

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 01/07/2020 to 30/09/2020							
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: 23/10/2020

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 01/07/2020 to 30/09/2020								
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	115.8	Electrochemical Cell - BSEN15058 & BSEN14792	25/08/2020 11:49 - 12:05	Level 2 Mcerts	6.3
	CO		None	15.7				2.6
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	111		25/08/2020 10:53 - 11:09		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	114.7		25/08/2020 11:18 - 11:33		4.0
		CO	None	0		1.1		

* - Boiler 1 offline during sampling

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

Date: 23/10/2020

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 01/07/2020 to 30/09/2020							
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	6.8		30/09/2020 11:30 - 12:45		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: 23/10/2020

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 01/07/2020 to 30/09/2020			
Parameter	Limit	Daily Max *	Daily Mean *
Flow Rate	28000 m ³ /day (dry weather)	9,032	7,339
pH min	6	8.0	10.6
pH max	12	11.9	
Total Hydrocarbon Oil	5 mg/l	4.6	0.70
Suspended solids	100 mg/l	176	26.7
Dissolved iron	10 mg/l	1.00	0.40
Total chromium	0.2 mg/l	0.036	0.012
Dissolved nickel	0.2 mg/l	0.137	0.045
Zinc	2 mg/l	1.460	0.477
Copper	0.1 mg/l	0.017	0.004
Lead	0.8 mg/l	0.036	0.012
Cadmium	0.05 mg/l	0.001	0.001
Mercury	0.05 mg/l	0.050	0.032
Ammoniacal Nitrogen	None	0.600	0.186

* Includes wet flow conditions

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Date: 23/10/2020