

Permit Reference Number: BS3905

Operator: Tata Steel UK

Installation: Llanwern Steel Works

Form Number: A1/1

Date of Form: 01/09/09

Reporting of Emissions to Air for the period from 01/04/15 to 30/06/15							
Emission Point	Substance / Parameter	Emission Limit Value	Result (mg/Nm3)	Test Method	Sample Date and Times	Accreditation / Certification	Uncertainty (+/- mg/Nm3)
A1 SRF No1	NOx (as NO2)	400 mg/m3	242.8	Electrochemical Cell - BSEN15058 & BSEN14792	25/06/2015 13:02 - 13:17	Level 2 Mcerts	8.2
	CO	None	0.0				1.1
A2 SRF No2	NOx (as NO2)	400 mg/m3	273.7		25/06/15 13:20 - 13:35		11.5
	CO	None	0.0				1.8
A3 SRF No3	NOx (as NO2)	400 mg/m3	---		---		---
	CO	None	---				---
A4 SRF No4	NOx (as NO2)	400 mg/m3	---		---		---
	CO	None	---				---
A5 SRF No5	NOx (as NO2)	400 mg/m3	295.9		25/06/15 13:37 - 13:52		10.9
	CO	None	0.5				1.5
None	Gas oil sulphur	0.2 w/w	---	---	---	---	---

Signed 

(authorised to sign as representative of the Operator)

Date28/07/2015.....

Permit Reference Number: BS3905

Operator: Tata Steel UK

Installation: Llanwern Steel Works

Form Number: A1/2

Date of Form: 01/09/09

Reporting of Emissions to Air for the period from 01/04/15 to 30/06/15							
Emission Point	Substance / Parameter		Emission Limit Value	Result (mg/Nm3)	Test Method	Sample Date and Times	Uncertainty (+/- mg/Nm3)
A11 Zodiac Furnace [*1]	NOx (as NO2)		350 mg/m3	8.8	Electrochemical Cell - BSEN15058 & BSEN14792	24/06/15 14:15 - 14:30	1.9
	CO		None	31.5		---	2.2
A14 Boiler No1 [*2]	Gas Oil	NOx (as NO2)	200 mg/m3	---		---	---
		CO	None	---		---	---
	Natural Gas	NOx (as NO2)	140 mg/m3	113.8		06/07/15 10:48 - 11:02	3.9
		CO	None	0.3		---	1.1
A15 Boiler No2 [*2]	Gas Oil	NOx (as NO2)	200 mg/m3	---		---	---
		CO	None	---		---	---
	Natural Gas	NOx (as NO2)	140 mg/m3	124.3		06/07/15 11:05 - 11:20	4.3
		CO	None	0.7		---	1.1
A16 Boiler No3	Gas Oil	NOx (as NO2)	200 mg/m3	---		---	---
		CO	None	---		---	---
	Natural Gas	NOx (as NO2)	140 mg/m3	---		---	---
		CO	None	---		---	---

[1] Results infer non-standard operations during sample exercise. Intention is to carry out additional sampling in Q3 in order to achieve more representative results

[2] As discussed in site inspection - the plant was unavailable to sample during latter part of the quarter, and so sampling conducted at first possible opportunity thereafter

Signed 

(authorised to sign as representative of the Operator)

Date28/07/2015.....

Permit Reference Number: BS3905

Operator: Tata Steel UK

Installation: Llanwern Steel Works

Form Number: A1/3

Date of Form: 01/09/09

Reporting of Emissions to Air for the period from 01/04/15 to 30/06/15 [plus annual info]							
Emission Point	Substance / Parameter	Emission Limit Value	Result (mg/Nm3)	Test Method	Sample Date and Times	Accreditation / Certification	Uncertainty (+/- mg/Nm3)
A6 Pickle Line No1	HCl	10 mg/m3	0.3	BS EN 1911	25/06/15 10:45 - 12:05	Level 2 Mcerts	0.4
A7 Pickle Line No2	HCl	10 mg/m3	4.3		24/06/15 11:25 - 11:55		1.7
A8 Pickle Line Roof Vent	HCl	5 mg/m3	---				
A9 Cold Mill Oil Mist Vent	Oil mist	15 mg/m3	---				
A10 Zodiac Cleaner	Particulate matter	5 mg/m3	2.3	BS EN 13284	25/03/15 10:37 - 12:27	Level 2 Mcerts	1.8
A12 Zodiac Chromate	Particulate matter	5 mg/m3	---		---		---
A13 Welder Stack	Particulate matter	5 mg/m3	1.5		08/06/15 11:14 - 13:27		0.9
A17 Pickle Line Scalemaster	Particulate matter	5 mg/m3	1.0		17/03/15 10:56 - 12:44		0.8

Signed 

(authorised to sign as representative of the Operator)

Date28/07/2015.....

Permit Reference Number: BS3905

Operator: Tata Steel UK

Installation: Llanwern Steel Works

Form Number: W1

Date of Form: 01/09/09

Reporting of Emissions to Water for the period from 01/04/15 to 30/06/15			
Parameter	Limit	Daily Max	Daily Mean
Flow Rate	28000 m3/day (dry weather)	---	2,228.8
pH min	6	7.0	8.7
pH max	12	10.8	
Total Hydrocarbon Oil	5 mg/l	3.9	0.3
Suspended solids	100 mg/l	70	25.4
Dissolved iron	10 mg/l	0.01	0.01
Total chromium	0.2 mg/l	0.01	0.01
Dissolved nickel	0.2 mg/l	0.01	0.01
Zinc	2 mg/l	0.01	0.01
Copper	0.1 mg/l	0.02	0.01
Lead	0.8 mg/l	0.03	0.01
Cadmium	0.05 mg/l	0.01	0.01
Mercury	0.05 mg/l	0.0001	0.0001
Ammoniacal Nitrogen	None	0.23	0.05

Signed 

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Date28/07/2015.....