

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: 2016

Reporting Form A1/4		
Parameter	Limit value (kg)	Annual release
Oxides of nitrogen annual mass emissions (as NO ₂)	None	33.76 tonnes
Carbon Monoxide annual mass emissions	None	7.67 tonnes
Particulate annual mass emissions [*2]	None	0.69 tonnes
Hydrogen Chloride annual mass emissions [*1]	None	0.48 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  **Jason Heatman**
(authorised to sign as representative of the Operator)

Date27/01/2017.....

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: 2016

Reporting Form EW1	
Parameter	Quantity
Delivered Electricity MWh	154,702
Primary electricity (delivered x2.4) Mwh	371,284
Primary carbon dioxide (primary electricity x 0.166) te	61,633
Delivered gas MWh	232,806 (838.0 TJ)
Process water used m3	2,305,006

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Date27/01/2017.....

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: 2016

Waste Description	Waste	Route	Disposal (tonnes)	Recovery (tonnes)
1) Hazardous Waste				
Named hazardous waste	(1) Drums Contam PPE	(1) Off Site Recovery		32.32
	(2) Oil	(2) Off Site Recovery		78.4
	(3) Chr omate Waste	(3) Off Site Disposal	26.1	
	(4) WEEE	(4) Off Site Recovery		8.46
	(8) Tank & Seperator Sludge	(8) Off Site Disposal	44.8	
	(9) Degreasing Waste	(9) Off Site Recovery		11.64
	(10) Fluoro Tubes	(10) Of f Site Recovery		1
	(11) Spill -sorb	(11) Off Site Recovery		0
	(12) Contaminated Hoses	(12) Off Site Recovery		0
Other hazardous wastes	---	---	---	---
Total hazardous waste			70.9	130.82
2) Non-Hazardous Wastes				

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Named non-Haz waste	(1) Bricks & Rubble	(1) Off Site Recovery		14.08
	(2) Pickle Line ETP Cake	(2) PT Landfill	187.51	
	(3) Wood	(3) Recycling		73.62
	(4) Scrap Metal	(4) PT BOS / 3rd Party		52588.06
	(5) General Waste	(5) Off Site Landfill/ Recovery	268.33	
	(7) Hot Mill Scale & Cake	(7) Off Site Treatment		0
	(8) Paper & Cardboard	(8) Recycling		27.04
	(9) Plastic	(9) Off Site Recovery		13.14
	(10) Tins & Cans	(10) Off Site Recovery		0
	(11) Zinc Dross	(11) Off Site Recovery		906.56
	(12) Mixed Recycling	(12) Off Site Recovery		26.25
	(13) Cables	(12) Off Site Recovery		0
	(14) Corex	(14) Recycling		23.48
	(15) Welding Waste	(15) Off Site Disposal	12.05	
	(17) Scrap	(17) Recycling		0
Other non-haz waste	---	---	---	---
Total non-haz waste			455.84	53,672.23
TOTAL WASTE				54128.07
Operator's comments: All waste data compiled from: Waste Management Contractors, and Accounting function(s)				

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Date27/01/2017.....

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Form Number: PI1 - Environmental Performance Indicators

Date of Form: 01/09/09

Reporting of Performance Indicators for the year: 2016

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	2,352	0	0	0	0.46
Cold Mill		0.29			
Zodiac		0.53	0.044	65.0	

Operator's comments:

- Only 'total' water usage KPI values available
- Total water = 2,273,916 m³ (Process) + 31,090 m³ (Domestic) = 2,305,006m³
- Galv tonnage 472,387t, HRP tonnage 0t, CRP tonnage 507,418t
- Oil usage data: HRP 0 litres, CRP 148,733 litres , Zodiac 250,230 litres

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