

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 01/10/2019 to 31/12/2019							
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: 10/02/2020

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 01/10/2019 to 31/12/2019								
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	75.9	Electrochemical Cell - BSEN15058 & BSEN14792	19/11/2019 13:49 - 14:04	Level 2 Mcerts	3.7
	CO		None	229.4				9.9
A14 Boiler No1	Gas Oil	NOx (as NO2)	200 mg/m3	---		29/11/2019 10:48 - 11:21		---
		CO	None	---				---
	Natural Gas	NOx (as NO2)	140 mg/m3	107.2				3.6
		CO	None	0				1.1
A15 Boiler No2	Gas Oil	NOx (as NO2)	200 mg/m3	---		---		---
		CO	None	---				---
	Natural Gas	NOx (as NO2)	140 mg/m3	126		29/11/2019 11:57 - 12:12		4.3
		CO	None	0				1.3
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: 
 (authorised to sign as a representative of the operator)

Date: 10/02/2020

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 01/10/2019 to 31/12/2019							
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	4.9		19/11/2019 11:59 - 13:06		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

*Not sampled during Q3

Signed: 
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Date: 10/02/2020

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 01/10/2019 to 31/12/2019			
Parameter	Limit	Daily Max *	Daily Mean *
Flow Rate	28000 m ³ /day (dry weather)	107,355	63,331
pH min	6	6.4	10.218
pH max	12	11.9	
Total Hydrocarbon Oil	5 mg/l	4.7	1.087
Suspended solids	100 mg/l	178	36
Dissolved iron	10 mg/l	1.415	0.328
Total chromium	0.2 mg/l	0.059	0.013
Dissolved nickel	0.2 mg/l	0.200	0.037
Zinc	2 mg/l	1.826	0.287
Copper	0.1 mg/l	0.523	0.026
Lead	0.8 mg/l	0.087	0.013
Cadmium	0.05 mg/l	0.002	0.001
Mercury	0.05 mg/l	0.050	0.041
Ammoniacal Nitrogen	None	2.000	0.232

* Includes wet flow conditions

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