

RELEASES INTO AIR

Operational summary for the month December-16

Operator: Tata Steel UK Ltd
Location: Port Talbot Works

Release Point: A55
Permit: BL7108/AP3330BE

Obscuration (%)	Day																															*	Month Mean
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Daily Mean	11.2	10.9	8.4	9.2	13.7	13.7	13.2	13.2	16.9	16.6	17.2	14.9	16.7	18.0	15.2	17.1	11.7	13.9	20.1	18.7	14.0	11.2	6.3	9.7	7.5	8.2	8.7	7.8	9.9	11.4	#N/A	12.8	
Weekly Mean Limit=25%		11.8							12.6							16.5							13.7							9.0			
Max Hourly	19	23	15	14	48	21	30	30	24	21	22	22	21	31	24	30	20	19	33	29	28	44	12	28	15	10	11	13	18	24	22		
Time greater than R1 (mins)	11	76	13	0	158	43	143	134	258	51	49	69	66	276	78	227	27	42	292	373	70	114	4	66	12	1	8	0	5	35	17	Total 2718	

Ringelmann 1 (R1) equivalent to smoke opacity of 25%
Ringelmann 2 (R2) equivalent to smoke opacity of 50%
Ringelmann 3 (R3) equivalent to smoke opacity of 75%
Ringelmann 4 (R4) equivalent to smoke opacity of 100%
*No data available

Signed on behalf of the Operator: 

Dated: 26-Jan-2017

Form Coke CEMS Smoke

RELEASES INTO AIR

Release summary for quarter ending

31-Dec-16

Operator: Tata UK Ltd

Release Point: A54

Location: Port Talbot Works

Permit: BL7108

Criteria	DLCF (%)	TLCF (%)	MEF	PEF
Monthly average limit	10.00	1.00	0.071	0.074
October	14.13	5.97	<0.25	<0.25
November	13.18	4.69		
December	12.87	5.28		
Highest weekly MEF/PEF			0.23	0.34
No weekly assessment to exceed			0.4	0.4
Date of lowest daily DLCF/TLCF				
Date & oven number of highest MEF/PEF			2 12-Dec-16	43 19-Dec-16
No.Ovens MEF/PEF >1			1	3

Signed on behalf of the Operator:



Dated: 27-Jan-2017

Form Coke DCM CF

RELEASES INTO AIR

Release summary for quarter ending

31-Dec-16

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/m ³)	50	50
Measured conc (mg/m ³)	0.3 (+/- 1.2)	-
Sampling method used	BS EN 13284	-
Analytical method used	Gravimetric	-
Date of sampling	17-Oct-16	-
Sampling start time	09:53	-
Sampling end time	11:42	-
Date of analysis	17-Oct-16	-
Limit of detection	0.6	-
Annual release limit (kg)	25,000	10,000
Annual release (kg)	-	-

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.

4.492011019

Signed on behalf of the Operator:



Dated: 26-Jan-2017

Form Coke DCM Parts

RELEASES INTO AIR

Release summary for quarter ending

31-Dec-16

Operator: Tata UK Ltd

Release Point: A56

Location: Port Talbot Works

Permit: BL7108 / BL7108IM (V009)

Month	No. ovens discharged with Minister Stein in the month	Total no. ovens discharged in the month	% of ovens discharged with the Minister Stein in the month
January	3216	3236	99.38%
February	3146	3239	97.13%
March	2612	2662	98.12%
April	2849	2956	96.38%
May	2802	2900	96.62%
June	3474	3584	96.93%
July	2632	2650	99.32%
August	2012	2041	98.58%
September	3510	3596	97.61%
October	2681	2785	96.27%
November	2796	2799	99.89%
December	3343	3471	96.31%
Total	35073	35919	97.6%

Limits 98% availability (unplanned outages) - annual.

Limits 94% availability (all outages) - annual.

Signed on behalf of the Operator:



Dated: 26-Jan-2017

**Form Coke Minister Stein
(Revision 1)**

RELEASES INTO AIR

Release summary for quarter ending

31-Dec-16

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) **	907 (+/-20.9)	85 (+/-2.3)
Sampling method used	BS 6069	ISO 10849
Analytical method used	EC *	EC *
Date of sampling	21-Oct-16	21-Oct-16
Sampling start time	13:55	13:55
Sampling end time	14:55	14:55
Date of analysis	21-Oct-16	21-Oct-16
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)	—	—
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:



Dated: 26-Jan-2017

Form DCM SO₂ & NO_x

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	116 (+/-4.4)	30 (+/-2)	1566 (+/-62)	6087
Sampling method used	BS 6069	BS EN 13284	ISO 10849	BS ISO 12039
Analytical method used	EC *	Gravimetric	EC *	EC *
Date of sampling	12-Sep-16	12-Sep-16	12-Sep-16	12-Sep-16
Sampling start time	09:16	10:05	09:16	09:16
Sampling end time	10:16	11:57	10:16	10:16
Date of analysis	12-Sep-16	12-Sep-16	12-Sep-16	12-Sep-16
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)**	-	-	-	-
Fuel usages over the sampling period				
Natural gas %				
Blast furnace gas %	77	77	77	77
Coke oven gas %	23	23	23	23
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: 26-Jan-2017

Form Coke DCM Misc

RELEASES INTO AIR

Release summary for the year ending 31/12/2016

Operator: Tata Steel UK **Release Point:** A55
Location: Port Talbot Works **Permit:** BL7108

Month	Sulphur dioxide (tonnes)	Oxides of Nitrogen (tonnes)
January	37	104
February	25	104
March	42	190
April	32	161
May	45	159
June	37	196
July	36	149
August	20	137
September	42	188
October	55	167
November	63	139
December	67	191
Total	501	1885

Signed on behalf of the Operator:



Dated: 26-Jan-2017

Form Coke Monthly SO₂ & NO_x