

RELEASES INTO AIR

Operational summary for the month October-20

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	30.3	20.8	16.1	11.6	14.0	12.1	16.4	16.4	18.0	25.9	14.8	18.4	19.3	18.8	24.8	28.8	19.0	25.9	26.9	22.9	29.5	25.8	21.2	19.0	16.4	15.4	17.8	22.7	24.6	36.0	32.6	21.4	
Weekly Mean Limit=25%							17.3							18.8							25.4							19.8					
Max Hourly	45	31	29	23	21	22	20	32	24	40	26	34	36	26	30	40	27	35	37	35	40	33	30	28	0	31	23	26	33	36	49		
Time greater than R1 (mins)	972	426	85	65	88	40	24	141	140	662	98	211	240	155	632	984	274	802	852	483	849	743	395	320	190	74	178	578	668	668	0	Total 12037	

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: 13-Jan-2021

Form Coke CEMS Smoke

RELEASES INTO AIR

Operational summary for the month November-20

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	30.3	20.8	16.1	11.6	14.0	12.1	16.4	16.4	18.0	25.9	14.8	18.4	19.3	18.8	24.8	28.8	19.0	25.9	26.9	22.9	29.5	25.8	21.2	19.0	16.4	15.4	17.8	22.7	24.6	36.0	21.0
Weekly Mean Limit=25%				23.3							16.8							22.1							23.1						
Max Hourly	45	31	29	23	21	22	20	32	24	40	26	34	36	26	30	40	27	35	37	35	40	33	30	28	0	31	23	26	33	36	
Time greater than R1 (mins)	972	426	85	65	88	40	24	141	140	662	98	211	240	155	632	984	274	802	852	483	849	743	395	320	190	74	178	578	668	668	Total 12037

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: 13-Jan-2021

Form Coke CEMS Smoke

RELEASES INTO AIR

Operational summary for the month December-20

Operator: Tata Steel UK Ltd
Location: Port Talbot Works

Release Point: A55
Permit: BL7108/AP3330BE

Obscuration (%)	Day																															Month
	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	Mean
Daily Mean	49.4	26.8	10.1	24.8	31.4	33.5	44.6	44.6	49.6	39.2	39.1	34.5	24.0	33.9	48.3	30.6	29.7	31.6	35.2	42.8	27.7	13.2	20.8	26.0	22.7	18.9	51.4	25.6	18.3	22.8	24.9	31.5
Weekly Mean Limit=25%		24.9							34.1							35.7							28.7							26.5		
Max Hourly	56	38	31	50	52	32	35	65	56	51	51	51	49	53	65	40	42	41	39	44	34	18	29	32	0	27	32	52	41	27	26	
Time greater than R1 (mins)	1218	683	42	730	1246	1280	942	1323	1427	1226	1251	1313	606	974	1413	920	652	954	1062	1288	894	234	423	617	488	379	1413	515	271	271	694	Total 26749

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: 21-Jan-2021

Form Coke CEMS Smoke

RELEASES INTO AIR

Release summary for quarter ending

31-Dec-20

Operator: Tata UK Ltd

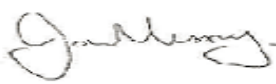
Release Point: A54

Location: Port Talbot Works

Permit: BL7108

Criteria	DLCF (%)	TLCF (%)	
Monthly average limit	10.00	1.00	
October	5.50	0.59	
November	5.97	0.55	
December	6.24	0.87	

Signed on behalf of the Operator:

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Dated: 20-Jan-2021

Form Coke DCM CF

RELEASES INTO AIR

31/12/2020

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	90 (+/-3.8)	27 (+/-1.4)	1075 (+/-42.09)	6250
Sampling method used	BS 6069	BS EN 13284	ISO 10849	BS ISO 12039
Analytical method used	EC *	Gravimetric	EC *	EC *
Date of sampling	06-Nov-20	06-Nov-20	06-Nov-20	06-Nov-20
Sampling start time	11:35	10:41	11:35	11:35
Sampling end time	14.43	16:01	10:19	10:19
Date of analysis	06-Nov-20	06-Nov-20	06-Nov-20	06-Nov-20
Limit of detection	1.6	0.6	1.4	0
Continuous monitor result over sample period (% opacity)		22		
Annual release limit (kg)	***			
Annual release (kg)**				
Fuel usages over the sampling period				
Natural gas %				
Blast furnace gas %	83	83	83	83
Coke oven gas %	17	17	17	17
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: 20-Jan-2021

Form Coke DCM Misc

RELEASES INTO AIR

Release summary for quarter ending

31-Dec-20

Operator: Tata UK Ltd

Release Point: A56

Location: Port Talbot Works

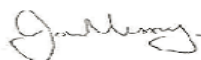
Permit: BL7108 / BL7108IM

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	2618	0.00%
February	0	3172	0.00%
March	0	2452	0.00%
April	0	3111	0.00%
May	0	2510	0.00%
June	0	2727	0.00%
July	0	2460	0.00%
August	0	3148	0.00%
September	0	2663	0.00%
October	0	3326	0.00%
November	0	2687	0.00%
December	0	2579	0.00%
Total	0	33453	0.0%

Limits 98% availability (unplanned outages) - annual.

Limits 94% availability (all outages) - annual.

Signed on behalf of the Operator:



Dated: 20-Jan-2021

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

RELEASES INTO AIR

Release summary for the year ending 31/12/2020

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

Month	Sulphur dioxide (tonnes)	Oxides of Nitrogen (tonnes)
January	46	160
February	41	152
March	41	160
April	43	151
May	42	156
June	48	148
July	33	143
August	32	154
September	33	149
October	33	165
November	32	159
December	69	168
Total	492	1865

Signed on behalf of the Operator:

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Dated: 20-Jan-2021

Form Coke Monthly SO₂ & NO_x

RELEASES INTO AIR

Release summary for quarter ending

31-Dec-20

Operator: Tata UK Ltd

Release Point: A57

Location: Port Talbot Works

Permit: BL7108

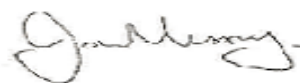
Substance	Sulphur dioxide	Oxides of Nitrogen
Permit limit (mg/m3)	2000	200
Measured conc (mg/m3) **	1988 (+/-60.6)	142 (+/-4.3)
Sampling method used	BS 6069	ISO 10849
Analytical method used	EC *	EC *
Date of sampling	23-Dec-20	23-Dec-20
Sampling start time	09:30	09:30
Sampling end time	10:30	10:30
Date of analysis	23-Dec-20	23-Dec-20
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)	—	—
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

Signed on behalf of the Operator:

Dated: 20-Jan-2021



Form DCM SO2 & NOx