Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

CELSA Manufacturing (UK) Limited

Tremorfa Melt Shop
Tremorfa Works
Seawall Road
Cardiff
CF24 5TH

Permit number

EPR/TP3639BH

Tremorfa Melt Shop
Permit number EPR/TP3639BH

Introductory note

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

The main features of the permit are as follows.

The Tremorfa Melt Shop consists of two regulated facilities comprising the Chapter 2, S2.1, Part A(1)(b)(i) installation and a waste operation.

The Chapter 2, S2.1, Part A(1)(b)(i) installation produces steel billet from scrap using an electric arc furnace and continuous casting. The plant was newly built in 2006 with a design capacity of approximately 1.3 million tonnes of finished billet per year (27,000 tonnes per week). The steel plant can operate 24 hours per day, seven days per week, for up to 52 weeks per year with planned maintenance occurring as and when required.

The waste operation is involved with the storage and processing of by-products from the adjacent CELSA steelworks. The permitted operations comprise a waste transfer station, mill scale treatment area, and a storage area for the weathering of processed Electric Arc Furnace (EAF) slag. EAF slag is a by-product of the EAF process and when weathered can be sold as a useful mineral aggregate.

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 TP3639BH	Received 15/10/04	
Request for additional information	22/12/04	
Additional information received	03/02/05	
Request to extend determination	18/03/05	
Request accepted	22/03/05	
Request to extend determination	29/04/05	
Request accepted	03/05/05	
Permit determined TP3639BH	11/05/05	
Application EPR/TP3639BH/V002 (variation and consolidation)	Duly made 21/12/11	Application to vary, consolidate and update the permit to modern conditions.
Request for additional information	17/02/12	Trade effluent consent for emission point S1 and updated site plan showing emission point locations.
EA request to extend determination date to 20/04/12	20/03/12	
Extension request agreed	22/03/12	
Additional information received	23/02/12 & 10/04/12	
Variation determined Consolidated Permit: EPR/TP3639BH	24/04/12	Varied and consolidated permit issued in modern condition format. The following permits have been consolidated: EPR/TP3639BH, EPR/BU2098IP and EPR/WP3699FQ
Regulation 60(1) Notice of request for more information	03/09/13	
Regulation 60(1) response received	30/04/14	Implementations of BAT conclusions under IED
Natural Resources Wales Iron and Steel Sector Review 2014 Permit EPR/TP3639BH Variation issued EPR/TP3639BH/V003	17/11/15	Varied and consolidated permit issued in modern IED condition format

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number
EPR/TP3639BH

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/TP3639BH/V003 authorising,

CELSA Manufacturing (UK) Limited ("the operator"),

whose registered office is

Building 58
East Moors Road
Cardiff
CF24 5NN

company registration number 4577881

to operate an installation and waste operation at

Tremorfa Melt Shop
Tremorfa Works
Seawall Road
Cardiff
CF24 5TH

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

Name	Date
	**17th November 2015**

Eirian Macdonald

Authorised on behalf of Natural Resources Wales

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 Natural Resources Wales].

1.2 Energy efficiency

1.2.1 For the following activities referenced in schedule 1, table S1.1, A1 to A8. 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 For the following activities referenced in schedule 1, table S1.1, A1 to A8. The operator shall:

(a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;

(b) maintain records of raw materials and water used in the activities;

(c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and

(d) take any further appropriate measures identified by a review.

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

1.4.1 The operator shall take appropriate measures to ensure that:

(a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and

(b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and

(c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.

1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

2 Operations

2.1 Permitted activities

2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the "activities").

2.1.2 For the following activities referenced in schedule 1, table S1.1 (A3 and A9) waste authorised by this permit shall be clearly distinguished from any other waste on the site.

2.2 The site

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

2.3 Operating techniques

2.3.1 (a) 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 Natural Resources Wales.

(b) If notified by Natural Resources Wales that the activities are giving rise to pollution, the operator shall submit to Natural Resources Wales 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 Natural Resources Wales.

2.3.2 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.

2.3.3 Waste shall only be accepted if:

(a) it is of a type and quantity listed in schedule 2 tables S2.2 and S2.3; and

(b) it conforms to the description in the documentation supplied by the producer and holder.

2.3.4 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.

2.3.5 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.

2.3.6 The operator shall obtain written agreement from Natural Resources Wales prior to any period of use of the mobile crushing and screening plant.

2.3.7 The operator shall obtain written agreement from Natural Resources Wales prior to any lancing of steel pieces outside the lancing booth.

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 Natural Resources Wales.

2.4.2 Except in the case of an improvement which consists only of a submission to Natural Resources Wales, the operator shall notify Natural Resources Wales 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 and S3.2.

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 Natural Resources Wales that the activities are giving rise to pollution, submit to Natural Resources Wales 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 Natural Resources Wales.

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 Natural Resources Wales, 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 Natural Resources Wales that the activities are giving rise to pollution outside the site due to odour, submit to Natural Resources Wales 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 Natural Resources Wales.

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 Natural Resources Wales, 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 Natural Resources Wales that the activities are giving rise to pollution outside the site due to noise and vibration, submit to Natural Resources Wales 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 Natural Resources Wales.

3.5 Monitoring

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

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

(b) ambient air monitoring specified in table S3.3.

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 Natural Resources Wales.

3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1 and S3.2 unless otherwise agreed in writing by Natural Resources Wales.

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 Natural Resources Wales, 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 Natural Resources Wales.

4.2 Reporting

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

4.2.2 For the following activities referenced in schedule 1, table S1.1, A1 to A8. A report or reports on the performance of the activities over the previous year shall be submitted to Natural Resources Wales by 31 January (or other date agreed in writing by Natural Resources Wales) 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; and

(b) the annual production / treatment data set out in schedule 4 table S4.2.

4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by Natural Resources Wales, 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 S4.2 ; 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 Natural Resources Wales, 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 For the following activities referenced in schedule 1, table S1.1, A1 to A8. Within 1 month of the end of each quarter, the operator shall submit to Natural Resources Wales 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.

4.2.6 For the following activities referenced in schedule 1, table S1.1, A9. Within 1 month of the end of each quarter, the operator shall submit to Natural Resources Wales 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.

4.3 Notifications

4.3.1 Natural Resources Wales shall be notified without delay following the detection of:

(a) 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;

(b) any failure of the ambient air monitoring equipment;

(c) the breach of a limit specified in the permit; or

(d) any significant adverse environmental effects.

4.3.2 Any information provided under condition 4.3.1 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 Natural Resources Wales has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform Natural Resources Wales when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to Natural Resources Wale at least 14 days before the date the monitoring is to be undertaken.

4.3.4 Natural Resources Wales shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

(a) any change in the operator's trading name, registered name or registered office address; and

(b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

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

(a) any change in the operator's name or address; and

(b) any steps taken with a view to the dissolution of the operator.

In any other case:

(a) the death of any of the named operators (where the operator consists of more than one named individual);

(b) any change in the operator's name(s) or address(es); and

(c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

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

(a) Natural Resources Wales 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 Natural Resources Wales 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, Natural Resources Wales 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	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)(i)]	The operation of an electric arc furnace, including ladle furnace; continuous caster; fume extraction plant; baghouse dust storage; oxygen, argon and nitrogen storage.	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. Waste types as specified in Table S2.2.
Directly Associated Activity			
A2	Section 5.4 Part A(1) (b) (iii) Recovery or a mix of recovery and disposal of non-hazardous waste in an installation with a capacity of over 75 tonnes per day (or 100 tonnes per day if the only waste treatment activity is anaerobic digestion) involving one or more of the following activities, and excluding activities covered by Council Directive 91/271/EEC - treatment of slags and ashes.	Slag collection and transfer from installation to waste operation Cooling and breaking of hot metal residues by drop balling and oxygen lancing prior to return to the electric arc furnace. **R4**: Recycling/reclamation of metals and metal compounds **R13**: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	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. Waste types as listed in table S2.2
A3	Scrap handling and storage	Scrap unloading, sorting and storage. Loading into baskets and transfer to the furnaces. **R13**: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) **R4**: Recycling / reclamation of metals and metal compounds	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. Storage of waste scrap metal in dedicated scrap storage areas prior to submission to the scheduled activity. Storage shall be limited to: - 200,000 tonnes for waste type 20 01 40 - 1,000 tonnes for waste type 19 12 03 at any one time. Treatment shall be limited to: - sorting of waste scrap prior to submission to the scheduled activity

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**
A4	Other raw material handling	Unloading, storage and transfer to the furnaces.	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.
A5	Billet Storage	Storage in billet warehouse	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.
A6	Water Treatment Systems	Closed circuit water cooling systems and open circuit water treatment plant (removing scale).	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.
A7	Scale handling	Dewatering of scale removed in water treatment.	The limits of specified and associated activities collectively comprise all activities carried out in the installation between the receipt of raw materials and the supply of finished products.

Table continued overleaf

Directly Associated Activity (Continued)			
A8	Electric Arc Furnace Dust storage and handling	Storage of EAF dust collected from the EAF dust abatement plant prior to transportation off site for recovery	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. Storage shall be limited to: - 1,000 tonnes for waste type 10 02 07* at any one time.
A9 Waste transfer station with treatment	**R13**: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) **R3**: Recycling/ reclamation of organic substances which are not used as solvents **R4**: Recycling/ reclamation of metals and metal compounds **R5**: Recycling/ reclamation of other inorganic compounds	All non-hazardous waste must be stored and treated on an impermeable surface with sealed drainage. All inert wastes must be stored and treated on hardstanding or an impermeable surface with sealed drainage. Treatment operations shall be limited to: 1. manual sorting / separation 2. mechanical sorting / screening /separation 3. shredding 4. compaction 5. crushing of slag using dedicated plant 6. weathering of slag of waste into different components for recovery. Storage of the waste types specified below at any one time shall not exceed the limits given: 20 03 01 – 150 tonnes 17 01 07 – 1,000 tonnes 10 02 10 – 2,000 tonnes 10 02 99 – 3,000 tonnes 10 02 01 – 300,000 tonnes 16 11 02 – 1,000 tonnes Waste types as specified in Table S2.3. Notwithstanding the waste types permitted in table S2.3 wastes which have any of the following characteristics shall not be accepted; - wastes consisting of or contaminated with Japanese Knotweed - wastes consisting of or contaminated with asbestos - consisting solely or mainly of dusts, powders, or loose fibres - hazardous wastes - wastes in the form of liquid or sludge - liquefied petroleum gas cylinders - any putrescible wastes - healthcare or clinical wastes	

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Application TP3639BH	The response given 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 (Application TP3639BH)	Responses to questions S1.3 Q28 S2.1 Q3 S2.2 Q1 S2.3 Q3, Q13	03/02/05
Application EPR/TP3639BH/V002	The response to Form C2, question 5a given on page 8 of main application document 11-1079 – confirming that the boundary of the original scrap storage area is being extended to reflect current usage patterns.	25/10/11
Application EPR/TP3639BH/V002 Further Information Required for Duly Making	The response to question 2 – confirming that scrap metal storage and handling in the area of the former old melt shop permit (EPR/BU2098IP) will take place within the Old Melt Shop building for noise attenuation purposes. The response to question 3 – outlining the control measures used to prevent pollution from the scrap metal storage area within the Old Melt Shop building. The response to question 6 – detailing control measures in place to minimise the environmental impact of the drop ball process. The response to question 7 – detailing the Lancing booth specification and abatement equipment. "Downflo® II Dust Collectors" – specification of the dust collectors serving the Lancing Booth Harsco Metals Work Instruction: "Lancing of Skulls from within a Lancing Booth"	21/12/11
Information received in support of Natural Resources Wales Iron and Steel Sector Permit Review 2014	All parts of operator response to Regulation 60 (1) notice	03/09/13

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC1	The Operator shall review the most appropriate method(s) for the abatement of fume releases from casting operations such that the visible release of casting fume through the caster / billet bay roof vents is minimised. The feasibility of implementing such abatement and / or techniques shall be assessed in detail to include engineering, timescales and costs. A report shall be submitted to the Environment Agency that describes the appropriate method(s), together with an implementation and commissioning schedule.	01/11/12
IC2	The Operator shall complete any agreed improvements to abatement and / or techniques to the caster / billet bay, to an agreed timescale, such that fugitive releases to air from the casting operation are minimised effectively.	01/11/13
IC3	The operator shall submit, for approval by Natural Resources Wales, a report setting out progress to achieving the BAT Conclusion AELs where BAT is currently not achieved, but will be achieved by March 2016. The report shall include, but not be limited to, the following: 1) Current performance against the BAT Conclusion AEL. 2) Methodology for reaching the AELs. 3) Associated targets / timelines for reaching compliance by 8th March 2016. The report shall address the following BAT Conclusions: 10, 16 and 89.	Progress report to be submitted on 31/12/15

Schedule 2 - Waste types, raw materials and fuels

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

Table S2.2 Permitted waste types and quantities for use in the Melt Shop Activity	
Maximum quantity	No annual maximum throughput subject to storage limits for specified waste in Table S1.1
Waste code	**Description**
19	**WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE**
19 12	Wastes from the mechanical treatment of waste (for example, sorting, crushing, compacting, pelletising) not otherwise specified
19 12 03	Non-ferrous metal
20	**MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS**
20 01	Separately collected fractions (except 15 01)
20 01 40	Metals

Table S2.3 Permitted waste types and quantities for Waste Transfer Station and Treatment	
Maximum quantity	The total quantity of waste accepted at the site shall be less than 450,000 tonnes a year subject to storage limits for specified waste in Table S1.1.
Waste code	**Description**
10	**WASTES FROM THERMAL PROCESSES**
10 02	Wastes from the iron and steel industry
10 02 01	Wastes from the processing of slag
10 02 10	Millscales
10 02 99	Wastes not otherwise specified
16	**WASTES NOT OTHERWISE SPECIFIED IN THE LIST**
16 11	Waste linings and refractories
16 11 02	Carbon-based linings and refractories from metallurgical processes other than those mentioned in 16 11 01.
17	**CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)**
17 01	Concrete, bricks, tiles and ceramic
17 01 07	Mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
20	**MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS**
20 03	Other municipal wastes
20 03 01	Mixed municipal waste

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements until 07/03/2016

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 [Point A1 on Site Plan in Schedule 7]	Furnace fume extraction plant stack	Particulates (2)	10 mg/m^3	Hourly average	Continuous	BS ISO 10155
		Particulates (1)	10 mg/m^3		Annual	BS EN 13284-1:2002
		Carbon Monoxide (2)	100 mg/m^3	Hourly average	Continuous	ISO 12039
		Oxides of Nitrogen (as NO_x) (1)	25 mg/m^3		Annual	ISO 10849
		Sulphur Dioxide	25 mg/m^3	15 minute average	Annual	BS 6069: Section 4.4:1993 (ISO 7935:1992)
		PCDD/F	0.3 ng/m^3		Annual	BS EN 1948
		VOC (1)	20 mg/m^3		Annual	BS EN 12619
		Metals (3)	No Limit Set		Annual	USEPA Method 29 or BS EN 14385
		PAH (1)	No Limit Set		Annual	BS EN 1948
		PCB (1)	No Limit Set		Annual	BE EN 1948
A2 [Point A2 on Site Plan in Schedule 7]	Materials handling extraction plant stack	Particulates (1)	10 mg/m^3		Annual	BS EN 13284-1:2002
A3 [Point A3 on Site Plan in Schedule 7]	Water Cooling Towers	No Parameters set	No limit set	-	-	-
A4 [Point A4 on Site Plan in Schedule 7]	Lancing Fume Booth	Particulate Matter	Ringelmann Shade 1	Instantaneous	Daily	BS2742:1969

Notes:

1. Refers to any representative manual spot sample
2. 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 limit value given in Table S3.1 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.
3. Metals means elements and compounds expressed as the metal of: Ni, As, Cd, Cr, Cu, Pb, Hg, Fe, Zn.

Table S3.1 Point source emissions to air – emission limits and monitoring requirements from 08/03/2016						
Emission point ref. & location	**Source**	**Parameter**	**Limit (including unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
A1 [Point A1 on Site Plan in Schedule 7]	Furnace fume extraction plant stack	Particulates (2)	5 mg/m^3	Daily average	Continuous	BS ISO 10155
		Particulates (1)	5 mg/m^3		Annual	BS EN 13284-1:2002
		Carbon Monoxide (2) (3)	100 mg/m^3	Hourly average	Continuous	ISO 12039
		Oxides of Nitrogen (as NO_x) (1)	25 mg/m^3		Annual	ISO 10849
		Sulphur Dioxide	25 mg/m^3	15 minute average	Annual	BS 6069: Section 4.4:1993 (ISO 7935:1992)
		PCDD/F	0.1 ng/m^3	6-8 hours random sampling during steady-state conditions	Annual	BS EN 1948
		VOC (1)	20 mg/m^3		Annual	BS EN 12619
		Metals (4)	No limit set		Annual	USEPA Method 29 or BS EN 14385
		Mercury	0.05 mg/m^3	Spot samples for at least four hours	Annual	BS EN 13649
		PAH (1)	No Limit Set		Annual	BS EN 1948
		PCB (1)	No Limit Set		Annual	BE EN 1948
A2 [Point A2 on Site Plan in Schedule 7]	Materials handling extraction plant stack	Particulates (1)	10 mg/m^3		Annual	BS EN 13284-1:2002
A3 [Point A3 on Site Plan in Schedule 7]	Water Cooling Towers	No Parameters set	No limit set	-	-	-
A4 [Point A4 on Site Plan in Schedule 7]	Lancing Fume Booth	Particulate Matter	Ringelmann Shade 1	Instantaneous	Daily	BS2742:1969

Notes:

1. Refers to any representative manual spot sample
2. The averaging period shall only include those hours during which the plant is in operation including start-up and shut-down.
3. 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 limit value given in Table S3.1 and the peak hourly average does not exceed 1.5 times the limit value.
4. Metals means elements and compounds expressed as the metal of: Ni, As, Cd, Cr, Cu, Pb, Fe, Zn.

Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off site- emissions limits and monitoring requirements until 07/03/2016						
Emission point ref. & location	**Source**	**Parameter**	**Limits (incl. unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
S1 [Point S1 on Site Plan in Schedule 7]	Occasional overflow from cooling tower cold well and the clarifier, released to Dŵr Cymru Welsh Water sewer at S2	Free or emulsified grease or oil	5 mg/l	Spot Sample	Midway through drain down of cooling system	Material soluble in 1,1,2-trichloro-trifluoroethane
		Suspended solids	No limit set			The solids shall be separated and dried at 105°C
		pH	6-10			BS 6068-2.50:1995, ISO 10523:1994
		Nickel	0.5 mg/l			BS 6068-2.60:1998, BS EN ISO 11885 1998
		Arsenic	0.01 mg/l			BS 6068-2.60:1998, BS EN ISO 11885 1998
		Cadmium	0.05 mg/l			BS 6068-2.60:1998, BS EN ISO 11885 1998
		Chromium	0.2 mg/l			BS 6068-2.60:1998, BS EN ISO 11885 1998
		Zinc	0.5 mg/l			BS 6068-2.60:1998, BS EN ISO 11885 1998
		Mercury	0.02 mg/l			BS 6068-2.74:2002, BS EN ISO 13506:2002
		Iron Compounds	5 mg/l			BS 6068-2.60:1998, BS EN ISO 11885 1998
		Flow	No Limit Set	Daily total flow	Continuous	Flow meter

Table continued overleaf

Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off site- emissions limits and monitoring requirements until 07/03/2016						
Emission point ref. & location	**Source**	**Parameter**	**Limits (incl. unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
S2 [Point S1 on Site Plan in Schedule 7]	Site roof water run-off from dust extraction plant to SW corner or installation combined with any flow from occasional cooling water discharge from S1 in this table	Free or emulsified grease or oil	5 mg/l	Spot Sample	Annual	Material soluble in 1,1,2-trichloro-trifluoroethane
		Suspended solids	200 mg/l	Spot Sample	Annual	The solids shall be separated and dried at 105°C
		pH	6-10	Spot Sample	Annual	BS 6068-2.50:1995, ISO 10523:1994
		Nickel	0.5 mg/l	Spot Sample	Annual	BS 6068-2.60:1998, BS EN ISO 11885 1998
		Arsenic	0.01 mg/l	Spot Sample	Annual	BS 6068-2.60:1998, BS EN ISO 11885 1998
		Cadmium	0.05 mg/l	Spot Sample	Annual	BS 6068-2.60:1998, BS EN ISO 11885 1998
		Chromium	0.2 mg/l	Spot Sample	Annual	BS 6068-2.60:1998, BS EN ISO 11885 1998
		Zinc	0.5 mg/l	Spot Sample	Annual	BS 6068-2.60:1998, BS EN ISO 11885 1998
		Mercury	0.02 mg/l	Spot Sample	Annual	BS 6068-2.74:2002, BS EN ISO 13506:2002
		Iron Compounds	5 mg/l	Spot Sample	Annual	BS 6068-2.60:1998, BS EN ISO 11885 1998
S3 [Point S3 on site plan in Schedule 7]	Site surface water run-off from hardstanding to all but SE corner of installation, combined with foul water from site amenities	No parameters set	No limit set	-	-	-

Table continued overleaf

Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off site- emissions limits and monitoring requirements until 07/03/2016						
Emission point ref. & location	**Source**	**Parameter**	**Limits (incl. unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
S4 [Point S4 on site plan in Schedule 7]	Surface water run-off	No parameters set	No limit set	-	-	-

Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off site- emissions limits and monitoring requirements from 08/03/2016						
Emission point ref. & location	**Source**	**Parameter**	**Limits (incl. unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
S1 [Point S1 on Site Plan in Schedule 7]	Occasional overflow from cooling tower cold well and the clarifier, released to Dŵr Cymru Welsh Water sewer at S2	Total hydrocarbons	5 mg/l	Spot Sample	Midway through drain down of cooling system	SCA blue book 77 ISBN 0117517283 2002 or other ISO, BS or SCA blue book method as approved by Natural Resources Wales
		Suspended solids	20 mg/l			BS EN 872:1996 or other ISO, BS or SCA blue book method as approved by Natural Resources Wales
		pH	6-10			BS 6068-2.50:1995, ISO 10523:1994
		Nickel	0.5 mg/l			BS 6068-2.60:1998, BS EN ISO 11885 1998
		Arsenic	0.01 mg/l			BS 6068-2.60:1998, BS EN ISO 11885 1998
		Cadmium	0.05 mg/l			BS 6068-2.60:1998, BS EN ISO 11885 1998
		Total Chromium	0.5 mg/l			BS EN ISO 15586 BS EN ISO 11885 1998
		Zinc	2 mg/l			BS 6068-2.60:1998, BS EN ISO 11885 1998
		Mercury	0.02 mg/l			BS 6068-2.74:2002, BS EN ISO 13506:2002
		Iron	5 mg/l			BS 6068-2.74:2002, BS EN ISO 13506:2002
		Flow	No Limit Set	Daily total flow	Continuous	Flow meter

Table continued overleaf

Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off site- emissions limits and monitoring requirements from 08/03/2016						
Emission point ref. & location	**Source**	**Parameter**	**Limits (incl. unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
S2 [Point S1 on Site Plan in Schedule 7]	Site roof water run-off from dust extraction plant to SW corner or installation combined with any flow from occasional cooling water discharge from S1 in this table	Total hydrocarbons	5 mg/l			SCA blue book 77 ISBN 0117517283 2002 or other ISO, BS or SCA blue book method as approved by Natural Resources Wales
		Suspended solids	20 mg/l	Spot Sample	Annual	BS EN 872:1996 or other ISO, BS or SCA blue book method as approved by Natural Resources Wales
		pH	6-10	Spot Sample	Annual	BS 6068-2.50:1995, ISO 10523:1994
		Nickel	0.5 mg/l	Spot Sample	Annual	BS 6068-2.60:1998, BS EN ISO 11885 1998
		Arsenic	0.01 mg/l	Spot Sample	Annual	BS 6068-2.60:1998, BS EN ISO 11885 1998
		Cadmium	0.05 mg/l	Spot Sample	Annual	BS 6068-2.60:1998, BS EN ISO 11885 1998
		Total Chromium	0.5 mg/l	Spot Sample	Annual	BS EN ISO 15586 BS EN ISO 11885 1998
		Zinc	2 mg/l	Spot Sample	Annual	BS 6068-2.60:1998, BS EN ISO 11885 1998
		Mercury	0.02 mg/l	Spot Sample	Annual	BS 6068-2.74:2002, BS EN ISO 13506:2002
		Iron	5 mg/l	Spot Sample	Annual	BS EN ISO 15586 BS EN ISO 11885 1998
		No parameters set	No limit set	-	-	-
S3 [Point S3 on site plan in Schedule 7]	Site surface water run-off from hardstanding to all but SE corner of installation, combined with foul water from site amenities					

Table continued overleaf

Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off site- emissions limits and monitoring requirements from 08/03/2016						
Emission point ref. & location	**Source**	**Parameter**	**Limits (incl. unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
S4 [Point S4 on site plan in Schedule 7]	Surface water run-off	No parameters set	No limit set	-	-	-

Table S3.3 Ambient air monitoring requirements				
Location or description of point of measurement	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**	**Other specifications**
NGR ST 21118 76755 (Willows High School) or other agreed location	Wind Direction	Continuous	Turnkey Optical Particle Analysis System (TOPAS) monitor or other agreed method	-
	Wind Velocity			
	PM_{10} Particulate Matter			
	$PM_{2.5}$ Particulate matter			

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	Quarterly	01/01, 01/04, 01/07, 01/10
Emissions to air Parameters as required by condition 3.5.1.	A1, A2	Annual	01/01
Ambient air monitoring Parameters as required by condition 3.5.1	NGR ST 21118 76755 (Willows High School) or other agreed location	Quarterly	01/01, 01/04, 01/07, 01/10
Emissions to sewer Parameters as required by condition 3.5.1	S1, S2	Annual	01/01

Table S4.2 Reporting forms

Media/parameter	Reporting format	Date of form
Air	Form Air 1 or other form as agreed in writing by Natural Resources Wales	06/04/10
Air	Form Air 2 or other form as agreed in writing by Natural Resources Wales	24/04/12
Ambient Air	Agreed Format or other form as agreed in writing by Natural Resources Wales	N/A
Sewer	Form Sewer 1 or other form as agreed in writing by Natural Resources Wales	24/04/12
Waste Subject to Conditions 4.2.5 and 4.2.6	Waste tonnage return form from the Environment Agency website or other form as agreed in writing by Natural Resources Wales	N/A

Schedule 5 - Notification

These pages outline the information that the operator must provide.

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

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

Part A

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

(a) Notification requirements for any activity that gives rise to an incident or accident which significantly affects or may significantly affect the environment	
To be notified Immediately	
Date and time of the event	
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 permit condition	
To be notified immediately	
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) In the event 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:	
To be notified immediately	
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 CELSA Manufacturing (UK) Limited

Schedule 6 - Interpretation

"accident" means an accident that may result in pollution.

"Annex I" means Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

"Annex II" means Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

"annually" means once every year.

"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 Natural Resources Wales 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.

"D" means a disposal operation provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

"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 limit.

"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.

"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 given in Schedule 3 of the Hazardous Waste (England and Wales) Regulations 2005 No.894 and the Hazardous Waste (Wales) Regulations 2005 No. 1806 (W.138).

"hazardous waste" has the meaning given in the Hazardous Waste (England and Wales) Regulations 2005 No.894, the Hazardous Waste (Wales) Regulations 2005 No. 1806 (W.138), the List of Wastes (England) Regulations 2005 No.895 and the List of Wastes (Wales) Regulations 2005 No. 1820 (W.148).

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

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

"quarter" means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

"R" means a recovery operation provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

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

"Waste Framework Directive" or "WFD" means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste.

"year" means calendar year ending 31 December.

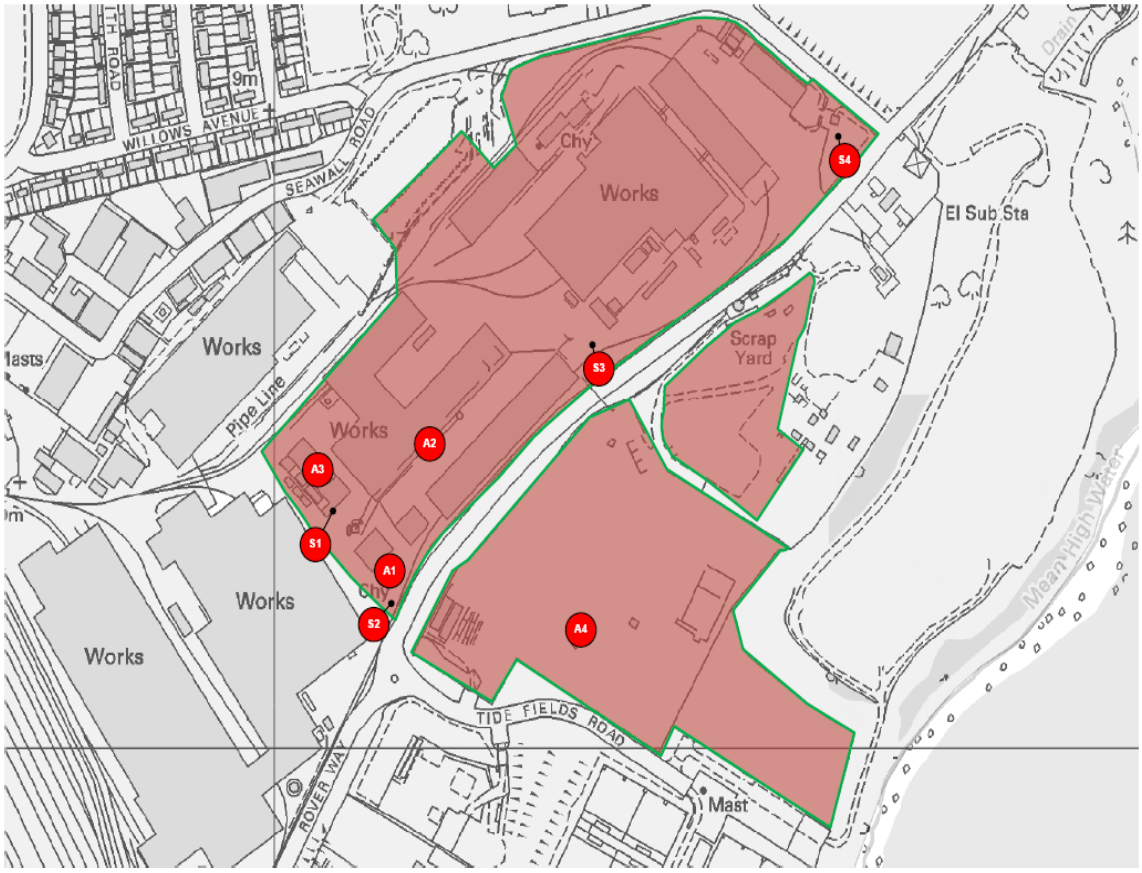
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

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

(a) in relation to emissions 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

(b) in relation to emissions 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

Schedule 7 - Site plan



END OF PERMIT