

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 01/10/2017 to 31/12/2017							
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	*		*		*

* Non-operational - Emission points not in use during mothball

Signed  **Michael Launder**
 (authorised to sign as representative of the Operator)

Date25/01/2018.....

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 01/10/2017 to 31/12/2017							
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	105.0	Electrochemical Cell - ISO15058 BS14789 BS14792	24/10/17 11:16 - 11:31	6.3
	CO		None	152.6			8.9
A11***** Zodiac Furnace	NOx (as NO ₂)		350 mg/m ³	143.8		19/12/17 11:16 - 11:31	7.3
	CO		None	37.6			2.9
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	115.7		24/10/17 11:55 - 12:10	4.0
		CO	None	1.1			1.1
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	106.0		24/10/17 12:20 - 12:35	3.8
		CO	None	1.4			1.2

(*****) 2nd quarterly sample at request from NRW following furnace upgrade

(**) Non-operational during sampling

Signed  Michael Launder
 (authorised to sign as representative of the Operator)

Date25/01/2018.....

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 01/10/2017 to 31/12/2017 [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	7.2		15/11/2017 10:50 - 11:58		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	2.0	BS EN 13284	10/10/2017 11:19 - 13:09	Level 2 Mcerts	1.0
A12 Zodiac Chromate	Particulate matter	5 mg/m³	***		***		***
A13 Welder Stack	Particulate matter	5 mg/m³	2.2		17/10/2017 10:27 - 12:35		2.4
A17 Pickle Line Scalemaster	Particulate matter	5 mg/m³	R		R		R

*Non operational

***Taken permanently off-line

R – Annual sample previously reported

Signed  **Michael Launder**
 (authorised to sign as representative of the Operator)

Date25/01/2018.....

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 01/10/2017 to 31/12/2017			
Parameter	Limit	Daily Max	Daily Mean
Flow Rate	28000 m ³ /day (dry weather)	---	2,920****
pH min	6	8.6	10.3
pH max	12	12	
Total Hydrocarbon Oil*	5 mg/l	4.5	1.2
Suspended solids**	100 mg/l	94	34.2
Dissolved iron	10 mg/l	0.138	0.15
Total chromium	0.2 mg/l	0.045	0.016
Dissolved nickel	0.2 mg/l	0.051	0.021
Zinc	2 mg/l	0.28	0.078
Copper	0.1 mg/l	0.053	0.015
Lead	0.8 mg/l	0.138	0.043
Cadmium	0.05 mg/l	0.061	0.012
Mercury	0.05 mg/l	<0.001	<0.001
Ammoniacal Nitrogen	None	0.5	0.15

****Includes wet flow conditions

Signed  **Michael Launder**
(authorised to sign as representative of the Operator)

Date25/01/2018.....