

RELEASES INTO AIR

Operational summary for the month October-18

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	9.3	9.9	12.7	14.0	16.0	15.1	18.4	18.4	17.5	10.9	16.3	17.0	12.3	17.4	7.8	7.3	11.0	11.3	9.7	10.8	10.7	11.6	10.4	10.1	13.9	15.1	17.7	17.3	13.4	14.5	9.9	13.1
Weekly Mean Limit=25%	12.7							14.9							14.2							10.3							14.0			
Max Hourly	20	21	22	34	31	38	33	24	26	15	22	23	22	23	18	13	19	25	18	25	22	22	18	18	0	25	23	24	26	20	22	
Time greater than R1 (mins)	18	11	37	204	123	164	593	114	111	4	60	51	18	85	22	11	46	49	44	104	22	62	39	15	72	71	73	96	38	33	0	Total 2390

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: 14-Dec-2018

Form Coke CEMS Smoke

RELEASES INTO AIR

Operational summary for the month November-18

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	17.3	12.8	13.6	16.0	11.2	14.8	10.9	10.9	18.8	15.3	18.0	13.2	11.8	14.1	10.2	7.9	9.3	9.3	13.1	18.1	24.3	17.6	13.5	17.8	17.4	13.5	15.1	17.2	18.1	13.4	14.5
Weekly Mean Limit=25%					12.9							14.6							10.8							17.5					
Max Hourly	25	21	23	27	20	25	16	20	35	30	27	19	20	27	19	13	15	20	29	26	36	27	23	28	0	24	18	24	28	26	
Time greater than R1 (mins)	264	39	42	152	5	96	0	14	312	87	125	22	36	134	30	10	11	32	55	189	570	248	95	204	175	62	47	144	86	24	Total 3310

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: 7-Jan-2019

Form Coke CEMS Smoke

RELEASES INTO AIR

Operational summary for the month December-18

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	12.6	9.5	9.3	11.0	14.9	14.3	23.4	23.4	22.0	17.5	25.5	30.8	26.3	28.1	20.1	24.6	20.8	20.9	20.5	15.4	17.1	15.6	19.2	11.6	14.9	10.3	10.9	12.5	11.0	13.5	22.3	17.7
Weekly Mean Limit=25%			13.6							18.1							25.2							17.2							13.6	
Max Hourly	20	19	16	20	25	25	34	40	30	27	34	40	54	48	36	38	24	25	34	24	26	23	27	24	0	23	21	17	19	19	18	
Time greater than R1 (mins)	71	27	8	39	60	56	304	227	153	76	786	1045	668	830	217	571	200	231	486	101	165	64	277	34	86	9	18	24	17	12	0	Total 6862

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: 7-Jan-2019

Form Coke CEMS Smoke

RELEASES INTO AIR

Release summary for quarter ending

31-Dec-18

Operator: Tata UK Ltd

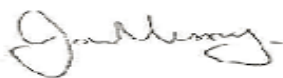
Release Point: A54

Location: Port Talbot Works

Permit: BL7108

Criteria	DLCF (%)	TLCF (%)	MEF	PEF
Monthly average limit	10.00	1.00		
October	6.62	1.05		
November	5.62	1.05		
December	5.04	1.38		
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:



Dated: 4-Jan-2019

Form Coke DCM CF

RELEASES INTO AIR

Release summary for quarter ending

31-Dec-18

Operator: Tata UK Ltd

Release Points: A56, A58

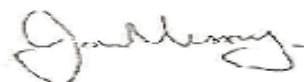
Location: Port Talbot Works

Permit: BL7108

Release Point	A56 Flue 1/2/3	A58 (Annually)
Permit limit (mg/m ³)	20	-
Measured conc (mg/m ³)	0.7 (+/- 0.8)	-
Sampling method used	BS EN 13284	-
Analytical method used	Gravimetric	-
Date of sampling	31-Oct-18	-
Sampling start time	09:52	-
Sampling end time	11:48	-
Date of analysis	31-Oct-18	-
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: 14-Dec-2018

Form Coke DCM Parts

RELEASES INTO AIR

Release summary for quarter ending

31-Dec-18

Operator: Tata UK Ltd

Release Point: A56

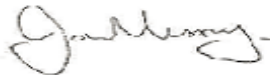
Location: Port Talbot Works

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	0	2800	0.00%
February	0	2754	0.00%
March	0	3236	0.00%
April	0	2918	0.00%
May	0	2846	0.00%
June	0	2762	0.00%
July	0	3325	0.00%
August	2658	2666	99.70%
September	3375	3386	99.68%
October	2647	2650	99.89%
November	2614	2615	99.96%
December	3420	3420	100.00%
Total	6033	17316	34.8%

Limits 98% availability (unplanned outages) - annual.

Limits 94% availability (all outages) - annual.

Signed on behalf of the Operator: 

Dated: 21-Jan-2019

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

RELEASES INTO AIR

Release summary for quarter ending

31-Dec-18

Operator: Tata UK Ltd

Release Point: A57

Location: Port Talbot Works

Permit: BL7108

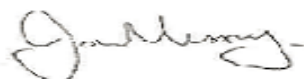
Substance	Sulphur dioxide	Oxides of Nitrogen
Permit limit (mg/m3)	2000	200
Measured conc (mg/m3) **	687 (+/-20.2)	46 (+/-1.3)
Sampling method used	BS 6069	ISO 10849
Analytical method used	EC *	EC *
Date of sampling	14-Dec-18	14-Dec-18
Sampling start time	10:32	10:32
Sampling end time	11:21	11:21
Date of analysis	14-Dec-18	14-Dec-18
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: 21-Jan-2019

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	95 (+/-3.8)	47 (+/-1.8)	1203 (+/-48.7)	6250
Sampling method used	BS 6069	BS EN 13284	ISO 10849	BS ISO 12039
Analytical method used	EC *	Gravimetric	EC *	EC *
Date of sampling	13-Nov-18	18/011/2018	13-Nov-18	13-Nov-18
Sampling start time	11:11	11:00	11:11	11:11
Sampling end time	13:15	13:15	13:15	13:15
Date of analysis	13-Nov-18	13-Nov-18	13-Nov-18	13-Nov-18
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 %	73	73	73	73
Coke oven gas %	27	27	27	27
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: 16-Jan-2019

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	172
February	56	147
March	52	172
April	49	174
May	40	147
June	31	154
July	35	129
August	56	161
September	59	157
October	75	161
November	66	157
December	77	176
Total	635	1905

Signed on behalf of the Operator:



Dated: 4-Jan-2019

Form Coke Monthly SO₂ & NO_x