

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 01/10/2016 to 31/12/2016							
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	---	Electrochemical Cell - BSEN15058 & BSEN14792	---	Level 2 Mcerts	---
	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)

Date27/01/2017.....

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 01/10/2016 to 31/12/2016							
Emission Point	Substance / Parameter		Emission Limit Value	Result (mg/Nm3)	Test Method	Sample Date and Times	Uncertainty (+/- mg/Nm3)
A11 Zodiac Furnace	NOx (as NO2)		350 mg/m3	114	Electrochemical Cell - BSEN15058 & BSEN14792	06/12/16 11:59-12:15	5.8
	CO		None	38.2		---	8.6
A14 Boiler No1	Gas Oil	NOx (as NO2)	200 mg/m3	---		---	---
		CO	None	---		---	---
	Natural Gas	NOx (as NO2)	140 mg/m3	113.7		12/12/2016 12:44-12:59	4.0
		CO	None	0.0		---	1.1
A15 Boiler No2	Gas Oil	NOx (as NO2)	200 mg/m3	---		---	---
		CO	None	---		---	---
	Natural Gas	NOx (as NO2)	140 mg/m3	116.6		12/12/2016 12:02-12:17	4.1
		CO	None	0.0		---	0.9
A16 Boiler No3	Gas Oil	NOx (as NO2)	200 mg/m3	---		---	---
		CO	None	---		---	---
	Natural Gas	NOx (as NO2)	140 mg/m3	129.3		12/12/2016 12:25-12:40	4.5
		CO	None	0.0		---	0.9

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: A1/3

Date of Form: 01/09/09

Reporting of Emissions to Air for the period from 01/10/2016 to 31/12/2016 [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		27/10/2016 10:41-11:48		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	R ---	Level 2 Mcerts	---
A12 Zodiac Chromate	Particulate matter	5 mg/m3	1.1		19/10/2016 10:06 – 11:53		1.5
A13 Welder Stack	Particulate matter	5 mg/m3	2.4		13/10/16 11:03 – 12:08		0.8
A17 Pickle Line Scalemaster	Particulate matter	5 mg/m3	---		R ---		---

*Non operational

R – annual sample previously reported

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: W1

Date of Form: 01/09/09

Reporting of Emissions to Water for the period from 01/10/2016 to 31/12/2016			
Parameter	Limit	Daily Max	Daily Mean
Flow Rate	28000 m3/day (dry weather)	---	17,957
pH min	6	7.7	10.3
pH max	12	11.9	
Total Hydrocarbon Oil*	5 mg/l	63.3*	2.02
Suspended solids**	100 mg/l	262**	43.7
Dissolved iron	10 mg/l	1.4	0.04
Total chromium	0.2 mg/l	0.051	0.017
Dissolved nickel	0.2 mg/l	0.1	0.029
Zinc	2 mg/l	0.2	0.053
Copper	0.1 mg/l	0.05	0.016
Lead	0.8 mg/l	0.06	0.022
Cadmium	0.05 mg/l	0.02	0.011
Mercury	0.05 mg/l	-	-
Ammoniacal Nitrogen	None	1.4	0.65

* See notification 2016 12 29 URA Oil

** Under derogation

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

Date27/01/2017.....