

RELEASES INTO AIR

Release summary for quarter ending

30-Jun-17

Operator: Tata UK Ltd

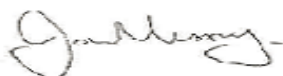
Release Point: A54

Location: Port Talbot Works

Permit: BL7108

Criteria	DLCF (%)	TLCF (%)
Monthly average limit	10.00	1.00
Apr	11.92	5.86
May	10.12	5.97
June	9.48	3.99

Signed on behalf of the Operator:

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Dated: 18-Jul-2018

Form Coke DCM CF

RELEASES INTO AIR

Release summary for quarter ending

30-Jun-17

Operator: Tata UK Ltd

Release Point: A56

Location: Port Talbot Works

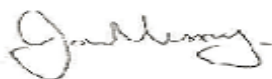
Permit: BL7108 / BL7108IM

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	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			
August			
September			
October			
November			
December			
Total	0	8790	0.0%

Limits 98% availability (unplanned outages) - annual.

Limits 94% availability (all outages) - annual.

Signed on behalf of the Operator:



Dated: 18-Jul-2018

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

RELEASES INTO AIR

Release summary for quarter ending

30-Jun-17

Operator: Tata UK Ltd

Release Point: A57

Location: Port Talbot Works

Permit: BL7108

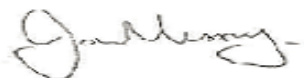
Substance	Sulphur dioxide	Oxides of Nitrogen
Permit limit (mg/m3)	2000	200
Measured conc (mg/m3) **	3232 (+/-87.5)	158 (+/-4.3)
Sampling method used	BS 6069	ISO 10849
Analytical method used	EC *	EC *
Date of sampling	15-Jun-18	15-Jun-18
Sampling start time	10:07	10:07
Sampling end time	11:07	11:07
Date of analysis	15-Jun-18	15-Jun-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:



Dated: 18-Jul-2018

Form DCM SO2 & NOx

RELEASES INTO AIR

Release summary for quarter ending

30-Jun-17

Operator: Tata UK Ltd

Release Point: A57

Location: Port Talbot Works

Permit: BL7108

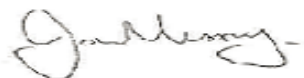
Substance	Sulphur dioxide	Oxides of Nitrogen
Permit limit (mg/m3)	2000	200
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Process status during sampling	2 stills & 2 incinerators on	2 stills & 2 incinerators on
Annual release limit (kg)		
Annual release (kg)	—	—
Fuel usages over the sampling period		
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: 24-Jul-2018

Form DCM SO2 & NOx

RELEASES INTO AIR

Operational summary for the month April-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	12.4	15.2	9.8	8.4	11.1	8.2	12.3	12.3	9.8	10.7	14.1	17.5	12.1	6.7	11.1	18.8	20.4	17.2	20.0	19.7	16.9	14.7	16.5	18.6	21.4	8.9	8.8	5.7	5.4	10.9		13.2
Weekly Mean Limit=25%		16.5							10.3							13.0							17.9							11.4		
Max Hourly	20	22	17	16	16	17	13	20	16	15	24	42	21	11	16	27	30	21	29	31	25	23	26	24	0	26	26	23	10	9		
Time greater than R1 (mins)	6	15	1	3	0	3	0	44	1	3	43	132	83	0	9	288	408	52	232	317	167	58	101	67	227	49	21	3	0	67		Total 2400

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: 16-May-2018

Form Coke CEMS Smoke

RELEASES INTO AIR

Operational summary for the month June-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	17.6	12.0	7.5	8.0	7.6	8.4	10.1	10.1	11.8	8.5	6.9	7.6	13.8	18.9	13.8	12.9	9.6	15.0	11.4	6.3	7.9	7.0	8.0	8.5	6.3	6.4	6.4	9.7	9.7	12.4	10.0
Weekly Mean Limit=25%				9.7							9.1							13.1							7.9						
Max Hourly	27	27	13	18	11	19	17	17	27	17		14	25	32	22	24	14	21	24	14	13	12	24	25	0	9	14	12	17	15	
Time greater than R1 (mins)	313	115	5	5	0	11	15	28	68	19	1	0	69	276	21	139	7	29	62	33	7	13	41	50	3	6	13	42	22	81	Total 1494

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: 18-Jul-2018

Form Coke CEMS Smoke

RELEASES INTO AIR

Operational summary for the month May-18

Operator: Tata Steel UK Ltd

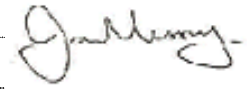
Release Point: A55

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	6.9	8.5	9.5	6.8	8.5	8.6	13.5	13.5	14.7	9.1	8.0	8.9	10.8	8.1	9.5	8.7	9.2	11.6	10.4	7.5	8.2	15.2	22.4	15.8	17.6	13.6	11.6	11.0	14.0	10.5	7.9	11.0
Weekly Mean Limit=25%							8.9							10.5							9.3							15.3				
Max Hourly	15	16	21	8	13	13	19	18	25	14	13	19	16	15	17	18	13	17	18	17	12	23	37	28	0	31	27	26	20	22	20	
Time greater than R1 (mins)	22	1	5	0	6	3	21	26	106	8	4	16	14	1	10	30	4	24	33	13	2	101	541	233	200	199	58	25	110	4	0	Total 1820

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-Jun-2018

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	Annual PM limit will be reported at the next quarter	1600 lean gas 4000 Rich gas	
Measured Concentration	80 (+/-3.2)		1138 (+/-43.0)	5138
Sampling method used	BS 6069		ISO 10849	BS ISO 12039
Analytical method used	EC *		EC *	EC *
Date of sampling	17-May-18		17-May-18	17-May-18
Sampling start time	11:10		11:10	11:10
Sampling end time	12:17		12:17	12:17
Date of analysis	17-May-18		17-May-18	17-May-18
Limit of detection	1.6		1.4	0
Continuous monitor result over sample period (% opacity)				
Annual release limit (kg)	600,000		3,000,000	-
Annual release (kg)**	-		-	-
Fuel usages over the sampling period				
Natural gas %				
Blast furnace gas %	99	99	99	99
Coke oven gas %	1	1	1	1
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: 24-Jul-2018

Form Coke DCM Misc