

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 01/10/2018 to 31/12/2018							
Emission Point	Substance / Parameter	Emission Limit Value	Result (mg/Nm3)	Test Method	Sample Date and Times	Accreditation / Certification	Uncertainty (+/- mg/Nm3)
A1*	NOx (as NO2)	400 mg/m3	---	Electrochemical Cell - BSEN15058 & BSEN14792	---	Level 2 Mcerts	---
SRF No1	CO	None	---				---
A2*	NOx (as NO2)	400 mg/m3	---		---		---
SRF No2	CO	None	---				---
A3*	NOx (as NO2)	400 mg/m3	---		---		---
SRF No3	CO	None	---				---
A4*	NOx (as NO2)	400 mg/m3	---		---		---
SRF No4	CO	None	---				---
A5*	NOx (as NO2)	400 mg/m3	---		---		---
SRF No5	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: 28/01/2019

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 01/10/2018 to 31/12/2018								
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	106.8	Electrochemical Cell - BSEN15058 & BSEN14792	21/11/2018 13:42 - 13:55	Level 2 Mcerts	10.9
	CO		None	41.6				6.2
A14 Boiler No1	Gas Oil	NOx (as NO2)	200 mg/m3	---		---		---
		CO	None	---				---
	Natural Gas	NOx (as NO2)	140 mg/m3	124.1		21/11/2018 13:04 - 13:19		4.2
		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	117		21/11/2018 12:43 - 12:57		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

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Date: 28/01/2019

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 01/10/2018 to 31/12/2018							
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	6.4		20/11/2018 10:32 - 11:40		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	0.9		03/10/2018 10:47 - 12:57		0.4
A17 ⁺ Pickle Line Scalemaster	Particulate matter	5 mg/m3	---		---		---

*Non operational

[>] Annual sample result reported during Q1

⁺ Annual sample result reported during Q1

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Date: 28/01/2019

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 01/10/2018 to 31/12/2018			
Parameter	Limit	Daily Max *	Daily Mean *
Flow Rate	28000 m ³ /day (dry weather)	10,721	8,779
pH min	6	6.3	9.336
pH max	12	11.7	
Total Hydrocarbon Oil*	5 mg/l	4.9	0.1
Suspended solids**	100 mg/l	96	29.9
Dissolved iron	10 mg/l	0.844	0.362
Total chromium	0.2 mg/l	0.021	0.048
Dissolved nickel	0.2 mg/l	0.024	0.015
Zinc	2 mg/l	0.077	0.027
Copper	0.1 mg/l	0.045	0.017
Lead	0.8 mg/l	0.012	0.008
Cadmium	0.05 mg/l	0.01	0.003
Mercury	0.05 mg/l	0.004	0.001
Ammoniacal Nitrogen	None	0.5	0.173

* Includes wet flow conditions

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Date: 28/01/2019