

RELEASES INTO AIR

Release summary for six months ending

31/12/2016

Operator: Tata Steel UK

Release Point: A55

Location: Port Talbot Works

Permit: BL7108

Substance	Sulphur Dioxide	Particulate Matter	Oxides of Nitrogen	Carbon Monoxide
Permit limit (mg/m3)	250 Lean gas 1000 Rich gas	100 As an hourly mean	1600 lean gas 4000 Rich gas	
Measured Concentration	294 (+/-9.0)	15 (+/-1.9)	2104 (+/-80.6)	11955
Sampling method used	BS 6069	BS EN 13284	ISO 10849	BS ISO 12039
Analytical method used	EC *	Gravimetric	EC *	EC *
Date of sampling	10-Aug-17	18-May-17	10-Aug-17	10-Aug-17
Sampling start time	10:46	10:00	10:46	10:46
Sampling end time	11:46	12:04	11:46	11:46
Date of analysis	10-Aug-17	10-Aug-17	10-Aug-17	10-Aug-17
Limit of detection	1.6	0.6	1.4	0
Continuous monitor result over sample period (% opacity)		3		
Annual release limit (kg)	600,000	100,000	3,000,000	-
Annual release (kg)**	788,972	13,392	2,033,490	5,470,565
Fuel usages over the sampling period				
Natural gas %				
Blast furnace gas %	41	41	41	41
Coke oven gas %	59	59	59	59
Heavy fuel oil %				
Type of firing during sampling	Lean gas	Lean gas	Lean gas	Lean gas

* EC - electrochemical cell

Release point A55 is monitored six monthly for sulphur dioxide and oxides of nitrogen and annually for particulate matter. Mass release limits are annual limits and are to be reported annually.

**Annual Release data to be submitted following PI completion

Signed on behalf of the Operator:

Dated: 23-Apr-2018

Form Coke DCM Misc

RELEASES INTO AIR

Release summary for quarter ending

31-Dec-17

Operator: Tata UK Ltd

Release Points: A56, A58

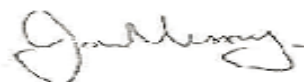
Location: Port Talbot Works

Permit: BL7108

Release Point	A56 Flue 1/2/3	A58 (Annually)
Permit limit (mg/m3)	20	-
Measured conc (mg/m3)	2.1 (+/- 1.1)	-
Sampling method used	BS EN 13284	-
Analytical method used	Gravimetric	-
Date of sampling	31-Oct-17	-
Sampling start time	10:50	-
Sampling end time	12:41	-
Date of analysis	31-Oct-17	-
Limit of detection	0.6	-
Annual release limit (kg)	25,000	-
Annual release (kg)	2945	-

Release point A56 is monitored quarterly. Release point A58 is no longer operational.
Mass release limits are annual limits and are to be reported annually.

Signed on behalf of the Operator:

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Dated: 23-Apr-2018

Form Coke DCM Parts

RELEASES INTO AIR

Release summary for quarter ending

31-Dec-17

Operator: Tata UK Ltd

Release Point: A57

Location: Port Talbot Works

Permit: BL7108

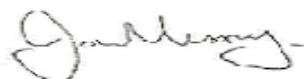
Substance	Sulphur dioxide	Oxides of Nitrogen
Permit limit (mg/m3)	2000	200
Measured conc (mg/m3) **	727 (+/-50.6)	28 (+/-2.0)
Sampling method used	BS 6069	ISO 10849
Analytical method used	EC *	EC *
Date of sampling	03-Nov-17	03-Nov-17
Sampling start time	10:32	10:32
Sampling end time	11:32	11:32
Date of analysis	03-Nov-17	03-Nov-17
Limit of detection	1.6	1.4
Process status during sampling	2 stills & 2 incinerators on	2 stills & 2 incinerators on
Annual release limit (kg)		
Annual release (kg)	387,980	23,902
Fuel usages over the sampling period		
Natural gas %		
Blast furnace gas %		
Coke oven gas %	100	100
Heavy fuel oil %		

Mass release limits are annual mass release limits and are to be reported annually.

* EC - electrochemical cell

** Releases corrected to 10.1.3b

Signed on behalf of the Operator:

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Dated: 23-Apr-2018

Form DCM SO₂ & NO_x

RELEASES INTO AIR

Operational summary for quarter ending

31-Dec-17

Operator: Port Talbot Works

Location: Port Talbot Works

Permit: BL7108 / RP3730BV

	NOx (tonnes)	Lead (tonnes)	PM10 (tonnes)	CO2 (k tonnes)
Morfa	489			
Iron & Steel	692	1.8	383	1433
Total	1181	1.8	383	1433

Signed on behalf of the Operator

Dated 25/04/18



Form KPI

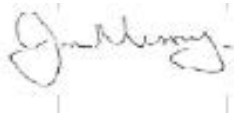
Operational summary for the year ending 31/12/2017

Operator: Tata Steel UK Ltd
Location: Port Talbot Works
Permit: BL7108/RP3730BV

Inputs		
Coal - Cokemaking	1.26	t/t coke
Coal - Steel Making	193.92	kg/t LS
Sinter/Pellets/Lump ores	1458	kg/t LS
Coke	401	kg/t LS
Lime	43	kg/t LS
Limestone/Magstone	136	kg/t LS
Dolomet/Doloflux	34.3	kg/t LS
Scrap	167	kg/t LS
Water abstracted	4.7	m3/t LS
Energy	20.8	GJ/t LS
Ferrous Cargo Delivery	5,536,000	Tonnes
Carbon Cargo Delivery	1,787,000	Tonnes
Recycled		
Reverts to Sinter Plant	110	kg/t LS
BF Slag	214	kg/t LS
BOS Slag	102	kg/t LS
Scrap (internal arisings)	148	kg/t LS
Briquettes (BOS)	0	kg/t LS
Millscale	16	kg/t LS
Recovered oil	0.0003	kg/t LS
Outputs		
Coke	888,219	Tonnes
Liquid Steel	3,687,177	Tonnes
<i>To Air:</i>		
Particulate	0.55	kg/t LS
Sulphur dioxide	1.95	kg/t LS
Oxides of nitrogen	1.35	kg/t LS
<i>To Water:</i>		
Volume	4.57	m3/t LS
Suspended solids	205.9	g/t LS
Oil & grease	10.75	g/t LS
Total cyanide	0.02	g/t LS
Phenols	0.15	g/t LS
Ammonia	50.2	g/t LS
Metals [total] (Fe,Zn,Pb & Cr)	12.51	g/t LS
<i>To Land:</i>		
Slag (BOS & Desulph)	3.9	kg/t LS
BF slurry	0.01	kg/t LS
BOS slurry	*	kg/t LS
Refractories	0.00	kg/t LS
Demolition waste	0.0	kg/t LS
Filter cake	0.5	kg/t LS
General rubbish	0.5	kg/t LS

* Data not available at time of compiling returns. Information will follow when available.

Signed on behalf of the Operator

Dated  23/04/2018

Form Site Operational