

Permit Reference Number: BS3905
Operator: Tata Steel UK
Installation: Llanwern Steel Works

Form Number: A1/4
Date of Form: 01/09/09

Release for year ending: 2017

Reporting Form A1/4		
Parameter	Limit value (kg)	Annual release
Oxides of nitrogen annual mass emissions (as NO ₂)	None	30.53 tonnes
Carbon Monoxide annual mass emissions	None	7.17 tonnes
Particulate annual mass emissions [*2]	None	0.55 tonnes
Hydrogen Chloride annual mass emissions [*1]	None	0.86 tonnes
Oil mist annual mass emissions	None	Unquantified. Ref to Imp item Submission 9.9

[*1] HCl values based on actual concentrations and measured flowrates in conjunction with operating hours per annum. Chromate 2014 figures used for calculation.

[*2] Particulate emissions as above, but includes also an estimation for NG, using an assumed 1 mg/Nm³ concentration factor applied to the Natural Gas usage volume @ 3% O₂


Signed **Michael Launder** **Date**26/01/2018..(amended 23/04/2018).....
(authorised to sign as representative of the Operator)

Permit Reference Number: BS3905

Operator: Tata Steel UK

Installation: Llanwern Steel Works

Form Number: EW1

Date of Form: 01/09/09

Energy and Water Consumption

Consumption for Calendar Year ending: 2017

Reporting Form EW1	
Parameter	Quantity
Delivered Electricity MWh	227,902
Primary electricity (delivered x2.4) Mwh	546,965
Primary carbon dioxide (primary electricity x 0.166) te	90,796
Delivered gas MWh	220, 136 (792 TJ)
Process water used m ³	2,574,517

Signed



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Date26/01/2018..(amended 23/04/2018).....

Permit Reference Number: BS3905
 Operator: Tata Steel UK
 Installation: Llanwern Steel Works

Form Number: R1
 Date of Form: 01/09/09

Reporting of Waste Disposal and Recovery for the year: 2017

Waste Description	Waste	Route	Disposal (tonnes)	Recovery (tonnes)
1) Hazardous Waste				
Named hazardous waste	(1) Drums Contam PPE + Spill-Sorb	(1) Off Site Recovery		28.92
	(2) Oil	(2) Off Site Recovery		356
	(3) Chromate Waste	(3) Off Site Disposal	207.84	
	(4) WEEE	(4) Off Site Recovery		3.5
	(8) Tank & Seperator Sludge	(8) Off Site Disposal	16.8	
	(9) Degreasing Waste	(9) Off Site Recovery		0
	(10) Fluoro Tubes	(10) Off Site Recovery		0
	(11) Contaminated Hoses	(12) Off Site Recovery		0
Other hazardous wastes	---	---	---	---
Total hazardous waste			224.64	388.5


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2) Non-Hazardous Wastes				
Named non-Haz waste	(1) Bricks & Rubble	(1) Off Site Recovery		0
	(2) Pickle Line ETP Cake	(2) PT Landfill	291.97	
	(3) Wood	(3) Recycling		106.6
	(4) Scrap Metal	(4) PT BOS / 3rd Party		56,207
	(5) General Waste	(5) Off Site Landfill/ Recovery	432.7	
	(7) Hot Mill Scale & Cake	(7) Off Site Treatment		0
	(8) Paper & Cardboard	(8) Recycling		59.14
	(9) Plastic	(9) Off Site Recovery		0
	(10) Tins & Cans	(10) Off Site Recovery		0
	(11) Zinc Dross	(11) Off Site Recovery		953.36
	(12) Mixed Recycling	(12) Off Site Recovery		30.03
	(13) Cables	(12) Off Site Recovery		5.68
	(14) Corex	(14) Recycling		29.12
	(15) Welding Waste	(15) Off Site Disposal	23.54	
	(17) Scrap	(17) Recycling		0
Other non-haz waste	---	---	---	---
Total non-haz waste			748.21	57,390.93
TOTAL WASTE			972.85	57,779.43
Operator's comments: All waste data compiled from: Waste Management Contractors, and Accounting function(s)				

Signed 

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Permit Reference Number: BS3905

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Form Number: PI1 - Environmental Performance Indicators

Date of Form: 01/09/09

Reporting of Performance Indicators for the year: 2017

Process Area	Performance Indicator				
	Water supplied per tonne of rolled steel, litres	Oil used per tonne of rolled steel, litres	Substances released into the air per tonne of rolled steel, kg		Waste disposal per tonne of rolled steel (excluding material sent for recovery), kg
			NOx (as NO2)	CO2	
Hot Mill	2,297	-*	-*	*-	0.87
Cold Mill		0.22			
Zodiac		0.32	0.044	64.4	

* Non Operational.

Operator's comments:

- Only 'total' water usage KPI values available
- Total water = 2,538,800 m³ (Process) + 22,879 m³ (Domestic) = 2,561,679m³
- Galv tonnage 453,462t, HRP tonnage 0t, CRP tonnage 661,763t
- Oil usage data: HRP 0 litres, CRP 142,493 litres , Zodiac 147,150 litres

Signed



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