

29 January 2015

Mrs E A Parr
PPC Compliance Assistant
Natural Resources Wales
Rivers House
St Mellons Business Park
St Mellons
CARDIFF
CF3 0EY

Our Ref: W:\Environmental\IPPC\Environment Agency Reporting\Permit Reporting\New Melt Shop\Annual\2014\TP3639BH
EA Annual Returns 2014.doc,

Dear Mrs Parr,

RE: Melt Shop EPR Permit TP3639BH Annual Returns 2014

In accordance with CELSA Manufacturing UK Ltd Environmental Permitting Regulations (EPR) Melt Shop Permit TP3639BH, please find forms A2, E1, PI1, R1, and S1 duly completed for the annual reporting period 2014.

Should you require any further information regarding these works please do not hesitate to contact me.

Yours sincerely



Sara Jones
Environmental Advisor

Enc

Permit Number: EPR/TP3639BH

Operator:

CELSA Manufacturing (UK) Limited

Facility: Tremorfa Melt Shop

Form Number:

Air 2 / 20/09/13

Reporting of emissions to air for the period fromJanuary 2014... to ...December 2014.....

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	% Uncertainty ^[4]
A1	Particulate Matter	10 mg/m ³		2.1 mg/m ³	BS EN 13284-1:2002	20/10/2014, 15:25-16.25	0.19
	Oxides of Nitrogen (as NO _x)	25 mg/m ³		21.95 mg/m ³	EN 14792:2005	15/10/2014, 13.10-17.10	1.1
	Sulphur Dioxide	25 mg/m ³	15 minute average	2.23 mg/m ³	BS EN 1948-1:1997	15/10/2014, 13.10-17.10	0.18
	PCDD/F	0.3 ng/m ³		0.038 ng/m ³	BS EN 1948-1:1997	15/10/2014, 13.10-17.10	0.011
	VOC	20 mg/m ³		4.3 mg/m ³	BS EN 12619	20/10/2014, 15:25-16.25	0.13
	PAH	No Limit Set		131.88 ug/m ³	ISO 111338-1:2004	20/10/2014, 10.06-12.06	40
	PCB	No Limit Set		0.02 ng/m ³	BS EN 1948-1:1997	15/10/2014, 13.10-17.10	0.006
	Total Metals including:			3.51 mg/m ³	EN 13211:2001 or BS EN 14385		
	Ni			0.0089 mg/m ³		20/10/2014, 15:25-16.25	0.0013
	As			0.0031 mg/m ³		20/10/2014, 15:25-16.25	0.00043
	Cd			0.096 mg/m ³		20/10/2014, 15:25-16.25	0.015
	Cr			0.017 mg/m ³		20/10/2014, 15:25-16.25	0.0019
	Cu			0.014 mg/m ³		20/10/2014, 15:25-16.25	0.002
	Pb			2.1 mg/m ³		20/10/2014, 15:25-16.25	0.35
	Hg			0.027 mg/m ³		20/10/2014, 15:25-16.25	0.0036

Permit Number: EPR/TP3639BH

Operator: CELSA Manufacturing (UK) Limited

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	% Uncertainty ^[4]
	Fe			0.29 mg/m ³		20/10/2014, 15:25-16.25	0.04
	Zn			0.95 mg/m ³		20/10/2014, 15:25-16.25	0.13
A2	Particulate Matter	10 mg/m ³		0.35 mg/m ³	BS EN 13284-1:2002	18/07/2014, 11.31-12.31	0.18

- [1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.
- [2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
- [3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
- [4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed Sk Jones
 (Authorised to sign as representative of Operator)

Date...29 January 2015

Permit Reference Number: TP3639BH

Operator : CELSA Manufacturing (UK) Ltd

Installation: Tremorfa New Melt Shop

Form Number: E1 [11/05/05]

Reporting of Energy Usage for the year2014.....

Energy Source	Energy Usage		CO ₂ Produced (tonnes)
	Quantity	Primary Energy (MWh)	
Electricity *	MWh	1094013	
Natural Gas	MWh	44300	8,422
TOTAL		1138313	8,422

* Conversion factor for delivered electricity to primary energy = 2.4

Trends in Energy Usage			
Year	Parameter		
	Primary Energy usage	CO ₂ produced	CO ₂ per unit output
2010	1,233,694	12,774	0.0119
2011	1,433,752	11,629	0.0103
2012	1,235,708	10,492	0.0095
2013	1235708	11212	0.0108
2014	1094013	8,422	0.0087

Operator's comments :

Signed St Jones
(authorised to sign as representative of the Operator)

Date...29 January 2015.

Permit Reference Number : TP3639BH

Operator : CELSA Manufacturing (UK) Ltd

Installation : Tremorfa New Melt Shop

Form Number : PI1 [11/05/05]

Reporting of Performance Indicators for the year2014.....

Annual Production	
Production of liquid steel	967,900 Tonnes liquid steel

Parameter	Quantity	Units
Electrical energy (delivered)	455,839,058	KWh
Particulates	20,148	Kgs
Water	576373	m ³

Trends in Environmental Performance			
Year	Parameter		
	Electricity consumption (KWh / t LS)	Particulates Released (g / t LS)	Towns / Commercial Water used (m ³ / t LS)
2010	503.41	5.99	0.535
2011	490.35	30.09	0.481
2012	465.62	25.88	0.502
2013	459.94	7.78	0.521
2014	470.96	20.82	0.600

Operator's comments

Signed Gl Jones
(authorised to sign as representative of the Operator)

Date...29 January 2015

Permit Reference Number: TP3639BH Operator: CELSA Manufacturing (UK) Ltd

Installation: Tremorfa New Melt Shop Form Number: R1 [11/05/05]

Reporting of Waste and By-Product Generation

for the period from 01 January 2014 to 31 December 2014

Parameter (tonnes)	Tonnes sent for off-site disposal as special waste	Tonnes sent for off-site disposal as controlled waste	Tonnes sent for off-site recovery or recycling
Ferrous scrap metal			13,408.56
Non-ferrous scrap metal			6.84
Steel making slag			101,393
Melting Shop filter dust			13,533.87
Other filter dusts including shot-blasting dusts			
General waste		46.95	99.08
Waste oils	4.90		20.44
Waste PPE 15.02.02 *			
Waste solvents			
Metallic scale/iron oxide			2,422.31
Refractory waste			
Sludge from waste water treatment			
Aqueous waste			
Other wastes: Paper/Card			4.13
Wood			77.48

Signed: Sk Jones
(authorised to sign as representative of the Operator)

Date: 29 January 2015.

Facility: Tremorfa Melt Shop

Form Number:

Sewer 1 / 20/09/13

Reporting of emissions to air for the period fromJanuary 2014... to ...December 2014.....

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
S1 (when being discharged) ^[5]	Oil / grease	5 mg/l	Spot sample	0.6	Material soluble in 1,1,2-trichloro-trifluoroethane	04 December 2014	
	Suspended Solids	No limit set		1	The solids shall be separated and dried at 105°C	04 December 2014	
	pH	6-10		7.8	BS 6068-2.50:1995, ISO 10523:1994	04 December 2014	
	Lead	0.2 mg/l		0.0060	BS 6068-2.60:1988, BS EN ISO 11885 1998	04 December 2014	
	Nickel	0.5 mg/l		0.003	BS 6068-2.60:1988, BS EN ISO 11885 1998	04 December 2014	
	Arsenic	0.01 mg/l		0.001	BS 6068-2.60:1988, BS EN ISO 11885 1998	04 December 2014	
	Cadmium	0.05 mg/l		0.0006	BS 6068-2.60:1988, BS EN ISO 11885 1998	04 December 2014	
	Chromium	0.2 mg/l		0.002	BS 6068-2.60:1988, BS EN ISO 11885 1998	04 December 2014	
	Copper	0.5 mg/l		0.03	BS 6068-2.60:1988, BS EN ISO 11885 1998	04 December 2014	
	Zinc	0.5 mg/l		0.173	BS 6068-2.60:1988, BS EN ISO 11885 1998	04 December 2014	
	Mercury	0.02 mg/l		0.0001	BS 6068-2.74:2002, BS EN ISO 13506 2002	04 December 2014	
	Iron Compounds	5 mg/l		0.23	BS 6068-2.60:1988, BS EN ISO 11885 1998	04 December 2014	
	Flow	No Limit Set	Daily total flow		Flow Meter		

Permit Number: EPR/TP3639BH

Operator: CELSA Manufacturing (UK) Limited

S2	Oil / grease	5 mg/l	There has not been sufficient flow from the scrap bay to enable the collection of a sample for analysis. The scrap bay is covered to prevent rainwater regression into the scrap bay and therefore minimal rainwater is able to enter the scrap bay drainage system if any (which is likely to evaporate before discharging to drain)		Material soluble in 1,1,2-trichloro-trifluoroethane		
	Suspended Solids	200 mg/l			The solids shall be separated and dried at 105 °C		
	pH	6-10			BS 6068-2.50:1995, ISO 10523:1994		
	Lead	0.2 mg/l			BS 6068-2.60:1988, BS EN ISO 11885 1998		
	Nickel	0.5 mg/l			BS 6068-2.60:1988, BS EN ISO 11885 1998		
	Arsenic	0.01 mg/l			BS 6068-2.60:1988, BS EN ISO 11885 1998		
	Cadmium	0.05 mg/l			BS 6068-2.60:1988, BS EN ISO 11885 1998		
	Chromium	0.2 mg/l			BS 6068-2.60:1988, BS EN ISO 11885 1998		
	Copper	0.5 mg/l			BS 6068-2.60:1988, BS EN ISO 11885 1998		
	Zinc	0.5 mg/l			BS 6068-2.60:1988, 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 6068-2.60:1988, BS EN ISO 11885 1998		

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

[5] A record of the hourly flow at the time the sample of S1 is taken shall be maintained in the Plant records.

Signed St Jones
(Authorised to sign as representative of Operator)

Date...29 January 2015.