

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 01/01/2018 to 31/03/2018							
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  **Michael Launder**
 (authorised to sign as representative of the Operator)

Date24/04/2018.....

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 01/01/2018 to 31/03/2018							
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	104.7	Electrochemical Cell - BSEN15058 & BSEN14792	10:39 – 10:55 16/01/2018	6.0
	CO		None	65.0			4.2
A14 Boiler No1	Gas Oil	NOx (as NO2)	200 mg/m3	---		---	---
		CO	None	---			---
	Natural Gas	NOx (as NO2)	140 mg/m3	98.3		11:11 – 11:27 16/01/2018	3.5
		CO	None	0.7			1.2
A15 Boiler No2	Gas Oil	NOx (as NO2)	200 mg/m3	---		---	---
		CO	None	---			---
	Natural Gas	NOx (as NO2)	140 mg/m3	117.0		11:07 – 11:09 16/01/2018	4.1
		CO	None	0.0			1.2
A16 Boiler No3	Gas Oil	NOx (as NO2)	200 mg/m3	---		---	---
		CO	None	---			---
	Natural Gas	NOx (as NO2)	140 mg/m3	---		---	---
		CO	None	---			---

(i) Non-operational during sampling

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

Date24/04/2018.....

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 01/01/2018 to 31/03/2018							
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	14.9		11:30 – 12:35 28/03/2018		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	1.8		10:45 – 12:26 23/01/2018		0.4

*Non operational
R – annual sample previously reported

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

Date24/04/2018.....

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 01/01/2018 to 31/03/2018			
Parameter	Limit	Daily Max	Daily Mean
Flow Rate	28000 m ³ /day (dry weather)	22,980	20,691*
pH min	6	6.7	10.3
pH max	12	12.0	
Total Hydrocarbon Oil*	5 mg/l	3.4	0.63
Suspended solids**	100 mg/l	86.0	34.0
Dissolved iron	10 mg/l	0.4	0.07
Total chromium	0.2 mg/l	0.1	0.034
Dissolved nickel	0.2 mg/l	0.1	0.028
Zinc	2 mg/l	0.6	0.069
Copper	0.1 mg/l	0.112	0.044
Lead	0.8 mg/l	0.6	0.084
Cadmium	0.05 mg/l	0.072	0.029
Mercury	0.05 mg/l	< 0.0001	< 0.0001
Ammoniacal Nitrogen	None	0.378	0.07

*Includes wet flow conditions

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

Date24/04/2018.....