

RELEASES INTO AIR

Release summary for quarter ending

31-Dec-17

Operator: Tata UK Ltd

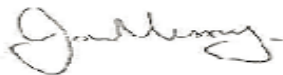
Release Point: A54

Location: Port Talbot Works

Permit: BL7108

Criteria	DLCF (%)	TLCF (%)	MEF	PEF
Monthly average limit	10.00	1.00		
October	12.17	6.47		
November	10.88	5.71		
December	10.81	4.92		
Highest weekly MEF/PEF				
No weekly assessment to exceed				
Date of lowest daily DLCF/TLCF				
Date & oven number of highest MEF/PEF				
No.Ovens MEF/PEF >1				

Signed on behalf of the Operator:

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Dated: 23-Jan-2018

Form Coke DCM CF

RELEASES INTO AIR

Release summary for quarter ending

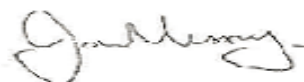
30-Sep-17

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)	-	-

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: 9-Jan-2018

Form Coke DCM Parts

RELEASES INTO AIR

Release summary for quarter ending

31-Dec-17

Operator: Tata UK Ltd

Release Point: A56

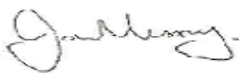
Location: Port Talbot Works

Permit: BL7108 / BL7108IM

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	2652	2805	94.55%
February	2871	2907	98.76%
March	3613	3641	99.23%
April	2749	2791	98.50%
May	2729	2776	98.31%
June	2726	2751	99.09%
July	3505	3505	100.00%
August	2824	2835	99.61%
September	3580	3580	100.00%
October	2808	2808	100.00%
November	2662	2662	100.00%
December	3397	3397	100.00%
Total	17340	17671	98.1%

Limits 98% availability (unplanned outages) - annual.

Limits 94% availability (all outages) - annual.

Signed on behalf of the Operator: 

Dated: 23-Jan-2018

Form Coke Minister Stein
(Revision 1)

RELEASES INTO AIR

Release summary for quarter ending

31-Dec-17

Operator: Tata UK Ltd

Release Point: A57

Location: Port Talbot Works

Permit: BL7108

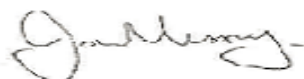
Substance	Sulphur dioxide	Oxides of Nitrogen
Permit limit (mg/m3)	2000	200
Measured conc (mg/m3) **	727 (+/-50.6)	28 (+/-2.0)
Sampling method used	BS 6069	ISO 10849
Analytical method used	EC *	EC *
Date of sampling	03-Nov-17	03-Nov-17
Sampling start time	10:32	10:32
Sampling end time	11:32	11:32
Date 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)	—	—
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: 19-Jan-2018

Form DCM SO₂ & NO_x

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	43	156
February	41	159
March	54	204
April	34	161
May	58	167
June	62	161
July	54	167
August	92	179
September	59	171
October	59	175
November	83	168
December	38	166
Total	676	2033

Signed on behalf of the Operator:

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Dated: 9-Jan-2018

Form Coke Monthly SO₂ & NO_x

RELEASES INTO AIR

Operational summary for the month December-17

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	22.2	19.1	15.7	19.1	19.7	14.7	14.4	14.4	20.0	25.4	24.3	28.6	26.7	27.8	21.0	28.1	32.8	44.2	51.6	48.7	23.5	16.6	25.9	20.5	29.0	29.2	28.6	23.6	26.8	36.7	40.7	26.4	
Weekly Mean Limit=25%				23.2							19.0							29.9							30.8								
Max Hourly	28	29	25	37	24	17	25	28	33	34	34	35	35	33	33	38	45	55	68	66	40	25	39	29	40	45	45	40	42	46	7		
Time greater than R1 (mins)	431	328	61	272	214	6	24	104	291	681	621	955	915	1047	554	1082	1205	1440	1439	1413	591	135	762	300	989	838	911	605	819	1316	0	Total 20349	

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-2018

Form Coke CEMS Smoke

RELEASES INTO AIR

Operational summary for the month November-17

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	
Daily Mean	22.2	19.1	15.7	19.1	19.7	14.7	14.4	14.4	20.0	25.4	24.3	28.6	26.7	27.8	21.0	28.1	32.8	44.2	51.6	48.7	23.5	16.6	25.9	20.5	29.0	29.2	28.6	23.6	26.8	36.7	26.0
Weekly Mean Limit=25%						17.5							22.0							36.3						24.8					
Max Hourly	28	29	25	37	24	17	25	28	33	34	34	35	35	33	33	38	45	55	68	66	40	25	39	29	40	45	45	40	42	46	
Time greater than R1 (mins)	431	328	61	272	214	6	24	104	291	681	621	955	915	1047	554	1082	1205	1440	1439	1413	591	135	762	300	989	838	911	605	819	1316	Total 20349

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: 1-Dec-2017

Form Coke CEMS Smoke

RELEASES INTO AIR

Operational summary for the month October-17

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	15.5	20.5	20.5	17.3	9.4	12.4	13.3	13.3	14.2	16.6	14.0	9.9	18.0	16.8	14.0	9.0	10.3	12.9	15.9	19.1	15.0	14.4	11.9	14.5	13.1	18.6	22.9	17.9	19.9	26.6	23.1	15.8
Weekly Mean Limit=25%						15.8							14.2							14.0							15.8					
Max Hourly	23	30	28	25	16	18	14	19	19	21	23	14	28	24	18	15	14	17	22	30	23	20	18	32	28	26	30	21	28	33	37	
Time greater than R1 (mins)	43	347	242	115	8	13	0	21	1	27	43	4	240	108	9	1	19	50	81	266	58	45	5	95	70	247	474	24	171	778	0	Total 3605

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: 24-Nov-2017

Form Coke CEMS Smoke

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)**	-	-	-	-
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: 22-Jan-2018

Form Coke DCM Misc