

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 01/04/2017 to 30/06/2017							
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	*		---		---
	CO	None	*		---		---
A2* SRF No2	NOx (as NO2)	400 mg/m3	*		---		---
	CO	None	*		---		---
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	*		---		---
	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)

Date24/07/2017.....

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 01/04/2017 to 30/06/2017								
Emission Point	Substance / Parameter		Emission Limit Value	Result (mg/Nm3)	Test Method	Sample Date and Times	Accreditation / Certification	Uncertainty (+/- mg/Nm3)
A11 Zodiac Furnace	NOx (as NO2)		350 mg/m3	113.3	Electrochemical Cell -ISO15058 BS14789 BS14792	06/06/17 11:49-12:04	Level 2 Mcerts	6.6
	CO		None	58.2		4.1		
A14 Boiler No1	Gas Oil	NOx (as NO2)	200 mg/m3	---		---		---
		CO	None	---				---
	Natural Gas	NOx (as NO2)	140 mg/m3	116.8		06/06/17 10:58-11:13		4.1
		CO	None	0.0				1.2
		A15 Boiler No2	Gas Oil	NOx (as NO2)				200 mg/m3
CO	None			---		---		
Natural Gas	NOx (as NO2)		140 mg/m3	(i)		(i)		(i)
	CO		None	(i)				(i)
A16 Boiler No3	Gas Oil	NOx (as NO2)	200 mg/m3	---		---		---
		CO	None	---				---
	Natural Gas	NOx (as NO2)	140 mg/m3	99.9		06/06/17 10:20-10:35		3.6
		CO	None	0.6				1.2

(i) Non-operational during sampling

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

Date24/07/2017.....

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 01/04/2017 to 30/06/2017 [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	0.1		22/06/2017 10:55-12:05		0.2
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	3.4		04/04/17 11:00-12:50		1.5

*Non operational

R – annual sample previously reported

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

Date24/07/2017.....

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 01/04/2017 to 30/06/2017			
Parameter	Limit	Daily Max	Daily Mean
Flow Rate	28000 m ³ /day (dry weather)	---	8,057*
pH min	6	8.3	10.6
pH max	12	12.0	
Total Hydrocarbon Oil*	5 mg/l	3.1	0.72
Suspended solids**	100 mg/l	96.0	33.33
Dissolved iron	10 mg/l	2.44	0.25
Total chromium	0.2 mg/l	0.02	0.01
Dissolved nickel	0.2 mg/l	0.057	0.021
Zinc	2 mg/l	0.57	0.114
Copper	0.1 mg/l	0.032	0.012
Lead	0.8 mg/l	0.062	0.028
Cadmium	0.05 mg/l	0.014	0.0059
Mercury	0.05 mg/l	0.0001	0.0001
Ammoniacal Nitrogen	None	1.4	0.37

*Includes wet flow conditions

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

Date24/07/2017.....