



## Permit with introductory note

Pollution Prevention and Control (England & Wales) Regulations 2000

*Tremorfa New Melt Shop  
CELSA Manufacturing (UK) Ltd  
Tremorfa Works  
Seawall Road  
Cardiff  
S. Glamorgan  
CF24 5TH*

Permit number

*TP 3639BH*

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## Introductory note

### ***This introductory note does not form a part of the Permit***

The following Permit is issued under Regulation 10 of the Pollution Prevention and Control (England and Wales) Regulations 2000 (S.I.2000 No.1973), as amended, ("the PPC Regulations") to operate an installation carrying out activities covered by the description in Section 2.1 A(1)(b) in Part 1 to Schedule 1 of the PPC Regulations, to the extent authorised by the Permit:

Section 2.1 A(1)(b) " Producing, melting or refining iron or steel or any ferrous alloy, including continuous casting.."

Aspects of the operation of the installation which are not regulated by conditions of the Permit are subject to the condition implied by Regulation 12(10) of the PPC Regulations, i.e. the Operator shall use the best available techniques for preventing or, where that is not practicable, reducing emissions from the installation.

Techniques include both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned.

In some sections of the Permit conditions require the Operator to use Best Available Techniques (BAT), in each of the aspects of the management of the installation, to prevent and where that is not practicable to reduce emissions. The conditions do not explain what is BAT. In determining BAT, the Operator should pay particular attention to relevant sections of the IPPC Sector guidance, appropriate Horizontal guidance and other relevant guidance.

A non-technical description of the installation is given in the Application, but the main features are as follows.

CELSA Tremorfa New Melt Shop produces steel billet from scrap using an electric arc furnace and continuous casting. The plant will be newly built in 2005 with a design capacity of approximately 1.3 million tonnes of finished billet per year (27,000 tonne per week).

The steel plant will operate 24 hours per day, seven days per week, 48 weeks per year with planned maintenance occupying the remainder of the time.

The installation and operation comprises:

- covered areas for the receipt, storage and handling of scrap steel. Other raw materials are received into a dedicated material additions bay and thence to separate holding silos ;
- a 140 tonne electric arc furnace (EAF) which is used to melt ferrous scrap that is added via overhead cranes to the furnace. Lime is added to aid 'slagging operation'. Oxygen is injected via lances in order to oxidise contaminants in the metal and together with the addition of coke provides chemical energy to supplement the electric energy used in the melting;
- The lime-based, foaming slag rises to the top and is poured off, cooled and then transported off-site for processing in a separate facility (not regulated by this permit);
- The remaining steel is 'tapped off' into a dedicated ladle furnace and transferred to a ladle where further processing is carried out (additions of alloying and slagging agents) in order to purify the steel ready to pass to:
- a six strand continuous caster producing billets;
- storage area for billets;

- A fume extraction and filtration system for primary fume extraction from the main furnace, ladle furnace and secondary extraction from the building roof. Fume from the EAF (via a 4<sup>th</sup> hole in the furnace) is ducted away and cooled rapidly with a water spray. It is then mixed with extracted air from the ladle furnace and finally combined with air from the secondary roof extract (design to hold fugitive releases). This air is then passed through a bag filter to remove entrained particulates, before being discharged to atmosphere. The operation of the abatement equipment is interlocked with the operation of the arc furnace.
- a water clarification plant for cleaning and recirculation of the water to the various cooling circuits of the process. Any make-up of the water is normally to compensate for evaporative losses.;
- waste handling and transportation systems including road and rail unloading/loading facilities access to the site for the importation of raw materials and the exportation of billets and associated by-products.

The main releases are as follows:

- fume from the melt furnace and associated ladle furnace cleaned by fabric bag filtration in the abatement plant is released from a single 45m stack (A1);
- fume from raw material handling processes, discharged via a separate bag filter to a single 41m stack (A2);
- fugitive water vapour from the spray chambers used in the cooling of billets;
- emergency vents for oxygen, argon and nitrogen tanks; and
- occasional overflow from the water clarification system, released to sewer (release point S1, consented by sewerage undertaker) which then passes through open gullies where it is combined with surface water run-off, being discharged at point S3, to SE of installation.

The principal risks of fugitive releases are:

- dust and fume from furnaces bypassing fume collection points over the furnaces and in the roof canopy, then escaping from the building; and
- dust released during collection and handling of slag.

Note that the Permit requires the submission of certain information to the Agency (see Sections 4 and 5). In addition, the Agency has the power to seek further information at any time under regulation 28 to the PPC Regulations provided that it acts reasonably.

**Other PPC Permits relating to this installation**

Permit holder	Permit Number	Date of Issue
Not applicable		

**Superseded Licences/Authorisations/Consents relating to this installation**

Holder	Reference Number	Date of Issue
Not applicable		

Other activities may take place on the site of this installation which are not regulated under this Permit or any other PPC Permit referred to in the Table above.

**Other existing Licences/Authorisations/Registrations relating to this site**

Holder	Reference Number	Date of issue
Not applicable		

## Public Registers

Considerable information relating to Permits including the Application is available on public registers in accordance with the requirements of the PPC Regulations. Certain information may be withheld from public registers where it is commercially confidential or contrary to national security.

## Variations to the Permit

This Permit may be varied in the future (by the Agency serving a Variation Notice on the Operator). If the Operator itself wants any of the Conditions of the Permit to be changed, it must submit a formal Application. The Status Log within the Introductory Note to any such Variation Notice will include summary details of this Permit, variations issued up to that point in time and state whether a consolidated version of the Permit has been issued.

## Surrender of the Permit

Before this Permit can be wholly or partially surrendered, an Application to surrender the Permit has to be made by the Operator. For the application to be successful, the Operator must be able to demonstrate to the Agency that there is no pollution risk and that no further steps are required to return the site to a satisfactory state.

## Transfer of the Permit or part of the Permit

Before the Permit can be wholly or partially transferred to another person, an Application to transfer the Permit has to be made jointly by the existing and proposed holders. A transfer will be allowed unless the Agency considers that the proposed holder will not be the person who will have control over the operation of the installation or will not comply with the conditions of the transferred Permit. If, however, the Permit authorises the carrying out of a specified waste management activity, the transfer will only be allowed if the proposed holder is also considered to be "a fit and proper person" as required by the PPC Regulations.

## Talking to us

Please quote the Permit Number if you contact the Agency about this Permit.

To give a Notification under Condition 5.1.1, the Operator should use the Incident Hotline telephone number (0800 80 70 60) or any other number notified in writing to the Operator by the Agency for that purpose.

## Status Log

Detail	Date	Response Date
Application TP3639BH	Received 15/10/04	
Response to request for information	Request dated 22/12/04	Response dated 03/02/05
Request to extend determination	Request dated 18/03/05	Request accepted 22/03/05
Request to extend determination	Request dated 29/04/05	Request accepted 03/05/05
Permit determined	11/05/05	

**End of Introductory Note.**

**Permit**

Pollution Prevention and Control  
Regulations 2000



**ENVIRONMENT  
AGENCY**

## Permit

Permit number  
**TP3639BH**

The Environment Agency (the Agency) in exercise of its powers under Regulation 10 of the Pollution Prevention and Control (England and Wales) Regulations (SI 2000 No 1973), hereby authorises **CELSA Manufacturing (UK) Ltd** ("the Operator"),

Of/ whose Registered Office (or principal place of business) is  
**Building 58**  
**Castle Works**  
**East Moors Rd**  
**Cardiff**  
**CF24 5NN**

Company registration number **4577881**

to operate an Installation at

**Tremorfa Works**

**Seawall Rd**

**Tremorfa**


**Cardiff**

**CF24 5TH**

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

Signed

Date

	<b>11 May 2005</b>
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Mr. A Gibbs

Authorised to sign on behalf of the Agency

# Conditions

## 1 General

### 1.1 Permitted Activities

1.1.1 The Operator is authorised to carry out the activities and the associated activities specified in Table 1.1.1.

**Table 1.1.1**

Activity listed in Schedule 1 of the PPC Regulations / Associated Activity	Description of specified activity	Limits of specified activity
Producing steel using electric arc furnaces with a designed holding capacity of 7 tonnes or more [Schedule 1 Activity – Chapter 2, Section 2.1, Part A(1)(b)]	The operation of an electric arc furnace, including ladle furnace; continuous caster; fume extraction plant; baghouse dust storage; oxygen, argon and nitrogen storage	Note 1
Water treatment systems [part of the stationary technical unit]	Closed circuit water cooling systems and open circuit water treatment plant (removing scale).	Note 1
Scrap handling and storage [directly associated activity]	Scrap unloading, sorting, and storage. Loading into baskets and transfer to the furnaces.	Note 1
Other raw material handling [directly associated activity]	Unloading, storage and transfer to the furnaces.	Note 1
Billet storage [directly associated activity]	Storage in billet warehouse.	Note 1
Scale handling [directly associated activity]	Dewatering of scale removed in water treatment	Note 1
Slag handling [directly associated activity]	Slag collection and transfer from installation.	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 and the supply of finished products

### 1.2 Site

1.2.1 The activities authorised under condition 1.1.1 shall not extend beyond the Site, being the land shown edged in red on the Site Plan at Schedule 5 to this Permit.

### **1.3 Overarching Management Condition**

- 1.3.1 Without prejudice to the other conditions of this Permit, the Operator shall implement and maintain a management system, organisational structure and allocate resources that are sufficient to achieve compliance with the limits and conditions of this Permit.

### **1.4 Improvement Programme**

- 1.4.1 The Operator shall complete the improvements specified in Table 1.4.1 by the date specified in that table, and shall send written notification of the date of completion of each requirement to the Agency within 14 days of the completion of each such requirement.

**Table 1.4.1: Improvement programme**

Reference	Requirement	Date
1	The Operator shall submit to the Agency a commissioning report for the new installation. This report shall provide comparisons of actual versus design specifications for the following parameters as a minimum: emissions to air, oxygen input and electrical energy used, expressed per tonne of liquid steel produced.	31 <sup>st</sup> July 2006
2	Following the successful commissioning of the new installation, a new noise survey shall be made in accordance with the relevant parts of BS 4142:1997 'Method for rating industrial noise affecting mixed residential and industrial areas'. The scope of the survey shall be agreed with the Agency before being started and a report of the study shall be submitted to the Agency on completion.	31 <sup>st</sup> July 2006
3	The Operator shall propose an emission-monitoring programme for releases from A1 & A2 to enable an environmental impact assessment of actual emissions from the installation to be ascertained. The proposals shall make due reference to Agency guidance notes M1 & M2 and be submitted for prior approval by the Agency. In the first instance this assessment shall consist of a review of the validity of the air modelling outputs presented in the IPPC Application. The output from this monitoring and assessment shall be reported to the Agency.	31 <sup>st</sup> July 2006
4	Following the completion of IC 3, should the review indicate that further modelling is required, a proposal for the scope of additional modelling shall be agreed by the Agency. The outcome of any further modelling shall be reported to the Agency. Should the modelling predict an exceedance of the level of significance given in Agency's Guidance Note H1, the report shall also present options and timescales for reducing the levels to below the significance levels.	31 <sup>st</sup> October 2006
5	The Operator shall provide more details in a report to the Agency of the chosen process for the treatment of Zn-containing EAF dusts. This report shall include the likely environmental impact of the process and shall be submitted 3 months before any intended introduction of the process. Should the decision to introduce such a process be delayed, an interim report shall be made advising of likely timescale and scope of the process.	1 <sup>st</sup> April 2007

1.4.2 Where the Operator fails to comply with any requirement by the date specified in Table 1.4.1 the Operator shall send written notification of such failure to the Agency within 14 days of such date.



## 1.5 Minor Operational Changes

- 1.5.1 The Operator shall seek the Agency's written agreement to any minor operational changes under condition 2.1.1 of this Permit by sending to the Agency: written notice of the details of the proposed change including an assessment of its possible effects (including waste production) on risks to the environment from the Permitted Installation; any relevant supporting assessments and drawings; and the proposed implementation date.
- 1.5.2 Any such change shall not be implemented until agreed in writing by the Agency. As from the agreed implementation date, the Operator shall operate the Permitted Installation in accordance with that change, and relevant provisions in the Application shall be deemed to be amended.
- 1.5.3 When the qualification "unless otherwise agreed in writing" is used elsewhere in this Permit, the Operator shall seek such agreement by sending to the Agency written notice of the details of the proposed method(s) or techniques.
- 1.5.4 Any such method(s) or techniques shall not be implemented until agreed in writing by the Agency. As from the agreed implementation date, the Operator shall operate the Permitted Installation using that method or technique, and relevant provisions in the Application and the Site Protection and Monitoring Programme, as the case may be shall be deemed to be amended.

## 1.6 Pre-Operational Conditions

- 1.6.1 The Operator shall ensure that all plant, building and other construction work is complete before any operational activity takes place. The Agency shall be informed, in writing, a minimum of 2 weeks in advance of the intention to commence permitted activities at the installation.
- 1.6.2 The Operator shall present a survey of PCDD/F and Zinc levels in soil surrounding the site at sensitive locations. The scope of the survey shall be submitted for prior approval by the Agency. A report shall be submitted to the Agency detailing the results of this survey, together with proposals for future monitoring.

## 1.7 Off-site Conditions

- 1.7.1 There are no off-site conditions

## 2 Operating conditions

### 2.1 In-Process Controls

- 2.1.1 The Permitted Installation shall, subject to the conditions of this Permit, be operated using the techniques and in the manner described in the documentation specified in Table 2.1.1, or as otherwise agreed in writing by the Agency in accordance with conditions 1.5.1 and 1.5.2 of this Permit.

**Table 2.1.1: Operating techniques**

Description	Parts	Date Received
Application	The response to questions 2.1 and 2.2 given in pages 27-49 of sections 2.3 and 2.4 of the application.	15/10/04
Schedule 4 Notice	Responses to questions S1.3 Q28 S2.1 Q3 S2.2 Q1 S2.3 Q3, Q13	03/02/05

- 2.1.2 The Permitted Installation shall, subject to the other conditions of this Permit, be operated using the techniques and in the manner described in the Site Protection and Monitoring Programme submitted under condition 4.1.7 of this Permit (as amended from time to time under condition 4.1.8), or as otherwise agreed in writing by the Agency.

### 2.2 Emissions

#### 2.2.1 Emissions to Air, (including heat, but excluding Odour, Noise or Vibration) from Specified Points

- 2.2.1.1 This Part 2.2.1 of this Permit shall not apply to releases of odour, noise or vibration.
- 2.2.1.2 Emissions to air from the emission points in Table 2.2.1 shall only arise from the source(s) specified in that Table.

**Table 2.2.1 : Emission points to air**

Emission point reference or description	Source	Location of emission point
A1	Furnace fume extraction plant stack	Point A1 on Figure 9 of application
A2	Materials handling extraction plant stack	Point A2 on Figure 9 of application
A3	Water Cooling Towers	7 square boxes shown on drawing No 10293-X011 (water treatment plant is at top left hand side), clarified by email of 22/04/05

- 2.2.1.3 The limits for emissions to air for the parameter(s) and emission point(s) set out in Table 2.2.2 shall not be exceeded.

**Table 2.2.2 : Emission limits to air and monitoring**

Emission point reference	Parameter	Limit (including Reference Period) <sup>1</sup>	Monitoring frequency	Monitoring Method <sup>(7)</sup>
A1 <sup>(8)</sup>	Particulates <sup>(5)(8)</sup>	10 mg/m <sup>3</sup> hourly average	Continuous	BS ISO 10155
A1, A2	Particulates <sup>(2)</sup>	10 mg/m <sup>3</sup>	Annual	BS EN 13284-1:2002
A1 <sup>(8)</sup>	Carbon Monoxide <sup>(5)(8)</sup>	100 mg/m <sup>3</sup> hourly average	Continuous	ISO 12039
A1	Oxides of Nitrogen (as NOx) <sup>(2)</sup>	25 mg/m <sup>3</sup>	Annual	ISO 10849
A1	Sulphur Dioxide <sup>(2)</sup> as a 15 min average	25 mg/m <sup>3</sup>	Annual	BS 6069: Section 4.4: 1993 (ISO 7935:1992)
A1	PCDD/F <sup>(2)</sup>	0.3 ng/m <sup>3</sup>	Annual	BS EN1948
A1	VOC <sup>(2)</sup>	20 mg/m <sup>3</sup>	Annual	BS EN12619
A1	Metals <sup>(8)</sup>	- mg/m <sup>3</sup>	Annual	USEPA Method 29 or BS EN 14385
A1	PAH <sup>(2)</sup>	-	Annual	BS EN 1948
A1	PCB <sup>(2)</sup>	-	Annual	BS EN1948
Installation	Lead <sup>(2)</sup>	-	Quarterly	USEPA Method 29

**Notes:**

1. See Section 6 for reference conditions.
2. Refers to any representative manual spot sample.
3. SO<sub>2</sub> shall be sampled in accordance with BS6069 Part 4.4 (or equivalent) and expressed as a maximum 15-minute average during the representative sampling period.
4. Refers to any representative manual hourly average measurement
5. For continuous monitoring the release limit is complied with if 95% of the hourly average readings for each rolling 24 hours do not exceed the emission value given in Table 2.2.2 and the peak hourly average does not exceed 1.5 times the limit value. The averaging period shall only include those hours during which the plant is in operation including start-up and shut-down.
6. Metals means elements and compounds expressed as the metal of: Ni, As, Cd, Cr, Cu, Pb, Hg, Fe, Zn.
7. Alternative monitoring requirements may be agreed in writing by the Agency.
8. MCERT accredited CEMs shall be installed unless by written agreement of the Agency.

2.2.1.4 No condition applies.

## 2.2.2 Emissions to water (other than groundwater), including heat, from specified points

- 2.2.2.1 This Part 2.2.2 of this Permit shall not apply to releases of odour, noise or vibration or to releases to groundwater.
- 2.2.2.2 Conditions 2.2.2.3 - 2.2.2.6 shall not apply to emissions to sewer.
- 2.2.2.3 No emission from the Permitted Installation shall be made to water.
- 2.2.2.4 No condition applies.
- 2.2.2.5 No condition applies.
- 2.2.2.6 No condition applies.

## Emissions to sewer

2.2.2.7 Emissions to sewer from the specified emission points in Table 2.2.7 shall only arise from the source(s) specified in that Table.

**Table 2.2.7 Emission points to sewer**

Emission point reference or description	Source	Sewer
S1 (marked as S1 on Figure 9 of application).	Occasional overflow from cooling tower cold well and the clarifier, released to sewer at S3 –see table below. Note release point S1 represents the consented stream by sewerage undertaker.	
S2 (marked as S2 on Figure 9 of application).	Site roof water runoff from dust extraction plant to SW corner of installation, combined with foul water from site amenities as shown on Drawing 10293-X011	Dwr Cymru Welsh Water plc
S3 (marked as S3 on Figure 9 of application).	Site surface water runoff from hardstanding to all but SW corner of installation, combined with any flow from occasional cooling water discharge from S1 in this table as shown on Drawing 10293-X011	Dwr Cymru Welsh Water plc

2.2.2.8 The limits for the emissions to sewer for the parameter(s) and emission point(s) set out in Table 2.2.8 shall not be exceeded.

**Table 2.2.8 : Emission limits and monitoring frequency to sewer**

Substance	Limit Note <sup>(2)</sup>	S1 Limit Note <sup>(3)</sup>	Limit S3 Note <sup>(3)</sup>	Monitoring method <sup>(1)</sup> <sup>(5)</sup>
Free or emulsified grease or oil	5 mg/l	5 mg/l		Material soluble in 1,1,2-trichloro-trifluoroethane
Suspended Solids	30 mg/l	200 mg/l		The solids shall be separated and dried at 105 C
pH	6-10	6-10		BS 6068-2.50:1995, ISO 10523:1994
Lead	0.2 mg/l	0.2 mg/l		BS 6068-2.60:1988, BS EN ISO 11885 1998.
Nickel	0.5 mg/l	0.5 mg/l		BS 6068-2.60:1988, BS EN ISO 11885 1998.
Arsenic	0.01 mg/l	0.01 mg/l		BS 6068-2.60:1988, BS EN ISO 11885 1998.
Cadmium	0.05 mg/l	0.05 mg/l		BS 6068-2.60:1988, BS EN ISO 11885 1998.
Chromium	0.2 mg/l	0.2 mg/l		BS 6068-2.60:1988, BS EN ISO 11885 1998.
Copper	0.5 mg/l	0.5 mg/l		BS 6068-2.60:1988, BS EN ISO 11885 1998.
Zinc	0.5 mg/l	0.5 mg/l		BS 6068-2.60:1988, BS EN ISO 11885 1998.
Mercury	0.02 mg/l	0.02 mg/l		BS 6068-2.74:2002, BS EN ISO 13506:2002.
Iron Compounds	5 mg/l	5mg/l		BS 6068-2.60:1988, BS EN ISO 11885 1998.
Flow <sup>(4)</sup>	-	-		

### Notes

1. Appropriate representative spot sample (when flowing).
2. To be sampled during drain down of cooling system.
3. To be sampled annually
4. An operational record shall be made of the daily flows from point S1.
5. Alternative monitoring requirements may be agreed in writing with the Agency.

2.2.2.9 Where a substance is specified in Table 2.2.8 but no limit is set for it, the concentration of such substance in emissions to sewer from the relevant emission point shall be no greater than the background concentration.

2.2.2.10 No condition applies.

## **2.2.3 Emissions to groundwater**

2.2.3.1 No emission from the Permitted Installation shall give rise to the introduction into groundwater of any substance in List I (as defined in the Groundwater Regulations 1998 (S.I. 1998 No. 2746)).

2.2.3.2 No emission from within the Permitted Installation shall give rise to the introduction into groundwater of any substance in List II (as defined in the Groundwater Regulations 1998 (S.I. 1998 No. 2746)) so as to cause pollution (as defined in the Groundwater Regulations 1998 (S.I. 1998 No. 2746)).

2.2.3.3 For substances other than those in List I or II (as defined in the Groundwater Regulations 1998 (S.I. 1998 No. 2746)), the Operator shall use BAT to prevent or where that is not practicable to reduce emissions to groundwater from the Permitted Installation provided always that the techniques used by the Operator shall be no less effective than those described in the Application, .

## **2.2.4 Fugitive emissions of substances to air**

2.2.4.1 The Operator shall use BAT so as to prevent or where that is not practicable to reduce fugitive emissions of substances to air from the Permitted Installation in particular from:

- storage areas
- buildings
- pipes, valves and other transfer systems
- open surfaces

provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

## **2.2.5 Fugitive emissions of substances to water and sewer**

2.2.5.1 Subject to condition 2.2.5.2 below, the Operator shall use BAT so as to prevent or where that is not practicable to reduce fugitive emissions of substances to water (other than Groundwater) and sewer from the Permitted Installation in particular from:

- all structures under or over ground
- surfacing
- bunding
- storage areas

provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

2.2.5.2 There shall be no release to water that would cause a breach of an EQS established by the UK Government to implement the Dangerous Substances Directive 76/464/EEC.

## 2.2.6 Odour

2.2.6.1 the Operator shall use BAT so as to prevent or where that is not practicable to reduce odorous emissions from the Permitted Installation, in particular by:

- limiting the use of odorous materials
- restricting odorous activities
- controlling the storage conditions of odorous materials
- controlling processing parameters to minimise the generation of odour
- optimising the performance of abatement systems
- timely monitoring, inspection and maintenance
- employing, where appropriate, an approved odour management plan

provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

2.2.6.2 No condition applies.

2.2.6.3 No condition applies.

## 2.2.7 Emissions to Land

2.2.7.1 This Part 2.2.7 of this Permit shall not apply to emissions to groundwater.

2.2.7.2 No emission from the Permitted installation shall be made to land.

2.2.7.3 No condition applies.

## 2.3 Management.

2.3.1 A copy of this Permit and those parts of the application referred to in this Permit shall be available, at all times, for reference by all staff carrying out work subject to the requirements of the Permit.

### **Training**

2.3.2 The Permitted Installation shall be supervised by staff who are suitably trained and fully conversant with the requirements of this Permit.

2.3.3 All staff shall be fully conversant with those aspects of the Permit conditions which are relevant to their duties and shall be provided with adequate professional technical development and training and written operating instructions to enable them to carry out their duties.

2.3.4 The Operator shall maintain a record of the skills and training requirements for all staff whose tasks in relation to the Permitted Installation may have an impact on the environment and shall keep records of all relevant training.

### **Maintenance**

2.3.5 All plant and equipment used in operating the Permitted Installation, the failure of which could lead to an adverse impact on the environment, shall be maintained in good operating condition.

2.3.6 The Operator shall maintain a record of relevant plant and equipment covered by condition 2.3.5 and for such plant and equipment:

- 2.3.6.1 a written or electronic maintenance programme; and
- 2.3.6.2 records of its maintenance.

### **Incidents and Complaints**

2.3.7 The Operator shall maintain and implement written procedures for:

- 2.3.7.1 taking prompt remedial action, investigating and reporting actual or potential non-compliance with operating procedures or emission limits and if such event occur;
- 2.3.7.2 investigating incidents, (including any malfunction, breakdown or failure of plant, equipment or techniques, down time, any short term and long term remedial measures and near misses) and prompt implementation of appropriate actions; and
- 2.3.7.3 ensuring that detailed records are made of all such actions and investigations.

2.3.8 The Operator shall record and investigate complaints concerning the Permitted Installation's effects or alleged effects on the environment. The record shall give the date and nature of complaint, time of complaint, name of complainant (if given), a summary of any investigation and the results of such investigation and any actions taken.

## **2.4 Efficient use of raw materials**

2.4.1 The Operator shall -

- 2.4.1.1 maintain the raw materials table or description submitted in response to Section 2.4 of the Application and in particular consider on a periodic basis whether there are suitable alternative materials to reduce environmental impact;
- 2.4.1.2 carry out periodic waste minimisation audits and water use efficiency audits. If such an audit has not been carried out in the 2 years prior to the issue of this Permit, then the first such audit shall take place within 2 years of its issue. The methodology used and an action plan for increasing the efficiency of the use of raw materials or water shall be submitted to the Agency within 2 months of completion of each such audit and a review of the audit and a description of progress made against the action plan shall be submitted to the Agency at least every 4 years thereafter; and
- 2.4.1.3 ensure that incoming water use is directly measured and recorded.

## **2.5 Waste Storage and Handling**

- 2.5.1 The Operator shall design, maintain and operate all facilities for the storage and handling of waste on the Permitted installation such that there are no releases to water or land during normal operation and that emissions to air and the risk of accidental release to water or land are minimised.
- 2.5.2 The Operator shall use BAT so as to prevent or where that is not practicable to reduce emissions of litter from the Permitted Installation provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

## 2.6 Waste recovery or disposal

2.6.1 Waste produced at the Permitted Installation shall be:

- 2.6.1.1 recovered to no lesser extent than described in the Application; and
  - 2.6.1.2 where not recovered, disposed of while avoiding or reducing any impacts on the environment provided always that this is not done in any way that would have a greater effect on the environment than that described in the Application.
- 2.6.2 The Operator shall maintain the waste recovery or disposal table or description submitted in response to Section 2.6 of the Application and in particular review the available options for waste recovery and disposal for the purposes of complying with condition 2.6.1 above.
- 2.6.3 The Operator shall maintain and implement a system which ensures that a record is made of the quantity, composition, origin, destination (including whether this is a recovery or disposal operation) and where relevant removal date of any waste that is produced at the Permitted Installation.

## 2.7 Energy Efficiency

- 2.7.1 The Operator shall produce a report on the energy consumed at the Permitted Installation over the previous calendar year, by 31 January each year, providing the information required by condition 4.1.2.
- 2.7.2 The Operator shall maintain and update annually an energy management system which shall include, in particular, the monitoring of energy flows and targeting of areas for improving energy efficiency.
- 2.7.3 The Operator shall design, maintain and operate the Permitted Installation so as to secure energy efficiency, taking into account relevant guidance including the Agency's Energy Efficiency Horizontal Guidance Note as from time to time amended. Energy efficiency shall be secured in particular by:
- ensuring that the appropriate operating and maintenance systems are in place;
  - ensuring that all plant is adequately insulated to minimise energy loss or gain;
  - ensuring that all appropriate containment methods, (e.g. seals and self-closing doors) are employed and maintained to minimise energy loss;
  - employing appropriate basic controls, such as simple sensors and timers, to avoid unnecessary discharge of heated water or air;
  - where building services constitute more than 5% of the total energy consumption of the installation, identifying and employing the appropriate energy efficiency techniques for building services, having regard in particular to the Building services part of the Agency's Energy Efficiency Horizontal Guidance Note H2; and

maintaining and implementing an energy efficiency plan which identifies energy saving techniques that are applicable to the activities and their associated environmental benefit and prioritises them, having regard to the appraisal method in the Agency's Energy Efficiency Horizontal Guidance Note H2.



## 2.8 Accident prevention and control

- 2.8.1 The Operator shall maintain and implement when necessary the accident management plan submitted or described in response to Section 2.8 of the Application. The plan shall be reviewed at least every 2 years or as soon as practicable after an accident, whichever is the earlier, and the Agency notified of the results of the review within 2 months of its completion.

## 2.9 Noise and Vibration

- 2.9.1 The Operator shall use BAT so as to prevent or where that is not practicable to reduce emissions of noise and vibration from the Permitted Installation, in particular by:

- equipment maintenance, eg. of fans, pumps, motors, conveyors and mobile plant;
- use and maintenance of appropriate attenuation, eg. silencers, barriers, enclosures;
- timing and location of noisy activities and vehicle movements;
- periodic checking of noise emissions, either qualitatively or quantitatively; and
- maintenance of building fabric,

provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

## 2.10 On-site Monitoring

- 2.10.1 The Operator shall maintain and implement an emissions monitoring programme which ensures that emissions are monitored from the specified points, for the parameters listed in and to the frequencies and methods described in Tables 2.2.2 and 2.2.8, unless otherwise agreed in writing, and that the results of such monitoring are assessed. The programme shall ensure that monitoring is carried out under an appropriate range of operating conditions.
- 2.10.2 No condition applies
- 2.10.3 No condition applies.
- 2.10.4 No condition applies.
- 2.10.5 The Operator shall notify the Agency at least 14 days in advance of undertaking monitoring and/or spot sampling, where such notification has been requested in writing by the Agency.
- 2.10.6 The Operator shall maintain records of all monitoring taken or carried out (this includes 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.
- 2.10.7 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme in condition 2.10.1 of this Permit shall have either MCERTS certification or MCERTS accreditation (as appropriate) unless otherwise agreed in writing.
- 2.10.8 There shall be provided:
- 2.10.8.1 safe and permanent means of access to enable sampling/monitoring to be carried out in relation to the emission points specified in Schedule 2 to this Permit, unless otherwise specified in that Schedule; and
- 2.10.8.2 safe means of access to other sampling/monitoring points when required by the Agency.

- 2.10.9 The Operator shall carry out the on-going monitoring identified in the Site Protection and Monitoring Programme submitted under condition 4.1.7, unless otherwise agreed in writing by the Agency.
- 2.10.10 The Operator shall, within 6 months of the issue of this Permit, in accordance with and using the format given in the Land Protection Guidance:
- 2.10.10.1 collect the site reference data identified in the Site Protection and Monitoring Programme submitted under condition 4.1.7, and
  - 2.10.10.2 report that site reference data to the Agency,
    - unless otherwise agreed in writing by the Agency.

## **2.11 Closure and Decommissioning**

- 2.11.1 The Operator shall maintain and operate the Permitted Installation so as to prevent or minimise any pollution risk, including the generation of waste, on closure and decommissioning in particular by:-
- 2.11.1.1 attention to the design of new plant or equipment;
  - 2.11.1.2 the maintenance of a record of any events which have, or might have, impacted on the condition of the site along with any further investigation or remediation work carried out; and
  - 2.11.1.3 the maintenance of a site closure plan to demonstrate that the installation can be decommissioned avoiding any pollution risk and returning the site of operation to a satisfactory state.
- 2.11.2 Notwithstanding condition 2.11.1 of this Permit, the Operator shall carry out a full review of the Site Closure Plan at least every 4 years.
- 2.11.3 The site closure plan shall be implemented on final cessation or decommissioning of the Permitted activities or part thereof.
- 2.11.4 The Operator shall give at least 30 days written notice to the Agency before implementing the site closure plan.

## **2.12 Multiple Operator installations**

- 2.12.1 This is not a multi-Operator installation

## **2.13 Transfer to effluent treatment plant**

- 2.13.1 No transfer from the Permitted Installation shall be made to effluent treatment plant.
- 2.13.2 No condition applies.

# **3 Records**

- 3.1 The Operator shall ensure that all records required to be made by this Permit and any other records made by it in relation to the operation of the Permitted Installation shall:-
- 3.1.1 be made available for inspection by the Agency at any reasonable time;

**Records**

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- 3.1.2 be supplied to the Agency on demand and without charge;
- 3.1.3 be legible;
- 3.1.4 be made as soon as reasonably practicable;
- 3.1.5 indicate any amendments which have been made and shall include the original record wherever possible;
- 3.1.6 be retained at the Permitted Installation, or other location agreed by the Agency in writing, for a minimum period of 4 years from the date when the records were made, unless otherwise agreed in writing; and
- 3.1.7 where they concern the condition of the site of the Installation or are related to the implementation of the Site Protection and Monitoring Programme, be kept at the Permitted Installation, or other location agreed by the Agency in writing, until all parts of the Permit have been surrendered.

## 4 Reporting

- 4.1.1 All reports and written and or oral notifications required by this Permit and notifications required by Regulation 16 of the PPC Regulations shall be made or sent to the Agency using the contact details notified in writing to the Operator by the Agency.
- 4.1.2 The Operator shall, unless otherwise agreed in writing, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:-
- 4.1.2.1 in respect of the parameters and emission points specified in Table S2 to Schedule 2;
  - 4.1.2.2 for the reporting periods specified in Table S2 to Schedule 2 and using the forms specified in Table S3 to Schedule 3;
  - 4.1.2.3 giving the information from such results and assessments as may be required by the forms specified in those Tables; and
  - 4.1.2.4 to the Agency within 28 days of the end of the reporting period.
- 4.1.3 The Operator shall submit to the Agency a report on the performance of the Permitted Installation over the previous year, by 31 January each year, providing the information listed in Tables S4.1 and S4.2 of Schedule 4, assessed at any frequency specified therein, and using the form specified in Table S3 to Schedule 3.
- 4.1.4 The Operator shall review fugitive emissions, having regard to the application of Best Available Techniques, on an annual basis, or such other period as shall be agreed in writing by the Agency, and a summary report on this review shall be sent to the Agency detailing such releases and the measures taken to reduce them within 3 months of the end of such period.
- 4.1.5 Where the Operator has a formal environmental management system applying to the Permitted Installation which encompasses annual improvement targets the Operator shall, not later than 31 January in each year, provide a summary report of the previous year's progress against such targets.
- 4.1.6 The Operator shall, within 6 months of receipt of written notice from the Agency, submit to the Agency a report assessing whether all appropriate preventive measures continue to be taken against pollution, in particular through the application of the best available techniques, at the installation. The report shall consider any relevant published technical guidance current at the time of the notice which is either supplied with or referred to in the notice, and shall assess the costs and benefits of applying techniques described in that guidance, or otherwise identified by the Operator, that may provide environmental improvement.
- 4.1.7 The Operator shall, within two months of the date of this permit, submit a detailed Site Protection and Monitoring Programme, in accordance with and using the appropriate template format given in the Land Protection Guidance. The Operator shall implement and maintain the Site Protection and Monitoring Programme (SPMP) submitted under condition 4.1.7, and shall carry out regular reviews of it at a minimum frequency of every 2 years. The results of such reviews and any changes made to the SPMP shall be reported to the Agency within 1 month of the review or change.
- 4.1.8 The Operator shall submit to the Agency reports estimating the total mass releases to air of each of the substances listed in Table S4.3 in Schedule 4. Reports should be provided in respect of each of the periods specified in Table S4.4 in Schedule 4, **within 28 days of the end of the relevant period**. The information must be furnished by submission of:
- Either - a completed electronic spreadsheet (previously supplied) as an attachment to an e-mail. The address to use until further notice is **PIRHelp@environment-agency.gov.uk**; or

**Reporting**

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- A completed electronic spreadsheet, via a CD-ROM sent to your local Inspector at your normal reporting address; or
- Three copies of the completed form specified in Table S3 to Schedule 3 to the Agency at your normal reporting address.

4.1.9. The Operator shall monitor on an annual basis the deposition of dust and the concentration of PM10 the concentration of lead and the concentration of NOx in order to assess the contribution made to local levels by the installation. The monitoring shall be agreed in writing by the Environment Agency and include:

- The deposition of dust upwind and downwind of the Installation particularly taking into account steel making, the scrap yard and the handling and processing of steel making slag.
- The directional dust flux upwind and downwind of the Installation particularly taking into account steel making, the scrap yard and the handling and processing of steel making slag.
- PM10 concentrations at the point of predicted maximum ground level concentration.

The Operator shall demonstrate that the selection of monitoring locations will not under represent concentrations of the above substances experienced in the local community.

The Operator shall ensure that any failure of the monitoring equipment shall be brought to the attention of the Agency as soon as possible, and that the equipment is repaired within 2 weeks.

The Operator shall submit a written environmental monitoring report to the Environment Agency. The first report shall be submitted by 31 December 2006.

## 5. Notifications

### 5.1.1 The Operator shall notify the Agency **without delay** of:-

- 5.1.1.1 the detection of an emission of any substance which exceeds any limit or criterion in this Permit specified in relation to the substance;
- 5.1.1.2 the detection of any fugitive emission which has caused, is causing or may cause significant pollution;
- 5.1.1.3 the detection of any malfunction, breakdown or failure of plant or techniques which has caused, is causing or has the potential to cause significant pollution; and
- 5.1.1.4 any accident which has caused, is causing or has the potential to cause significant pollution.

### 5.1.2 The Operator shall submit written confirmation to the Agency of any notification under condition 5.1.1, by sending:-

- 5.1.2.1 the information listed in Part A of Schedule 1 to this Permit within 24 hours of such notification; and
- 5.1.2.2 the more detailed information listed in Part B of that Schedule as soon as practicable thereafter;

and such information shall be in accordance with that Schedule.

### 5.1.3 The Operator shall give written notification as soon as practicable prior to any of the following:-

- 5.1.3.1 permanent cessation of the operation of part or all of the Permitted Installation;
- 5.1.3.2 cessation of operation of part or all of the Permitted Installation for a period likely to exceed 1 year; and
- 5.1.3.3 resumption of the operation of part or all of the Permitted Installation after a cessation notified under condition 5.1.3.2.

### 5.1.4 The Operator shall notify the Agency, as soon as reasonably practicable, of any information concerning the state of the Site which adds to that provided to the Agency as part of the Application or to that in the Site Protection and Monitoring Programme submitted under condition 4.1.7 of this Permit.

### 5.1.5 The Operator shall notify the following matters to the Agency in writing within 14 days of their occurrence:-

#### 5.1.5.1 where the Operator is a registered company:-

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

#### 5.1.5.2 where the Operator is a corporate body other than a registered company:

- any change in the Operator's name or address;
- any steps taken with a view to the dissolution of the Operator.

#### 5.1.5.3 In any other case: -

- the death of any of the named Operators (where the Operator consists of more than one named individual);

**Notifications**

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- any change in the Operator's name(s) or address(es);
- 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 them being in a partnership, dissolving the partnership;

5.1.6 Where the Operator has entered into a Climate Change Agreement with the Government, the Operator shall notify the Agency within one month of:-

5.1.6.1 a decision by the Secretary of State not to re-certify that Agreement.

5.1.6.2 a decision by either the Operator or the Secretary of State to terminate that agreement.

5.1.6.3 any subsequent decision by the Secretary of State to re-certify such an Agreement.

5.1.7 Where the Operator has entered into a Direct Participant Agreement in the Emissions Trading Scheme which covers emissions relating to the energy consumption of the activities, the Operator shall notify the Agency within one month of:-

5.1.7.1 a decision by the Operator to withdraw from or the Secretary of State to terminate that agreement.

5.1.7.2 a failure to comply with an annual target under that Agreement at the end of the trading compliance period.

## 6. Interpretation

6.1.1 In this Permit, the following expressions shall have the following meanings:-

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

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

- water supplied to the site; or
- where more than 50% of the water used at the site is directly abstracted from ground or surface water on site, the abstracted water; or
- where the Permitted Installation uses no significant amount of supplied or abstracted water, the precipitation on to the site.

*"BAT"* means best available techniques means the most effective and advanced stage of development of activities and their methods of operation which indicates the practical suitability of particular techniques to prevent and where that is not practicable to reduce emissions and the impact on the environment as a whole. For these purposes: "available techniques" means "those techniques which have been developed on a scale which allows implementation in the relevant industrial sector, under economically and technically viable conditions, taking into consideration the cost and advantages, whether or not the techniques are used or produced inside the United Kingdom, as long as they are reasonably accessible to the operator"; "best" means "in relation to techniques, the most effective in achieving a high general level of protection of the environment as a whole" and "techniques" "includes both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned." . In addition, Schedule 2 of the PPC Regulations has effect in relation to the determination of BAT.

*"Fugitive emission"* means an emission to air or water (including sewer) from the Permitted Installation which is not controlled by an emission or background concentration limit under conditions 2.2.1.3, 2.2.2.4, 2.2.2.5, 2.2.2.8 or 2.2.2.9 of this Permit.

*"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.

*"Land Protection Guidance"* means the version of the Agency guidance note "H7 - Guidance on the Protection of Land under the PPC Regime: Application Site Report and Site Protection and Monitoring Programme", including its appended templates for data reporting, which is current at the time of issue of the Permit.

*" $L_{Aeq,T}$ "* means the equivalent continuous A-weighted sound pressure level in dB determined over time period, T.

*" $L_{A90,T}$ "* means the A-weighted sound pressure level in dB exceeded for 90% of the time period, T.

*" $L_{AFmax}$ "* means the maximum A weighted sound level measurement in dB measured with a fast time weighting.

*"MCERTS"* means the Environment Agency's Monitoring Certification Scheme.

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

*"Permitted Installation"* means the activities and the limits to those activities described in Table 1.1.1 of this Permit.



*"PPC Regulations"* means the Pollution, Prevention and Control (England and Wales) Regulations SI 2000 No.1973 (as amended) and words and expressions defined in the PPC Regulations shall have the same meanings when used in this Permit save to the extent they are specifically defined in this Permit.

*"Sewer"* means sewer within the meaning of section 219(1) of the Water Industry Act 1991.

*"Staff"* includes employees, directors or other officers of the Operator, and any other person under the Operator's direct or indirect control, including contractors.

*"Year"* means calendar year ending 31 December.

6.1.2 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.

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

6.1.3.1 in relation to gases from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or

6.1.3.2 in relation to gases from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content

6.1.4 Where any condition of this Permit refers to the whole or parts of different documents, in the event of any conflict between the wording of such documents, the wording of the document(s) with the most recent date shall prevail to the extent of such conflict.

## Schedule 1 - Notification of abnormal emissions

This page outlines the information that the Operator must provide to satisfy conditions 5.1.1 and 5.1.2 of this Permit.

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 PPC Regulations.

### Part A

Permit Number	
Name of Operator	
Location of Installation	
Location of the emission	
Time and date of the emission	

Substance(s) emitted	Media	Best estimate of the quantity or the rate of emission	Time during which the emission took place

Measures taken, or intended to be taken, to stop the emission	
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### Part B

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 or harm which has been or may be caused by the emission	
The dates of any unauthorised emissions from the installation in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

\* authorised to sign on behalf of CELSA Manufacturing (UK) Ltd

## Schedule 2 - Reporting of monitoring data

Parameters for which reports shall be made, in accordance with conditions 4.1.2 and 4.1.3 of this Permit, are listed below.

**Table S2: Reporting of monitoring data**

Parameter	Emission point	Reporting period	Period begins
Particulates mg m <sup>-3</sup>	A1 A2	Quarterly Annual	
Carbon Monoxide mg m <sup>-3</sup>	A1	Quarterly	
Sulphur dioxide mg m <sup>-3</sup>	A1	Annual	
Oxides of nitrogen mg m <sup>-3</sup>	A1	Annual	
VOC as Carbon mg m <sup>-3</sup>	A1	Annual	
PCDD/F ng m <sup>-3</sup>	A1	Annual	
Metals <sup>(1)</sup> mg m <sup>-3</sup>	A1	Annual	01 January 2006 (Note 3)
PAH ng m <sup>-3</sup>	A1	Annual	
PCB ng m <sup>-3</sup>	A1	Annual	
Lead	Installation	Every 3 months	
Suspended solids mg l <sup>-1</sup>	S1 <sup>(2)</sup> , S3	Annual	
pH	S1 <sup>(2)</sup> , S3	Annual	
Oil and Grease mg l <sup>-1</sup>	S1 <sup>(2)</sup> , S3	Annual	
Metals <sup>(1)</sup> mg l <sup>-1</sup>	S1 <sup>(2)</sup> , S3	Annual	
Flow m <sup>3</sup> /day	S1 <sup>(2)</sup> , S3	Annual	
Environmental Monitoring	Installation	Annual	
Energy usage	Installation	Annual	
Waste disposal and/or recovery.	Installation	Annual	

### Notes

- 1 Metals means elements & compounds expressed as the metal of: Ni, As, Cd, Cr, Cu, Pb, Hg, Fe, Zn.
- 2 Should a discharge occur from release point S1, then data shall be reported at the end of the relevant quarter.
- 3 Or should the installation commissioning be delayed, as agreed with the Agency.

## Schedule 3 - Forms to be used

Table S3: Reporting Forms		
Media / parameter	Form Number	Date of Form
Air	A1	11/05/05
Air	A2	11/05/05
Sewer	S1	11/05/05
Energy	E1	11/05/05
Waste Return	R1	11/05/05
Performance indicators	PI1	11/05/05
Quarterly Substance reports	SC1	11/05/05



## Schedule 4 - Reporting of performance data

Data required to be recorded and reported by Condition 4.1.3. The data should be assessed at the frequency given and reported annually to the Agency.

Table S4.1: Annual Production/Treatment	
Production of liquid steel	x (tonnes)

Table S4.2: Performance parameters			
Parameter		Frequency assessment of	Performance indicator
Particulates released		Quarterly	Kg Particulates / TLS

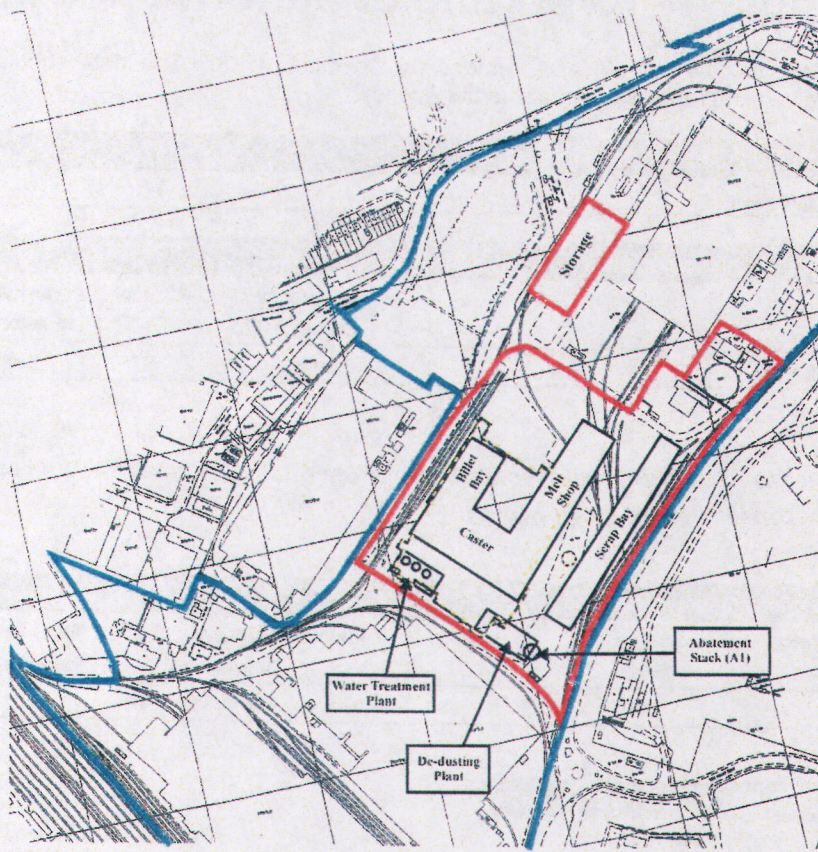
Data required to be recorded and reported by Condition 4.1.8. The data should be assessed for the periods given and reported quarterly to the Agency.

Table S4.3: Periodic Substance Reports				
Parameter	Units	Medium	Frequency of assessment	Mass released in the Reporting Period
Lead	Kg	Air	Periods Table S4.4	

Table S4.4: Reporting periods for Table S4.3	
From	To
1 April	30 June
1 July	30 September
1 October	31 December
1 January	31 March



## Schedule 5 - Site Plan



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END OF PERMIT