

Permit Reference: BS 3905IP
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 01/01/2019 to 31/03/2019							
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 of Hot Mill

Signed: 
 (authorised to sign as a representative of the operator)

Date: 29/04/2019

Permit Reference: BS 3905IP
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 01/01/2019 to 31/03/2019								
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	126.2	Electrochemical Cell - BSEN15058 & BSEN14792	10/03/2019 14:12 - 14:29	Level 2 Mcerts	6.9
	CO		None	28.7				2.9
A14 Boiler No1	Gas Oil	NOx (as NO2)	200 mg/m3	---		---		---
		CO	None	---				---
	Natural Gas	NOx (as NO2)	140 mg/m3	121.7		07/03/2019 11:36 - 11:32		4.1
		CO	None	0				1.2
A15 Boiler No2	Gas Oil	NOx (as NO2)	200 mg/m3	---		---		---
		CO	None	---				---
	Natural Gas	NOx (as NO2)	140 mg/m3	115.1		07/03/2019 11:06 - 11:21		3.9
		CO	None	0				1.1
A16 Boiler No3	Gas Oil	NOx (as NO2)	200 mg/m3	---		---		---
		CO	None	---				---
	Natural Gas	NOx (as NO2)	140 mg/m3	---		---		---
		CO	None	---				---

* - Boiler 3 offline during sampling

Signed: 
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Date: 29/04/2019

Permit Reference: BS 3905IP
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 01/01/2019 to 31/03/2019							
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	2.9		19/03/2019 12:15 - 13:21		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	---		---		---

*Non operational

*Annual sample result - not sampled during Q1

Signed: 
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Date: 29/04/2019

Permit Reference: BS3905IP
Operator: Tata Steel UK
Installation: Llanwern Steelworks

Form number: W1

Date of form: 01/09/09

Reporting of Emissions to Water for the period from 01/01/2019 to 31/03/2019			
Parameter	Limit	Daily Max *	Daily Mean *
Flow Rate	28000 m ³ /day (dry weather)	24,109	20,229
pH min	6	6.4	9.7
pH max	12	11.4	
Total Hydrocarbon Oil*	5 mg/l	4.3	0.8
Suspended solids**	100 mg/l	98	39.1
Dissolved iron	10 mg/l	1.2	0.3
Total chromium	0.2 mg/l	0.032	0.008
Dissolved nickel	0.2 mg/l	0.133	0.014
Zinc	2 mg/l	0.641	0.09
Copper	0.1 mg/l	0.001	0.001
Lead	0.8 mg/l	0.022	0.004
Cadmium	0.05 mg/l	0.002	0.001
Mercury	0.05 mg/l	0.005	0.005
Ammoniacal Nitrogen	None	2	0.5

* Includes wet flow conditions

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Date: 29/04/2019