

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 01/07/2018 to 30/09/2018							
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 of Hot Mill

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

Date: 26/10/2018

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 01/07/2018 to 30/09/2018								
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	69.7	Electrochemical Cell - BSEN15058 & BSEN14792	06/07/2018 11:41 - 11:56	Level 2 Mcerts	4.2
	CO		None	136.2				7.3
A14 Boiler No1	Gas Oil	NOx (as NO2)	200 mg/m3	---		---		---
		CO	None	---				---
	Natural Gas	NOx (as NO2)	140 mg/m3	---		---		---
		CO	None	---				---
A15 Boiler No2	Gas Oil	NOx (as NO2)	200 mg/m3	---		---		---
		CO	None	---				---
	Natural Gas	NOx (as NO2)	140 mg/m3	103.9		06/07/2018 10:53 - 11:10		3.6
		CO	None	2.6				1.4
A16 Boiler No3	Gas Oil	NOx (as NO2)	200 mg/m3	---		---		---
		CO	None	---				---
	Natural Gas	NOx (as NO2)	140 mg/m3	103.6		06/07/2018 10:31 - 10:46		3.5
		CO	None	0				1.1

* - Boiler 1 offline during sampling

Signed: 
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Date: 26/10/2018

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 01/07/2018 to 30/09/2018							
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	1.7		30/08/2018 11:21 - 12:27		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	---		---		---

*Non operational

*Annual sample result reported during Q1

Signed: 
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Date: 26/10/2018

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 01/07/2018 to 30/09/2018			
Parameter	Limit	Daily Max *	Daily Mean *
Flow Rate	28000 m ³ /day (dry weather)	10,721	8,779
pH min	6	6.1	9.1
pH max	12	11.4	
Total Hydrocarbon Oil*	5 mg/l	7.4	1.21
Suspended solids**	100 mg/l	156	25.125
Dissolved iron	10 mg/l	0.834	0.178
Total chromium	0.2 mg/l	0.064	0.026
Dissolved nickel	0.2 mg/l	0.037	0.012
Zinc	2 mg/l	0.32	0.087
Copper	0.1 mg/l	0.07	0.021
Lead	0.8 mg/l	0.11	0.045
Cadmium	0.05 mg/l	0.039	0.018
Mercury	0.05 mg/l	0.000170	0.000085
Ammoniacal Nitrogen	None	0.2	0.122

* Includes wet flow conditions

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Date: 26/10/2018