decision 2000/532/EC replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste, as amended from time to time

“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 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

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%.

“year” means calendar year ending 31 December.

When the following terms appear in the waste code list in Schedule 2, table 2.2, for that table they have the meaning given below:

‘hazardous substance’ means a substance classified as hazardous as a consequence of fulfilling the criteria laid down in parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008

‘heavy metal’ means any compound of antimony, arsenic, cadmium, chromium (VI), copper, lead, mercury, nickel, selenium, tellurium, thallium and tin, as well as these materials in metallic form, as far as these are classified as hazardous substances

‘PCBs’ means

- polychlorinated biphenyls
- polychlorinated terphenyls
- monomethyl-tetrachlorodiphenyl methane, Monomethyl-dichloro-diphenyl methane, Monomethyldibromo-diphenyl methane
- any mixture containing any of the above mentioned substances in a total of more than 0,005 % by weight

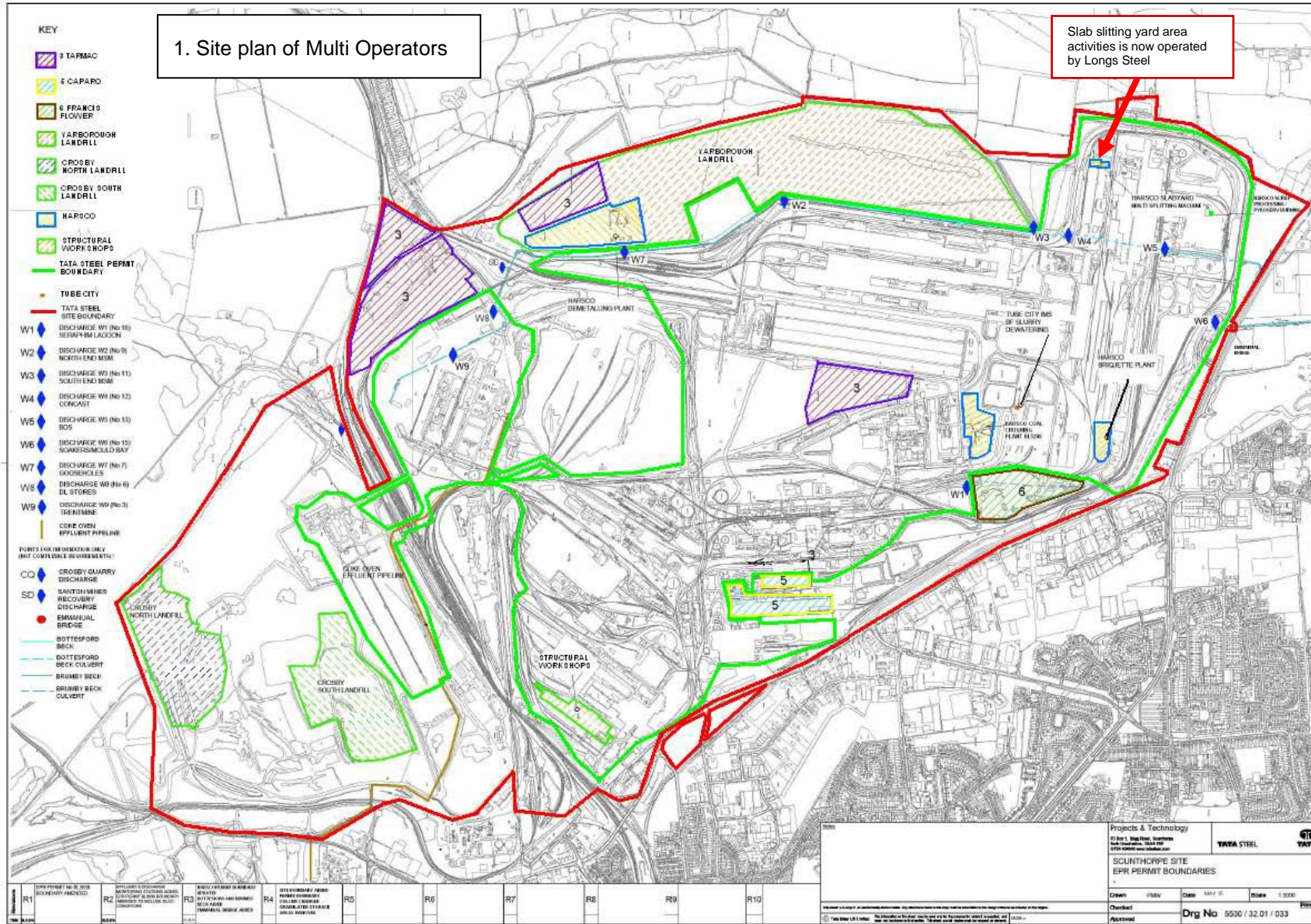
‘transition metals’ means any of the following metals: any compound of scandium, vanadium, manganese, cobalt, copper, yttrium, niobium, hafnium, tungsten, titanium, chromium, iron, nickel, zinc, zirconium, molybdenum and tantalum, as well as these materials in metallic form, as far as these are classified as hazardous substances

‘stabilisation’ means processes which change the hazardousness of the constituents in the waste and transform hazardous waste into non-hazardous waste

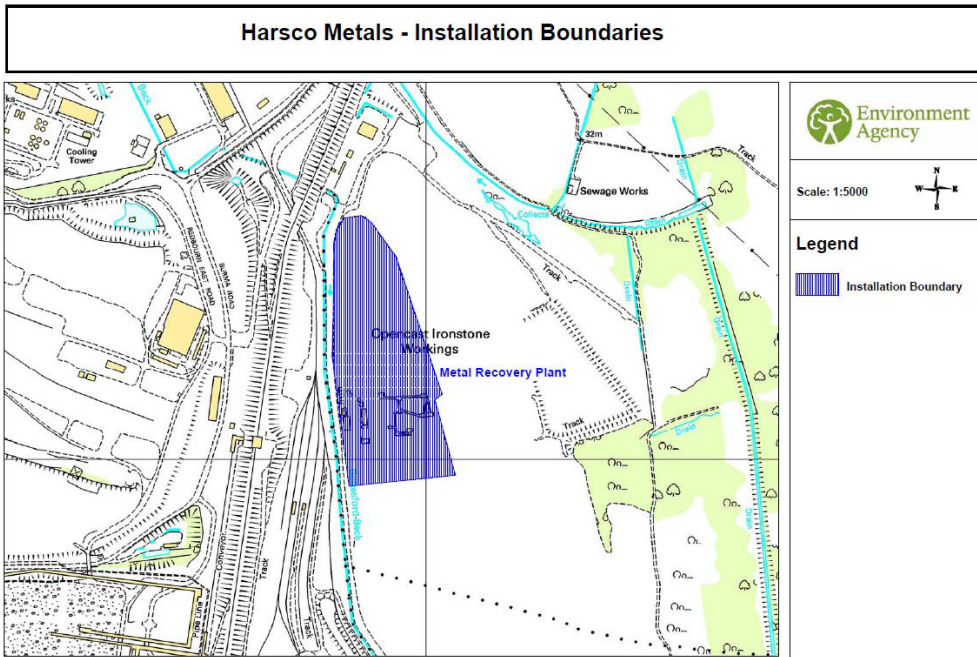
‘solidification’ means processes which only change the physical state of the waste by using additives without changing the chemical properties of the waste

‘partly stabilised wastes’ means wastes containing, after the stabilisation process, hazardous constituents which have not been changed completely into non-hazardous constituents and could be released into the environment in the short, middle or long term

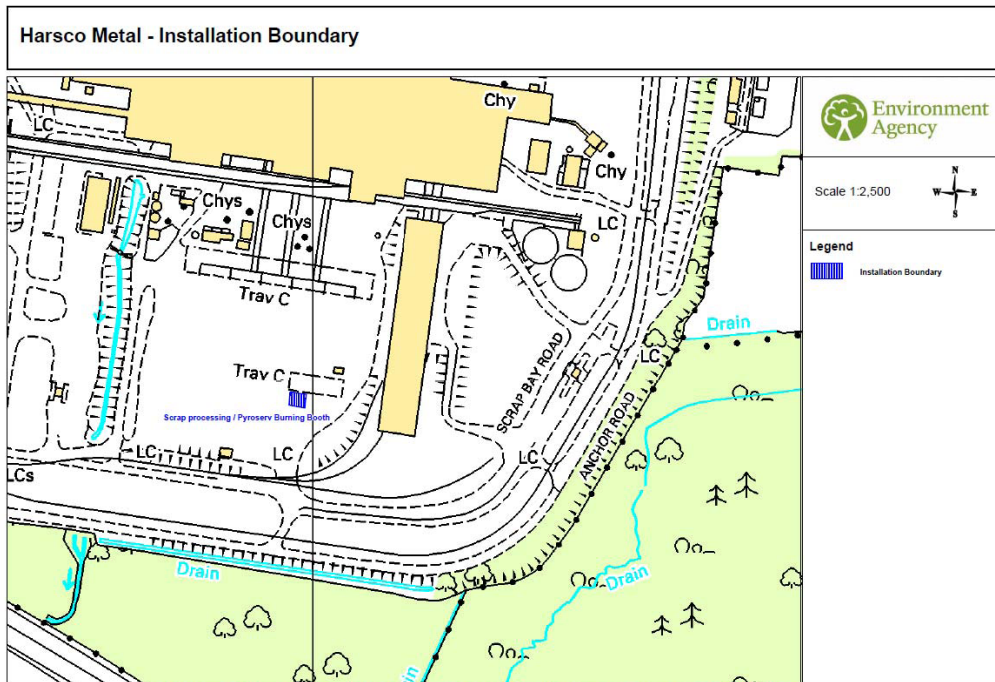
Schedule 7



2. Detailed plans of the Harsco Metals operations

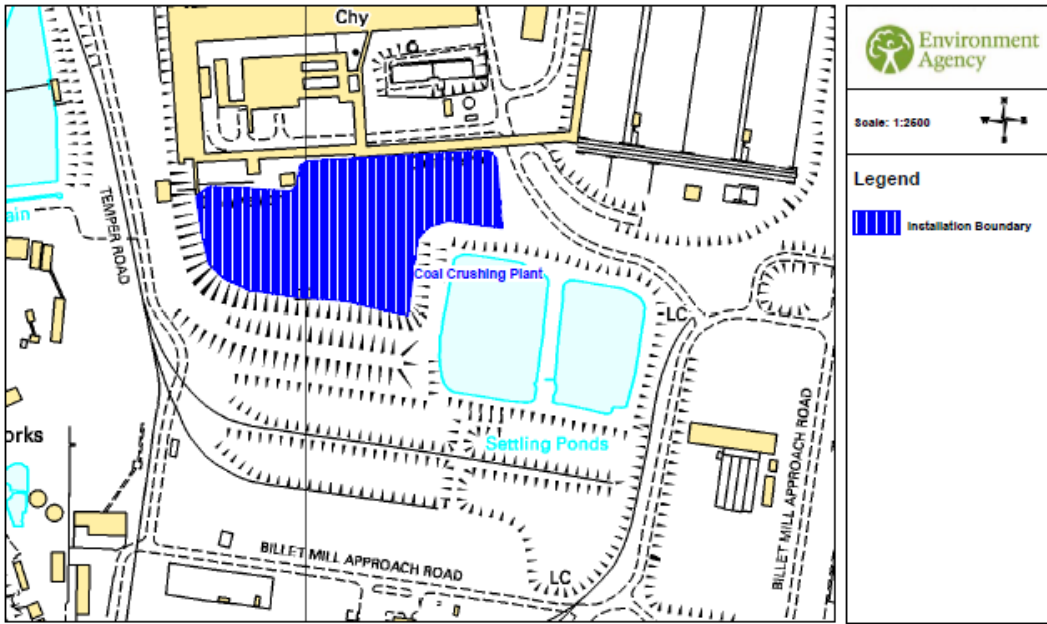


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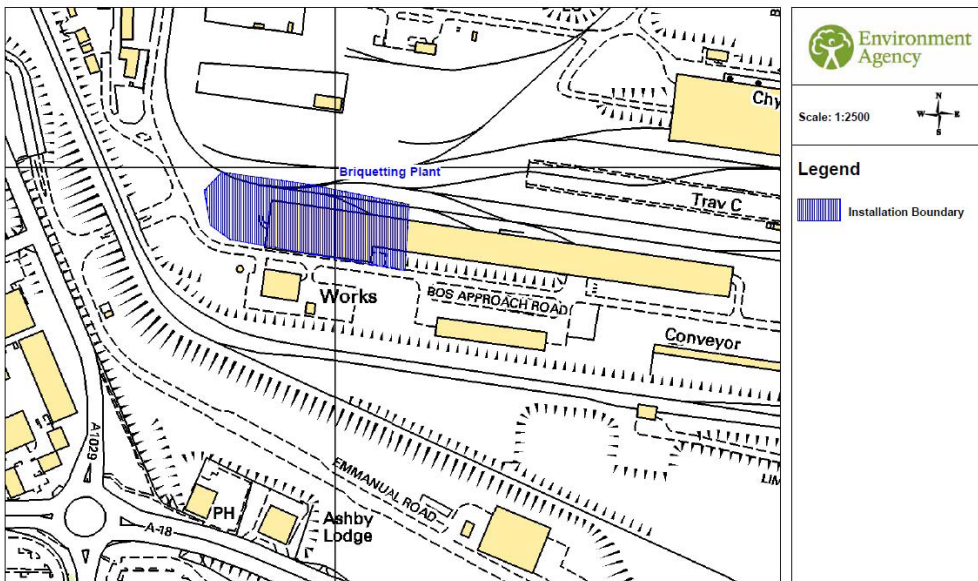
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Contact Us: National Customer Contact Centre, PO Box 544, Rotherham, S60 1BY. Tel: 08708 506 506 (Mon-Fri 8-6). Email: enquiries@environment-agency.gov.uk

Harsco Metals - Installation Boundaries



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