

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 01/07/2017 to 30/09/2017							
Emission Point	Substance / Parameter	Emission Limit Value	Result (mg/Nm ³)	Test Method	Sample Date and Times	Accreditation / Certification	Uncertainty (+/- mg/Nm ³)
A1* SRF No1	NOx (as NO2)	400 mg/m ³	*		*		*
	CO	None	*				*
A2* SRF No2	NOx (as NO2)	400 mg/m ³	*		*		*
	CO	None	*				*
A3* SRF No3	NOx (as NO2)	400 mg/m ³	*		*		*
	CO	None	*				*
A4* SRF No4	NOx (as NO2)	400 mg/m ³	*		*		*
	CO	None	*				*
A5* SRF No5	NOx (as NO2)	400 mg/m ³	*		*		*
	CO	None	*				*
None	Gas oil sulphur	0.2 w/w	*		*		*

* Emission points not in use during mothball

Signed  **Jason Heatman**
 (authorised to sign as representative of the Operator)

Date23/10/2017.....

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 01/07/2017 to 30/09/2017							
Emission Point	Substance / Parameter		Emission Limit Value	Result (mg/Nm ³)	Test Method	Sample Date and Times	Uncertainty (+/- mg/Nm ³)
A11 Zodiac Furnace	NOx (as NO ₂)		350 mg/m ³	110.1	Electrochemical Cell -ISO15058 BS14789 BS14792	18/07/17 13:17-13:32	6.0
	CO		None	0.0			2.4
A14 Boiler No1	Gas Oil	NOx (as NO ₂)	200 mg/m ³	---		---	---
		CO	None	---			---
	Natural Gas	NOx (as NO ₂)	140 mg/m ³	**		**	**
		CO	None	**			**
A15 Boiler No2	Gas Oil	NOx (as NO ₂)	200 mg/m ³	---		---	---
		CO	None	---		---	---
	Natural Gas	NOx (as NO ₂)	140 mg/m ³	120.9		18/07/17 12:38-12:53	4.2
		CO	None	0.0			0.9
A16 Boiler No3	Gas Oil	NOx (as NO ₂)	200 mg/m ³	---		---	---
		CO	None	---		---	---
	Natural Gas	NOx (as NO ₂)	140 mg/m ³	**		**	**
		CO	None	**			**

(**) Non-operational during sampling

Signed  **Jason Heatman**
 (authorised to sign as representative of the Operator)

Date23/10/2017.....

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 01/07/2017 to 30/09/2017 [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	*	BS EN 1911	---	Level 2 Mcerts	---
A7 Pickle Line No2	HCl	10 mg/m3	3.5		06/09/2017 11:05-12:30		0.3
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	---	BS EN 13284	---	Level 2 Mcerts	---
A12 Zodiac Chromate	Particulate matter	5 mg/m3	***		--		--
A13 Welder Stack	Particulate matter	5 mg/m3	--		--		--
A17 Pickle Line Scalemaster	Particulate matter	5 mg/m3	R		--		--

*Non operational

***Taken permanently off-line

R – annual sample previously reported

Signed  **Jason Heatman**
(authorised to sign as representative of the Operator)

Date23/10/2017.....

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 01/07/2017 to 30/09/2017			
Parameter	Limit	Daily Max	Daily Mean
Flow Rate	28000 m ³ /day (dry weather)	---	9,987****
pH min	6	7.6	9.8
pH max	12	11.4	
Total Hydrocarbon Oil*	5 mg/l	4.8	1.29
Suspended solids**	100 mg/l	98	33.9
Dissolved iron	10 mg/l	2.21	0.33
Total chromium	0.2 mg/l	0.03	0.014
Dissolved nickel	0.2 mg/l	0.039	0.014
Zinc	2 mg/l	0.357	0.094
Copper	0.1 mg/l	0.058	0.012
Lead	0.8 mg/l	0.111	0.032
Cadmium	0.05 mg/l	0.048	0.012
Mercury	0.05 mg/l	0.0001	0.0001
Ammoniacal Nitrogen	None	1.0	0.23

****Includes wet flow conditions

Signed  **Jason Heatman**
(authorised to sign as representative of the Operator)

Date23/10/2017.....