

RELEASES INTO AIR

Operational summary for the month

December-15

Operator: Tata Steel UK Ltd

Release Point: A55

Location: Port Talbot Works

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	8.7	4.6	6.7	10.2	9.2	6.3	8.2	8.6	8.2	17.4	13.7	8.4	15.6	10.7	6.7	13.0	12.1	9.1	5.6	5.6	6.4	9.6	10.1	9.8	14.4	11.0	20.0	24.9	20.3	15.3	22.2	11.4
Weekly Mean Limit=25%		8.4							8.2							12.2							8.3							19.0		
Max Hourly	15	8	12	18	15	11	11	16	15	24	22	12	22	20	12	24	16	18	15	10	10	21	19	13	22	19	35	29	42	24	24	
Time greater than R1 (mins)	0	6	0	7	5	5	2	11	7	235	92	0	123	74	1	62	1	26	24	0	0	27	8	3	48	15	396	724	335	155	387	Total 2779

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%

Signed on behalf of the Operator:



Dated: 22-Jan-2016

Form Coke CEMS Smoke

RELEASES INTO AIR

Release summary for quarter ending

30-Dec-15

Operator: Tata UK Ltd

Release Point: A54

Location: Port Talbot Works

Permit: BL7108

Criteria	DLCF (%)	TLCF (%)	MEF	PEF
Monthly average limit	20.00	10.00	0.071	0.074
October	11.35	7.41	<0.25	<0.25
November	10.32	6.33		
December	10.89	8.00		
Highest weekly MEF/PEF			0.27	0.39
No weekly assessment to exceed			0.4	0.4
Date of lowest daily DLCF/TLCF				
Date & oven number of highest MEF/PEF				
No.Ovens MEF/PEF >1			52 11-Nov-15 75 01-Dec-15 1.100	52 26-Nov-15 1.600
			3	7

Signed on behalf of the Operator:



Dated: 5-Jan-2016

Form Coke DCM CF

RELEASES INTO AIR

Release summary for quarter ending

30-Dec-15

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)	50	
Measured conc (mg/m3)	3.0	
Sampling method used	BS EN 13284	
Analytical method used	Gravimetric	
Date of sampling	16-Nov-15	
Sampling start time	10:55	
Sampling end time	12:44	
Date of analysis	16-Nov-15	
Limit of detection	0.6	
Annual release limit (kg)	25,000	
Annual release (kg)	2,071	

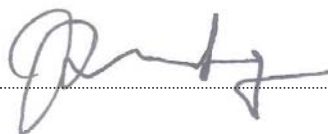
Release point A56 is monitored quarterly.

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

Release point A58 is non operational.

*To be submitted following Pollution Inventory calculations

Signed on behalf of the Operator:



Dated: 5-Jan-2016

Form Coke DCM Parts

RELEASES INTO AIR

Release summary for quarter ending

30-Dec-15

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	3434	3541	96.98%
February	3349	3624	92.41%
March	3463	3581	96.70%
April	3009	3500	85.97%
May	2825	2955	95.60%
June	2793	2877	97.08%
July	3195	3323	96.15%
August	2758	2777	99.32%
September	2736	2860	95.66%
October	3515	3552	98.96%
November	2398	2491	96.27%
December	2569	2671	96.18%
Total	36044	37752	95.5%

Limits 98% availability (unplanned outages) - annual.

Limits 94% availability (all outages) - annual.

Signed on behalf of the Operator:



Dated: 5-Jan-2016

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

RELEASES INTO AIR

Release summary for quarter ending

30-Dec-15

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) **	942	98
Sampling method used	BS 6069	ISO 10849
Analytical method used	EC *	EC *
Date of sampling	11-Dec-15	11-Dec-15
Sampling start time	11:45	11:45
Sampling end time	12:45	12:45
Date of analysis	11-Dec-15	11-Dec-15
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)	750,000	140,000
Annual release (kg)	259,545	23,349
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: 5-Jan-2016

Form DCM SO₂ & NO_x

RELEASES INTO AIR

Release summary for six months ending

30/06/2014

Operator: Tata Steel UK

Release Point: A55

Location: Port Talbot Works

Permit: BL7108

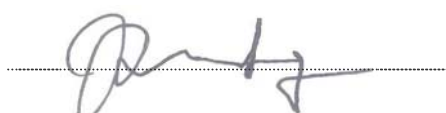
Substance	Sulphur Dioxide	Particulate Matter	Oxides of Nitrogen	Carbon Monoxide
Permit limit (mg/m3)	250 Lean gas 1000 Rich gas	100 As an hourly mean	1600 lean gas 4000 Rich gas	
Measured Concentration	254	13	2197	2311
Sampling method used	BS 6069	BS EN 13284	ISO 10849	BS ISO 12039
Analytical method used	EC *	Gravimetric	EC *	EC *
Date of sampling	16-Dec-15	16-Dec-15	16-Dec-15	16-Dec-15
Sampling start time	09:40	09:42	09:40	09:40
Sampling end time	10:40	11:51	10:40	10:40
Date of analysis	16-Dec-15	16-Dec-15	16-Dec-15	16-Dec-15
Limit of detection	1.6	0.6	1.4	0
Continuous monitor result over sample period (% opacity)		12		
Annual release limit (kg)	600,000	100,000	3,000,000	-
Annual release (kg)	363,310	11,536	1,734,674	3,905,946
Fuel usages over the sampling period				
Natural gas %				
Blast furnace gas %	50	100	50	50
Coke oven gas %	50	0	50	50
Heavy fuel oil %				
Type of firing during sampling	Lean Rich	Lean	Lean Rich	Lean Rich

* 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.

Signed on behalf of the Operator:

Dated: 5-Jan-2016



Form Coke DCM Misc

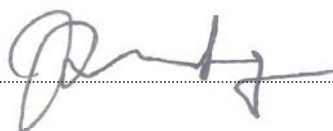
RELEASES INTO AIR

Release summary for the year ending 31/12/2011

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

Month	Sulphur dioxide (tonnes)	Oxides of Nitrogen (tonnes)
January	22	38
February	19	156
March	31	150
April	43	150
May	23	156
June	32	160
July	29	147
August	112	112
September	23	160
October	31	31
November	24	148
December	41	154
Total	428	1563
Limit (annual)	600	3000

Signed on behalf of the Operator:



Dated: 5-Jan-2016

Form Coke Monthly SO₂ & NO_x