

RELEASES INTO AIR

Operational Summary for the month Jul-2020

Operator: Tata Steel UK Ltd

Permit: BL7108 / RP3730BV

Location: Port Talbot Works

Release Point: A1

Day	% max throughput	% data capture	% EP availability	% UIT availability	Sinter Blend			Daily average	Particulate Matter (mg/m3)							
					Mean sulphur % w/w	Mean chloride % w/w	Mean reverts % w/w		4 hour rolling average				Hourly average			
									Maximum	Mean	Minimum	Standard deviation	Maximum	Mean	Minimum	Standard deviation
01-Jul-20	58	100%	100%	89%	0.014	No Data	16.88%	29	40	29	8	10	69	29	0	16
02-Jul-20	70	100%	100%	100%	0.014	No Data	16.88%	53	102	52	27	23	154	53	27	30
03-Jul-20	73	100%	100%	100%	0.014	No Data	17.34%	44	92	44	24	20	128	44	22	27
04-Jul-20	72	100%	100%	100%	0.014	No Data	17.34%	56	81	53	33	13	155	56	26	25
05-Jul-20	72	100%	100%	100%	0.014	No Data	17.34%	45	93	47	30	15	94	45	26	16
06-Jul-20	76	100%	100%	100%	0.014	No Data	17.34%	45	56	44	28	8	66	45	27	13
07-Jul-20	77	100%	100%	100%	0.015	0.009	17.16%	19	57	22	0	23	76	19	0	25
08-Jul-20	65	100%	100%	99%	0.015	0.009	17.16%	27	50	24	0	20	91	27	0	26
09-Jul-20	69	100%	100%	100%	0.015	0.009	17.16%	77	171	78	30	38	256	77	29	55
10-Jul-20	78	100%	100%	100%	0.015	0.009	17.16%	42	64	41	29	10	77	42	25	15
11-Jul-20	57	100%	100%	100%	0.015	0.009	17.16%	42	115	45	0	31	152	42	0	40
12-Jul-20	77	100%	100%	100%	0.017	No Data	14.83%	44	52	41	24	8	97	44	19	16
13-Jul-20	70	100%	100%	100%	0.017	No Data	14.83%	48	83	49	30	17	127	48	22	26
14-Jul-20	59	100%	100%	100%	0.017	No Data	14.83%	48	103	49	22	24	147	48	0	35
15-Jul-20	71	100%	100%	99%	0.017	No Data	14.83%	28	39	27	20	4	51	28	20	7
16-Jul-20	66	100%	100%	100%	0.015	0.006	13.70%	39	48	40	27	6	58	39	24	9
17-Jul-20	3	100%	100%	100%	0.015	0.006	13.70%	17	68	11	0	20	197	17	0	46
18-Jul-20	49	100%	100%	100%	0.015	0.006	13.70%	31	123	37	0	34	165	31	0	34
19-Jul-20	83	100%	100%	100%	0.015	0.006	13.70%	28	39	28	20	6	47	28	20	7
20-Jul-20	88	100%	100%	99%	0.014	0.006	13.24%	46	66	46	29	12	80	46	31	13
21-Jul-20	90	100%	100%	100%	0.014	0.006	13.24%	49	60	49	39	7	99	49	29	16
22-Jul-20	85	100%	100%	100%	0.014	0.006	13.24%	46	71	47	29	12	137	46	25	22
23-Jul-20	64	100%	100%	100%	0.014	0.007	10.88%	41	62	40	0	17	101	41	0	26
24-Jul-20	80	100%	100%	100%	0.014	0.007	10.88%	36	48	36	19	9	53	36	7	11
25-Jul-20	75	100%	100%	100%	0.014	0.007	10.88%	55	118	55	31	26	189	55	27	38
26-Jul-20	78	100%	100%	100%	0.014	0.007	10.88%	51	67	51	37	8	79	51	32	13
27-Jul-20	79	100%	100%	97%	0.014	0.009	10.19%	59	86	57	39	15	100	59	37	22
28-Jul-20	76	100%	100%	97%	0.014	0.009	10.19%	68	104	63	48	13	239	68	35	43
29-Jul-20	81	100%	100%	100%	0.014	0.009	10.19%	69	131	71	43	26	139	69	42	27
30-Jul-20	78	100%	100%	100%	0.014	0.009	10.19%	74	113	79	39	21	211	74	23	40
31-Jul-20	75	100%	100%	100%	0.014	0.009	10.19%	73	163	75	42	37	212	75	40	41
Month ave	71	100%	100%	99%	0.01	0.01	0.1	45	-	45	-	-	-	45	-	-
Month max.	90	-	-	-	0.02	0.01	0.2	77	171	-	-	-	256	-	-	-
Limit	-	-	-	-	0.06	-	-	40	-	-	-	-	-	-	-	-

Signed on behalf of the Operator

Dated 21/10/2020

Form Sinter CEMS

RELEASES INTO AIR

Operational Summary for the month Aug-2020

Operator: Tata Steel UK Ltd

Permit: BL7108 / RP3730BV

Location: Port Talbot Works

Release Point: A1

Day	% max throughput	% data capture	% EP availability	% UIT availability	Sinter Blend			Daily average	Particulate Matter (mg/m3)							
					Mean sulphur % w/w	Mean chloride % w/w	Mean reverts % w/w		4 hour rolling average				Hourly average			
									Maximum	Mean	Minimum	Standard deviation	Maximum	Mean	Minimum	Standard deviation
01-Aug-20	74	100%	100%	100%	0.014	0.006	9.78%	52	63	52	39	7	85	52	35	12
02-Aug-20	57	100%	100%	100%	0.014	0.006	9.78%	47	71	47	0	20	113	47	0	30
03-Aug-20	72	100%	100%	97%	0.014	0.006	9.78%	70	108	71	45	18	151	70	44	29
04-Aug-20	73	100%	100%	95%	0.015	#N/A	9.74%	48	64	48	33	9	89	48	30	14
05-Aug-20	76	100%	100%	100%	0.015	#N/A	9.74%	52	69	48	33	10	120	52	33	20
06-Aug-20	73	100%	100%	100%	0.015	#N/A	9.74%	56	74	56	33	11	142	56	0	26
07-Aug-20	75	100%	100%	100%	0.015	#N/A	9.74%	33	112	37	0	42	169	33	0	48
08-Aug-20	71	100%	100%	100%	0.014	0.005	11.39%	28	53	25	0	21	66	28	0	24
09-Aug-20	78	100%	100%	100%	0.014	0.005	11.39%	55	82	54	40	11	111	55	39	18
10-Aug-20	75	100%	100%	100%	0.014	0.005	11.39%	67	108	63	45	16	208	67	43	34
11-Aug-20	11	100%	100%	99%	0.017	0.006	12.72%	32	105	36	0	41	175	32	0	46
12-Aug-20	41	100%	100%	99%	0.017	0.006	12.72%	49	157	50	4	46	243	49	0	58
13-Aug-20	74	100%	100%	100%	0.017	0.006	12.72%	35	45	34	29	4	72	35	26	9
14-Aug-20	73	100%	100%	100%	0.017	0.006	12.72%	42	48	41	32	5	65	42	26	10
15-Aug-20	74	100%	100%	100%	0.017	0.006	12.72%	52	80	52	38	13	121	52	29	21
16-Aug-20	74	100%	100%	100%	0.018	0.008	11.05%	50	77	50	37	12	109	50	32	18
17-Aug-20	5	100%	100%	100%	0.018	0.008	11.05%	3	52	6	0	14	65	3	0	13
18-Aug-20	4	100%	100%	100%	0.018	0.008	11.05%	20	107	18	0	38	216	20	0	59
19-Aug-20	12	100%	100%	100%	0.018	0.008	11.05%	27	75	26	0	22	170	26	0	37
20-Aug-20	65	100%	100%	100%	0.018	0.008	11.05%	30	93	31	4	28	183	30	2	40
21-Aug-20	71	100%	100%	100%	0.018	0.008	11.05%	30	4	4	2	1	4	3	1	1
22-Aug-20	59	100%	100%	100%	0.018	0.008	11.05%	31	105	24	2	36	134	31	1	46
23-Aug-20	76	100%	100%	100%	0.020	#N/A	12.07%	33	120	101	86	11	131	101	76	14
24-Aug-20	74	100%	100%	100%	0.020	#N/A	12.07%	34	145	114	101	14	189	114	97	21
25-Aug-20	60	100%	100%	100%	0.020	#N/A	12.07%	35	128	93	61	19	209	91	26	45
26-Aug-20	73	100%	100%	100%	0.020	#N/A	12.07%	37	145	81	34	39	178	77	29	44
27-Aug-20	70	100%	100%	100%	0.019	0.006	12.68%	37	59	35	26	8	79	36	21	13
28-Aug-20	45	100%	100%	100%	0.019	0.006	12.68%	37	66	34	0	20	119	32	0	33
29-Aug-20	76	100%	100%	100%	0.019	0.006	12.68%	40	41	29	19	7	53	29	18	9
30-Aug-20	72	100%	100%	100%	0.019	0.006	12.68%	41	48	38	28	7	97	39	24	16
31-Aug-20	74	100%	100%	100%	0.019	#N/A	13.00%	42	53	37	28	7	58	36	26	7
Month ave	62	100%	100%	100%	0.02	#N/A	0.1	40	-	46	-	-	-	46	-	-
Month max.	78	-	-	-	0.02	#N/A	0.1	70	157	-	-	-	243	-	-	-
Limit	-	-	-	-	0.06	-	-	40	-	-	-	-	-	-	-	-

Signed on behalf of the Operator

Dated 21/10/2020

Form Sinter CEMS

RELEASES INTO AIR

Operational Summary for the month Sep-2020

Operator: Tata Steel UK Ltd

Permit: BL7108 / RP3730BV

Location: Port Talbot Works

Release Point: A1

Day	% max throughput	% data capture	% EP availability	% UIT availability	Sinter Blend			Daily average	Particulate Matter (mg/m3)							
					Mean sulphur % w/w	Mean chloride % w/w	Mean reverts % w/w		4 hour rolling average				Hourly average			
									Maximum	Mean	Minimum	Standard deviation	Maximum	Mean	Minimum	Standard deviation
01-Sep-20	68	100%	100%	97%	0.019	#N/A	13.00%	37	51	39	22	6	75	37	1	15
02-Sep-20	14	100%	100%	99%	0.019	#N/A	13.00%	51	115	52	0	30	202	51	0	57
03-Sep-20	70	100%	100%	100%	0.019	#N/A	13.00%	46	80	44	0	22	137	46	0	30
04-Sep-20	75	100%	100%	100%	0.018	0.005	13.12%	38	49	37	27	7	84	38	24	14
05-Sep-20	75	100%	100%	100%	0.018	0.005	13.12%	33	51	33	23	8	84	33	20	15
06-Sep-20	73	100%	100%	100%	0.018	0.005	13.12%	32	55	33	22	11	71	32	19	13
07-Sep-20	68	100%	100%	100%	0.018	0.005	13.12%	12	45	14	0	15	41	12	0	15
08-Sep-20	35	100%	100%	100%	0.019	#N/A	10.71%	17	63	14	0	23	154	17	0	37
09-Sep-20	78	100%	100%	99%	0.019	#N/A	10.71%	31	50	32	24	6	47	31	15	8
10-Sep-20	73	100%	100%	100%	0.019	#N/A	10.71%	38	71	38	26	14	103	38	22	18
11-Sep-20	49	100%	100%	100%	0.019	#N/A	10.71%	50	123	49	0	35	183	50	0	46
12-Sep-20	74	100%	100%	100%	0.019	0.002	10.95%	36	60	37	24	11	75	36	21	15
13-Sep-20	75	100%	100%	100%	0.019	0.002	10.95%	44	59	43	30	8	66	44	29	11
14-Sep-20	71	100%	100%	100%	0.019	0.002	10.95%	48	63	48	30	9	84	48	27	16
15-Sep-20	56	100%	100%	100%	0.019	0.002	10.95%	33	69	35	0	20	92	33	0	27
16-Sep-20	75	100%	100%	100%	0.017	0.003	11.04%	37	52	37	28	7	62	37	22	11
17-Sep-20	72	100%	100%	100%	0.017	0.003	11.04%	43	70	42	30	12	95	43	27	17
18-Sep-20	73	100%	100%	100%	0.017	0.003	11.04%	44	58	44	34	7	79	44	11	15
19-Sep-20	62	100%	100%	97%	0.017	0.003	11.04%	43	73	45	24	12	123	45	1	25
20-Sep-20	79	100%	100%	100%	0.015	0.001	9.96%	44	65	44	32	10	81	44	27	14
21-Sep-20	71	100%	100%	100%	0.015	0.001	9.96%	45	96	42	23	22	128	42	5	29
22-Sep-20	76	100%	100%	100%	0.015	0.001	9.96%	45	73	48	33	13	122	50	26	21
23-Sep-20	7	100%	100%	100%	0.015	0.001	9.96%	46	75	14	0	26	105	10	0	27
24-Sep-20	0	100%	100%	100%	0.015	0.001	9.96%	47	113	14	0	34	164	19	0	47
25-Sep-20	0	100%	100%	100%	0.015	0.001	9.96%	45	87	51	22	16	80	47	0	19
26-Sep-20	0	100%	100%	97%	0.014	#N/A	9.46%	45	79	44	31	15	150	44	22	25
27-Sep-20	0	100%	100%	86%	0.014	#N/A	9.46%	45	92	57	35	15	142	58	35	21
28-Sep-20	0	100%	100%	97%	0.014	#N/A	9.46%	45	72	51	37	10	113	53	32	20
29-Sep-20	74	100%	100%	100%	0	0	0.00%	47	89	54	39	14	107	52	34	20
30-Sep-20	35	100%	100%	100%	0	0	0.00%	48	83	42	0	30	195	41	0	50
Month ave	53	100%	100%	99%	0.02	#N/A	0.1	41	-	39	-	-	-	39	-	-
Month max.	79	-	-	-	0.02	#N/A	0.1	57	123	-	-	-	202	-	-	-
Limit	-	-	-	-	0.06	-	-	40	-	-	-	-	-	-	-	-

Signed on behalf of the Operator

Dated 20/10/2020

Form Sinter CEMS

RELEASES TO AIR

Operational summary for quarter ending 30-Sep-20

Operator: Tata Steel UK Ltd

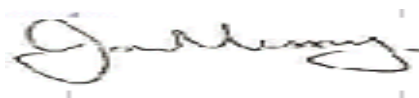
Location: Port Talbot Works

Permit: BL7108 / BL7108IM (V009)

Operational parameters: Raw materials - Gas production and usage

Release point	Month	Gas flared (GJ)	Gas vented (GJ)	Gas produced (GJ)
A12A BOS convertor 1 gas flare	Month 1	13605		
	Month 2	16942		
	Month 3	14450		
A13A BOS convertor 2 gas flare	Month 1	27209		
	Month 2	33883		
	Month 3	28901		
A33 Blast furnace gas flare stack no.1	Month 1	20729		
	Month 2	22792		
	Month 3	49956		
A33C Blast furnace gas flare stack no.2	Month 1	33492		
	Month 2	27963		
	Month 3	83899		
A33A Blast furnace gas main number 4 bleeder	Month 1		8	
	Month 2		5	
	Month 3		23	
A33B Blast furnace gas main number 5 bleeder	Month 1		101	
	Month 2		62	
	Month 3		169	
A59 Coke oven gas triple flare	Month 1	860		
	Month 2	123983		
	Month 3	48746		
Blast furnaces 4 and 5	Month 1			896052
	Month 2			1351090
	Month 3			1231875
Coke ovens	Month 1			303555
	Month 2			476553
	Month 3			473883
BOS Plant	Month 1			123435
	Month 2			180489
	Month 3			162265

Signed on behalf of the Operator



Dated 20/10/20

Form Installation gas

WASTE PRODUCTION

Operational summary for quarter ending 30-Sep-20

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

Permit: BL7108

Release point	Month	Steel slag (tonnes)	Desulph slag (tonnes)	Hazardous waste * (tonnes)	Non hazard waste * (tonnes)	BF slag (tonnes)	Oil used in coke ovens (tonnes)	
BOS	Jul	27646	600					
	Aug	41202	1320					
	Sep	22203	1040					
Iron and steel installation	Jul			1.3	204			
	Aug			5.9	266			
	Sep			1.6	275			
BF4 tapholes	Jul					35507		
	Aug					36414		
	Sep					26912		
BF5 tapholes	Jul					32401		
	Aug					30462		
	Sep					33489		
BF5	Jul							
	Aug							
	Sep							
Coke ovens	Jul						236	
	Aug						180	
	Sep						228	

* Disposal to Morfa landfill site non-hazardous and hazardous cells.

Signed on behalf of the Operator



Dated 21/10/20

Form Waste 1

RELEASES INTO AIR

Operational Summary for quarter ending 30-Sep-20

Operator: Tata Steel Strip Products UK

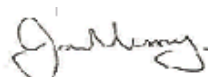
Location: Port Talbot Works

Permit: BL7108

Release Points:

PARTICULATE MATTER (DISCONTINUOUS MONITORING)		
Release Point	A6	A7
Time and date of sampling	15-Jul-20 11:20	10-Jul-20 10:27
Flowrate (Nm3/hr)	137,784	179,057
Particulate measured conc. (mg/Nm3)	2.6 (+/-0.7)	3.4 (+/-0.6)
Particulate limit (mg/Nm3)	10	10
Sampling method used	BS EN 13284	BS EN 13284
Analytical method used	Gravimetric	Gravimetric
Fuel Usage		
Natural gas (%)	0%	0%
BF gas (%)	77%	99%
Coke oven gas (%)	0%	1%
BOS (%)	23%	

Signed on behalf of the Operator



Dated

20/10/2020

Form Blast Furnace DCM Part

RELEASES INTO AIR

Operational summary for quarter ending 30-Sep-20

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

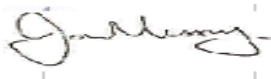
Permit: BL7108 / RP3730BV / BL7108IM (V009)

Release Points: A10A & A63

PARTICULATE MATTER (mg/Nm3) - CONTINUOUS EMISSIONS MONITORING											
Release point	Month	Limit	Maximum daily mean	Minimum daily mean	Standard deviation of daily means	Maximum hourly mean	Minimum hourly mean	Standard deviation of hour means	Monthly mean	abatement availability %	% data capture over month
A10A	Jul	15	0.8	0.3	0.7	5.2	0.4	0.9	0.5	100%	100%
	Aug	Daily mean	1.0	0.4	0.7	6.7	0.7	0.3	0.6	100%	100%
	Sep		1.8	0.3	1.3	35.9	0.7	0.7	0.9	100%	100%
A63	Jul	25									
	Aug	Hourly mean									
	Sep										

Signed on behalf of the Operator

Dated 20/10/20



Form I&S CEMS Part 3

RELEASES INTO AIR

Operational summary for quarter ending 30-Sep-20

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

Permit: BL7108

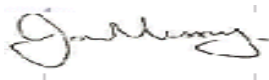
Release Points: A2, A8A, A8B, A9, A10, A14, A15 & A16

PARTICULATE MATTER (mg/Nm3) - CONTINUOUS EMISSIONS MONITORING											
Release point	Month	Limit	Maximum daily mean	Minimum daily mean	Standard deviation of daily means	Maximum hourly mean	Minimum hourly mean	Standard deviation of hour means	Monthly mean	abatement availability %	% data capture over month
A8A	Jul	15	1	1.3	0.0	1.4	1.2	0.0	1.3	100%	100%
	Aug		25	1.3	6.9	61.4	1.2	7.9	4.1	100%	100%
	Sep		10	0.9	3.2	34.8	0.6	3.8	2.6	100%	100%
A8B	Jul	15	15	4.1	2.9	29.5	1.2	4.2	5.7	100%	100%
	Aug		1	0.2	0.1	0.9	0.0	0.2	0.5	100%	100%
	Sep		1	0.2	0.2	2.6	0.0	0.2	0.4	100%	100%
A9	Jul	15	5	0.0	1.6	13.9	0.2	1.9	0.6	100%	100%
	Aug		6	0.0	1.9	11.5	0.3	2.0	0.7	100%	100%
	Sep		6	0.0	1.7	11.9	0.2	2.4	0.6	100%	100%
A2*	Jul	30	49	0.3	12.3	90.0	0.0	16.4	33.2	100%	100%
	Aug		53	2.5	19.9	78.3	0.0	19.0	23.0	100%	100%
	Sep		58	3.8	10.9	84.5	0.0	17.9	37.4	100%	100%
A10	Jul	15	3	0.0	0.7	5.2	0.0	1.2	1.6	100%	100%
	Aug		3	0.6	0.7	6.7	2.0	1.3	1.8	100%	100%
	Sep		6	0.1	1.3	35.9	0.3	6.4	1.4	100%	100%
A14	Jul	15	5	1.3	0.8	14.9	2.8	2.4	3.1	100%	100%
	Aug		4	2.0	0.4	9.6	2.6	1.8	2.6	100%	100%
	Sep		3	1.3	0.4	5.9	2.2	0.8	2.5	100%	100%
A15	Jul	15	6	1.7	1.1	13.0	2.7	2.4	3.7	100%	100%
	Aug		4	1.8	0.5	11.9	2.8	2.1	2.7	100%	100%
	Sep		5	1.4	1.1	9.1	2.3	1.7	3.1	100%	100%
A16	Jul	15	4	1.2	0.6	8.4	2.1	1.5	2.0	100%	100%
	Aug		2	0.7	0.3	4.6	1.2	0.7	1.5	100%	100%
	Sep		4	1.2	0.6	33.3	1.8	6.5	2.1	100%	100%

Signed on behalf of the Operator

Dated

20/10/20



Form I&S CEMS Parts 1 & 2

RELEASES INTO AIR

Operational summary for quarter ending 30-Sep-20

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

Permit: BL7108 / PP3738SQ

Release Points: A6, A7, A21, A22, A24 & A46

VARIOUS DISCONTINUOUS MONITORING				
Release Point	A21/A22	A6	A7	A39 # (6 Monthly)
Parameter	Chloride (as HCl)	Carbon monoxide		
Time and date of sampling	14-Sep-20 11:17	20-Jul-20 10:12	10-Jul-20 10:27	
Flowrate (Nm3/hr)	15,988	137,784	179057	
Measured conc.(mg/Nm3)	0.02 (+/-0.12)	6250	6250	
Emission limits (mg/Nm3)	5			
Sampling method used	Isokinetic	BS ISO 12039	BS ISO 12039	
Analytical method used	BSEN1911	EC *	EC *	
Fuel usages over the sampling				
Natural gas (%)		0%	0%	
BF gas (%)		77%	99%	
Coke oven gas (%)		0%	1%	
BOS Gas (%)		23%		

Signed on behalf of the Operator

Dated

20/10/20



Form I&S DCM Misc

RELEASES INTO AIR

Operational summary for quarter ending

30-Sep-20

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

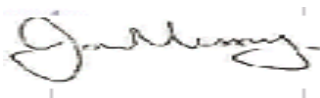
Permit: BL7108 / NP3938GZ

Release Points: A6, A7, A30, A31, A32, A34A, A34B & A39

OXIDES OF NITROGEN - NOx (DISCONTINUOUS MONITORING)							
Release Point	A6	A7				A34A	A34B
Time and date of sampling	15-Jul-20 11:10	10-Jul-20 10:21				05-Aug-20 10:05	10-Sep-20 10:00
Flowrate (Nm3/hr)	247693	132601				29389	14090
NOx measured conc.(mg/Nm3) **	78 (+/-2.6)	57 (+/-2.1)				312 (+/- 11.2)	404 (+/-15.7)
Oxygen content (%)	3.5						
NOx limits (mg/Nm3)	100	100				1800	1800
Sampling method used	ISO 10849	ISO 10849				ISO 10849	ISO 10849
Analytical method used	EC *	EC *				EC *	EC *
Continuous hourly monitoring result over the period							
Fuel usages over the sampling period							
Natural gas (%)	0%	0%				99%	100%
BF gas (%)	77%	99%					
Coke oven gas (%)	0%	1%				1%	0%
BOS Gas (%)	23%						

A39 has a 6 monthly monitoring requirement.

Signed on behalf of the Operator



Dated 20/10/20

Form I&S DCM NOx

RELEASES INTO AIR

Operational summary for quarter ending

30-Sep-20

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

Permit: BL7108 / NP3938GZ

Release Points: A6, A7, A34A & A34B

SULPHUR DIOXIDE - SO ₂ (DISCONTINUOUS MONITORING)				
Release Point	A6	A7	A34A	A34B
Time and date of sampling	15-Jul-20 11:10	10-Jul-20 10:21	05-Aug-20 10:05	10-Sep-20 10:00
Flowrate (Nm ³ /hr)	247693	132601	29389	14090
SO ₂ measured conc.(mg/Nm ³)	123.8 (+/- 4.3)	135 (+/- 4.7)	402 (+/-14.0)	7 (+/-3.6)
SO ₂ limits (mg/Nm ³)	200	200	1400	1400
Sampling method used	BS6069	BS6069	BS6069	BS6069
Analytical method used	EC *	EC *	EC *	EC *
Continuous hourly monitoring result over the period				
Fuel usages over the sampling period				
Natural gas (%)	0%	0%	99%	100%
BF gas (%)	77%	99%		
Coke oven gas (%)	0%	1%	1%	0%
BOS Gas (%)	23%			

A39 has a 6 monthly monitoring requirement

Signed on behalf of the Operator

Dated

20/10/20

Form I&S DCM SO₂

RELEASES INTO AIR

Operational summary for quarter ending

30-Sep-20

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

Permit: BL7108

Release Points: Iron plating continued

Liquid Iron Plating Operations (Iron Plating Pit)			
Date	Time	Tonnes	Reason
07/04/20	17:42	218	Metallurgy Reasons
18/07/2020	10:36:07	161	Metallurgy Reasons
18/07/2020	08:44:24	208	Metallurgy Reasons
18/07/2020	04:45:02	250	Metallurgy Reasons
18/07/2020	02:27:59	186	Metallurgy Reasons
17/07/2020	23:23:35	180	Metallurgy Reasons
16/07/2020	05:58:02	237	Metallurgy Reasons
16/07/2020	05:07:26	237	Metallurgy Reasons
13/07/2020	23:55:33	225	Metallurgy Reasons
13/07/2020	18:45:17	237	Metallurgy Reasons
27/07/2020	04:31:26	237	Metallurgy Reasons
27/07/2020	04:02:10	237	Metallurgy Reasons
25/07/2020	00:49:01	228	Metallurgy Reasons
24/07/2020	23:58:09	237	Metallurgy Reasons
23/07/2020	04:31:52	161	Metallurgy Reasons
23/07/2020	03:43:38	162	Metallurgy Reasons
18/07/2020	16:56:11	216	Metallurgy Reasons
18/07/2020	15:41:49	236	Metallurgy Reasons
18/07/2020	14:05:32	171	Metallurgy Reasons
18/07/2020	13:30:57	218	Metallurgy Reasons
29/07/2020	16:21:33	57	Metallurgy Reasons
28/07/2020	11:23:39	273	Metallurgy Reasons
28/07/2020	10:14:44	237	Metallurgy Reasons
28/07/2020	07:22:57	253	Metallurgy Reasons
28/07/2020	00:36:12	180	Metallurgy Reasons
28/07/2020	00:15:54	208	Metallurgy Reasons
27/07/2020	17:55:28	234	Metallurgy Reasons
27/07/2020	17:10:00	216	Metallurgy Reasons
27/07/2020	12:01:56	273	Metallurgy Reasons
27/07/2020	10:52:41	171	Metallurgy Reasons
08/03/20	08:34	216	Metallurgy Reasons
08/02/20	01:59	120	Metallurgy Reasons
31/07/2020	01:44:57	115	Metallurgy Reasons
30/07/2020	23:18:39	57	Metallurgy Reasons
30/07/2020	20:40:51	57	Metallurgy Reasons
30/07/2020	13:16:47	120	Metallurgy Reasons
30/07/2020	11:06:02	120	Metallurgy Reasons
29/07/2020	21:06:50	114	Metallurgy Reasons
29/07/2020	20:08:55	216	Metallurgy Reasons
29/07/2020	18:20:42	236	Metallurgy Reasons
Total		7715	

Signed on behalf of the Operator

Dated 20/10/20

Form I&S Operational 1

RELEASES INTO AIR

Operational summary for quarter ending

30-Sep-20

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

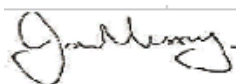
Permit: BL7108

Release Points: Iron plating continued

Liquid Iron Plating Operations (Iron Plating Pit)			
Date	Time	Tonnes	Reason
08/09/20	12:28	57	Metallurgy Reasons
08/09/20	10:28	57	Metallurgy Reasons
08/08/20	07:45	162	Metallurgy Reasons
08/08/20	06:59	225	Metallurgy Reasons
08/05/20	14:01	237	Metallurgy Reasons
08/05/20	13:34	150	Metallurgy Reasons
08/04/20	16:38	216	Metallurgy Reasons
08/04/20	15:00	273	Metallurgy Reasons
08/04/20	12:42	237	Metallurgy Reasons
08/04/20	10:51	100	Metallurgy Reasons
03/04/20	09:08	190	Metallurgy Reasons
26/08/2020	15:56:37	100	Metallurgy Reasons
26/08/2020	11:06:06	48	Metallurgy Reasons
26/08/2020	08:12:15	228	Metallurgy Reasons
25/08/2020	06:33:59	95	Metallurgy Reasons
23/08/2020	22:31:24	198	Metallurgy Reasons
23/08/2020	22:08:34	217	Metallurgy Reasons
23/08/2020	03:22:04	120	Metallurgy Reasons
23/08/2020	00:08:56	60	Metallurgy Reasons
22/08/2020	17:14:27	120	Metallurgy Reasons
22/08/2020	14:08:22	60	Metallurgy Reasons
28/08/2020	09:37:33	228	Metallurgy Reasons
27/08/2020	01:55:27	228	Metallurgy Reasons
27/08/2020	00:56:32	216	Metallurgy Reasons
26/08/2020	23:13:38	234	Metallurgy Reasons
26/08/2020	21:07:44	216	Metallurgy Reasons
26/08/2020	19:04:55	218	Metallurgy Reasons
26/08/2020	17:54:34	117	Metallurgy Reasons
26/08/2020	17:24:02	190	Metallurgy Reasons
26/08/2020	17:10:19	116	Metallurgy Reasons
26/08/2020	16:01:20	216	Metallurgy Reasons
31/08/2020	10:02:55	218	Metallurgy Reasons
31/08/2020	08:56:29	228	Metallurgy Reasons
31/08/2020	06:44:18	162	Metallurgy Reasons
30/08/2020	21:49:38	161	Metallurgy Reasons
30/08/2020	21:08:37	234	Metallurgy Reasons
Total		6132	

Signed on behalf of the Operator

Dated 20/10/20



Form I&S Operational 1

RELEASES INTO AIR

Operational summary for quarter ending

30-Sep-20

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

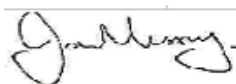
Permit: BL7108

Release Points: Iron plating continued

Liquid Iron Plating Operations (Iron Plating Pit)			
Date	Time	Tonnes	Reason
08/09/20	12:28	57	Metallurgy Reasons
08/09/20	10:28	57	Metallurgy Reasons
08/08/20	07:45	162	Metallurgy Reasons
08/08/20	06:59	225	Metallurgy Reasons
08/05/20	14:01	237	Metallurgy Reasons
08/05/20	13:34	150	Metallurgy Reasons
08/04/20	16:38	216	Metallurgy Reasons
08/04/20	15:00	273	Metallurgy Reasons
08/04/20	12:42	237	Metallurgy Reasons
08/04/20	10:51	100	Metallurgy Reasons
03/04/20	09:08	190	Metallurgy Reasons
26/08/2020	15:56:37	100	Metallurgy Reasons
26/08/2020	11:06:06	48	Metallurgy Reasons
26/08/2020	08:12:15	228	Metallurgy Reasons
25/08/2020	06:33:59	95	Metallurgy Reasons
23/08/2020	22:31:24	198	Metallurgy Reasons
23/08/2020	22:08:34	217	Metallurgy Reasons
23/08/2020	03:22:04	120	Metallurgy Reasons
23/08/2020	00:08:56	60	Metallurgy Reasons
22/08/2020	17:14:27	120	Metallurgy Reasons
22/08/2020	14:08:22	60	Metallurgy Reasons
28/08/2020	09:37:33	228	Metallurgy Reasons
27/08/2020	01:55:27	228	Metallurgy Reasons
27/08/2020	00:56:32	216	Metallurgy Reasons
26/08/2020	23:13:38	234	Metallurgy Reasons
26/08/2020	21:07:44	216	Metallurgy Reasons
26/08/2020	19:04:55	218	Metallurgy Reasons
26/08/2020	17:54:34	117	Metallurgy Reasons
26/08/2020	17:24:02	190	Metallurgy Reasons
26/08/2020	17:10:19	116	Metallurgy Reasons
26/08/2020	16:01:20	216	Metallurgy Reasons
31/08/2020	10:02:55	218	Metallurgy Reasons
31/08/2020	08:56:29	228	Metallurgy Reasons
31/08/2020	06:44:18	162	Metallurgy Reasons
30/08/2020	21:49:38	161	Metallurgy Reasons
30/08/2020	21:08:37	234	Metallurgy Reasons
Total		6132	

Signed on behalf of the Operator

Dated 20/10/20



Form I&S Operational 1

RELEASES INTO AIR

Operational summary for quarter ending

30-Sep-20

Operator: Port Talbot Works

Location: Port Talbot Works

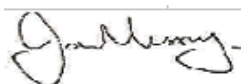
Permit: BL7108

Release Points: Iron plating continued

Liquid Iron Plating Operations (Iron Plating Pit)			
Date	Time	Tonnes	Reason
22/09/2020	18:56:09	2.183	Metallurgy Reasons
19/09/2020	14:24:41	2.241	Metallurgy Reasons
19/09/2020	12:48:43	2.899	Metallurgy Reasons
19/09/2020	12:27:58	1.796	Metallurgy Reasons
19/09/2020	11:33:16	2.634	Metallurgy Reasons
19/09/2020	05:10:17	2.08	Metallurgy Reasons
19/09/2020	04:40:50	2.135	Metallurgy Reasons
18/09/2020	17:42:57	3.735	Metallurgy Reasons
18/09/2020	12:38:51	3.058	Metallurgy Reasons
24/09/2020	16:27:44	2.087	Metallurgy Reasons
24/09/2020	10:26:50	1.909	Metallurgy Reasons
24/09/2020	09:21:14	2.033	Metallurgy Reasons
23/09/2020	15:19:40	1.8	Metallurgy Reasons
23/09/2020	13:08:09	2.475	Metallurgy Reasons
23/09/2020	12:03:38	2.511	Metallurgy Reasons
23/09/2020	10:19:29	2.722	Metallurgy Reasons
23/09/2020	02:32:46	2.265	Metallurgy Reasons
23/09/2020	02:07:31	1.894	Metallurgy Reasons
22/09/2020	20:44:39	2.076	Metallurgy Reasons
25/09/2020	06:31:38	1.992	Metallurgy Reasons
25/09/2020	05:27:03	2.24	Metallurgy Reasons
25/09/2020	04:26:28	2.529	Metallurgy Reasons
25/09/2020	04:20:29	1.992	Metallurgy Reasons
25/09/2020	03:08:25	2.74	Metallurgy Reasons
25/09/2020	01:25:55	1.786	Metallurgy Reasons
24/09/2020	19:55:01	2.484	Metallurgy Reasons
24/09/2020	18:43:52	2.061	Metallurgy Reasons
24/09/2020	18:28:49	2.498	Metallurgy Reasons
24/09/2020	17:48:15	2.061	Metallurgy Reasons
29/09/2020	18:21:04	2.357	Metallurgy Reasons
28/09/2020	11:43:42	2.933	Metallurgy Reasons
28/09/2020	11:05:14	2.933	Metallurgy Reasons
28/09/2020	10:12:55	2.933	Metallurgy Reasons
28/09/2020	09:25:59	2.404	Metallurgy Reasons
28/09/2020	02:37:53	2.474	Metallurgy Reasons
28/09/2020	02:09:58	2.599	Metallurgy Reasons
Total		86	

Signed on behalf of the Operator

Dated 20/10/20



Form I&S Operational 1

Operational summary for quarter ending 30-Sep-20

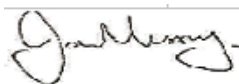
Release Points: Iron plating continued

Form I&S Operational 1

Liquid Iron Plating Operations (Iron Plating Pit)			
Date	Time	Tonnes	Reason
07/04/20	17:11	230	Metallurgy Reasons
07/03/20	21:11	180	Metallurgy Reasons
07/03/20	10:28	161	Metallurgy Reasons
07/03/20	10:01	225	Metallurgy Reasons
07/03/20	06:30	217	Metallurgy Reasons
07/03/20	05:15	76	Metallurgy Reasons
07/10/20	07:32	208	Metallurgy Reasons
07/08/20	10:59	240	Metallurgy Reasons
07/08/20	10:16	259	Metallurgy Reasons
07/08/20	07:28	228	Metallurgy Reasons
07/08/20	06:02	220	Metallurgy Reasons
07/07/20	21:50	237	Metallurgy Reasons
07/07/20	21:41	171	Metallurgy Reasons
07/07/20	15:00	247	Metallurgy Reasons
07/04/20	18:46	216	Metallurgy Reasons
Total		3115	

Signed on behalf of the Operator

Dated 20/10/20



Form I&S Operational 1

RELEASES INTO AIR

Operational summary for quarter ending

30-Sep-20

Operator: Port Talbot Works

Location: Port Talbot Works

Permit: BL7108 / RP3730BV

	NOx (tonnes)	Lead (tonnes)	PM10 (tonnes)	CO2 (k tonnes)
Morfa	417			
Iron & Steel	621	1.0	307	1264
Total	1038	1.0	307	1264

Signed on behalf of the Operator

Dated 20/10/20



Form KPI

RELEASES INTO AIR

Operational summary for quarter ending

30-Sep-20

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

Permit: BL7108 / NP3938GZ

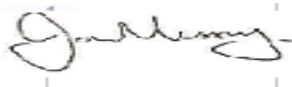
Release Point: A62

PARTICULATE MATTER (mg/Nm3) - CONTINUOUS EMISSIONS MONITORING									
Release point	Month	Maximum daily mean	Monthly mean	Date & time of maximum value	Minimum daily mean	Standard deviation of daily means	% valid monitor response	Fuel weighted monthly limit	% Abnormal conditons
A62 Boiler 3	Jul	5.1	2.2	02-Jul-20	1.1	0.9	100.0%	9.5	88.0%
	Aug	4.4	2.2	02-Aug-20	0.7	1.1	100.0%	8.7	70.0%
	Sep	5.8	2.3	05-Sep-20	0.9	1.4	100.0%	9.1	79.0%
SULPHUR DIOXIDE (mg/Nm3) - CONTINUOUS EMISSIONS MONITORING									
Release point	Month	Maximum daily mean	Monthly mean	Date & time of maximum value	Minimum daily mean	Standard deviation of daily means	% valid monitor response	Fuel weighted monthly limit	% Abnormal conditons
A62 Boiler 3	Jul	33.2	28.4	14-Jul-20	20.6	8.3	100.0%	182.1	88.0%
	Aug	41.4	27.6	20-Aug-20	22.1	4.0	100.0%	156.2	70.0%
	Sep	40.5	29.2	03-Sep-20	23.3	4.0	100.0%	171.1	79.0%
OXIDES OF NITROGEN (mg/Nm3) - CONTINUOUS EMISSIONS MONITORING									
Release point	Month	Maximum daily mean	Monthly mean	Date & time of maximum value	Minimum daily mean	Standard deviation of daily means	% valid monitor response	Fuel weighted monthly limit	% Abnormal conditons
A62 Boiler 3	Jul	138.0	60.8	15-Jul-20	11.4	30.0	100.0%	189.2	88.0%
	Aug	157.9	78.8	15-Aug-20	12.7	42.8	100.0%	173.6	70.0%
	Sep	156.4	60.3	02-Sep-20	20.9	33.0	100.0%	182.6	79.0%

Signed on behalf of the

Operator Dated

20/10/20



Form LCPD CEM A62

RELEASES INTO AIR

Operational summary for quarter ending

30-Sep-20

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

Permit: BL7108

Release Points: A50A, A50B, A51, A52A, A52B & A53

PARTICULATE MATTER (mg/Nm3) - CONTINUOUS EMISSIONS MONITORING							
Release point	Month	Monthly mean LIMIT=20	Maximum hourly mean	Date & time of maximum value	Minimum hourly mean	Standard deviation of hourly means	% data capture over month
A50A & A50B Service Boilers 4&5	Jul	5.1	22.0	30/07/20 20:00	1.5	2.3	100%
	Aug	7.4	36.6	26/08/20 05:00	1.3	3.7	100%
	Sep	6.8	28.7	26/09/20 20:00	2.1	2.9	100%
A51 Boiler A5	Jul	7.1	57.2	22/07/20 19:00	4.1	4.4	100%
	Aug	3.5	9.9	10/08/20 22:00	1.5	0.8	100%
	Sep	3.0	57.2	02/09/20 04:00	0.4	2.5	100%
A52A Boiler 6	Jul	1.5	3.7	01/07/20 05:00	1.1	0.2	100%
	Aug	1.5	11.6	25/08/20 17:00	1.0	1.0	100%
	Sep	1.9	13.4	13/06/20 14:00	1.3	1.6	100%
A52B Boiler 7	Jul	N/D					0%
	Aug	N/D					0%
	Sep	N/D					0%
A53 Mitchell	Jul	2.6	121.3	29/07/20 19:00	0.5	6.6	100%
	Aug	2.4	16.6	25/08/20 03:00	0.9	1.8	100%
	Sep	2.5	17.7	03/09/20 11:00	0.9	1.7	100%

Signed on behalf of the Operator

Dated

20/10/20

Form LCPD CEM Parts

Operational summary for quarter ending 30-Sep-20

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

Permit: BL7108

Release Points: A50A, A50B, A51, A52A, A52B, A53 & A62

[illegible]

Signed on behalf of the Operator

Dated 20/10/20

Form LCPD CEMS LOG

RELEASES INTO AIR

Operational summary for quarter ending

30-Sep-20

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

Permit: BL7108 / BL7108IM (V009)

Release Points: A50, A52A & A52B

OXIDES OF NITROGEN (mg/Nm3) - CONTINUOUS EMISSIONS MONITORING							
Release point	Month	Month mean LIMITS: BFG/COG=300	Maximum hourly mean	Date & time of maximum value	Minimum hourly mean	Standard deviation of hourly means	% data capture over month
A52A Boiler 6	Jul	151.2	321.2	29/07/2020 17:00	2.1	61.5	100%
	Aug	180.5	475.2	25/08/2020 14:00	1.5	108.2	100%
	Sep	177.9	604.9	05/05/2020 20:00	1.1	157.9	100%
A52B Boiler 7	Jul	N/D					0%
	Aug	N/D					0%
	Sep	N/D					0%
A50A & A50B Service Boilers	Jul	100.5	133.6	22/07/2020 11:00	92.0	6.1	33%
	Aug	103.9	136.8	20/08/2020 10:00	86.1	9.9	100%
	Sep	111.5	151.6	02/09/2020 20:00	86.6	13.8	100%
SULPHUR DIOXIDE (mg/Nm3) - CONTINUOUS EMISSIONS MONITORING							
Release point	Month	Month mean LIMITS: BFG/COG=500	Maximum hourly mean	Date & time of maximum value	Minimum hourly mean	Standard deviation of hourly means	% data capture over month
A52A Boiler 6	Jul	135.7	276.1	25/07/2020 21:00	37.3	38.2	100%
	Aug	181.3	830.5	25/08/2020 14:00	0.5	98.6	97%
	Sep	297.0	931.2	24/06/2020 15:00	57.5	179.6	100%
A52B Boiler 7	Jul	N/D					0%
	Aug	N/D					0%
	Sep	N/D					0%
A50A & A50B Service Boilers	Jul	307.7	979.2	22/07/2020 11:00	111.4	162.6	33%
	Aug	350.7	1001.4	28/08/2020 15:00	110.2	211.1	100%
	Sep	580.1	1649.5	03/09/2020 15:00	114.0	322.2	100%

Signed on behalf of the Operator

Dated

20/10/20

Form LCPD CEMS SO2 & NOx

RELEASES INTO AIR

Operational summary for quarter ending

30-Sep-20

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

Permit: BL7108

Release Points: A50A/A50B, A51, A52A, A52B, A53 & A62

OXIDES OF NITROGEN - NO _x (DISCONTINUOUS MONITORING)						
Release Point	A50A&B Service 4&5	A51 A5	A52A No.6	A52B No.7	A53 Mitchell	A62 No.3
Time and date of sampling		08-Sep-20 13:09			24-Sep-20 09:37	
Flowrate (Nm ³ /hr)		9307			21035	
NO _x measured** conc. (mg/Nm ³)		93 (+/-3.5)			31 (+/-1.9)	
NO _x limit (mg/NM ³)		300 BFG/COG			300 BFG/COG	
Sampling method used		ISO 10849			ISO 10849	
Analytical method used		EC*			EC*	
Continuous hourly monitoring result over the period						
Fuel usages over the sampling period						
Natural gas (%)		0%			0%	
BF gas (%)		84%			96%	
Coke oven gas (%)		16%			6%	
Heavy fuel oil (%)		0%			0%	

A52A, A52B and A62 (Boiler 3) have an annual monitoring requirement. A50A/A50B has a six monthly monitoring requirement.

Signed on behalf of the Operator



Dated 20/10/20

Form LCPD DCM NO_x

RELEASES INTO AIR

Operational summary for quarter ending

30-Sep-20

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

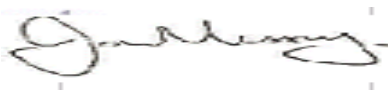
Permit: BL7108 / NP3938GZ

Release Points: A50A/A50B, A51, A52A, A52B, A53 & A62

SULPHUR DIOXIDE - SO ₂ (DISCONTINUOUS MONITORING)						
Release Point	A50A&B Service 4&5	A51 A5	A52A No.6	A52B No.7	A53 Mitchell	A62 No.3
Time and date of sampling		08-Sep-20 13:09			24-Sep-20 09:37	
Flowrate (Nm ³ /hr)		9307			21035	
SO ₂ measured conc. (mg/Nm ³)		90 (+/- 3.8)			58 (+/- 3.8)	
SO ₂ limit (mg/NM ³)		800 BFG/COG			800 BFG/COG	
Sampling method used		BS 6069			BS 6069	
Analytical method used		EC*			EC*	
Continuous hourly monitoring result over the period						
Fuel usages over the sampling period						
Natural gas (%)		0%			0%	
BF gas (%)		84%			93%	
Coke oven gas (%)		16%			7%	
Heavy fuel oil (%)		0%			0%	

A52A, A52B and A62 (Boiler 3) have an annual monitoring requirement. A50A/A50B have a six monthly monitoring requirement.

Signed on behalf of the Operator



Dated

20/10/20

Form LCPD DCM SO₂

RELEASES INTO AIR

Operational summary for quarter ending

30-Sep-20

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

Permit: BL7108

Release Points: A50A, A50B, A51, A52A, A52B, A53 & A62

Release point	Month	Fuel oil (GJ)	Coke oven gas (GJ)	Blast furnace gas (GJ)	Natural gas (GJ)	BOS gas (GJ)	All fuels (GJ)
A50A Service Boiler 4	J	0	40259	36245	2811		79315
	A	0	29881	33654	7049		70584
	S	0	43606	21179	4602		69387
A50B Service Boiler 5	J	0	25986	38166	5653		69804
	A	0	19585	41210	9231		70026
	S	0	28494	26176	6940		61610
A51 Boiler A5	J	0	2711	15994	518	1	19223
	A	0	7974	61496	2178	162	71810
	S	0	9931	51617	2045	1215	64808
A52A Boiler 6	J	479	83102	241189	16959	26797	368526
	A	1525	65944	238679	34734	33407	374288
	S	7168	44238	120616	24122	25135	221280
A52B Boiler 7	J	773	61458	241728	13631	26888	344477
	A	1624	48973	239632	29357	33509	353093
	S	9120	64889	193498	26082	41634	335224
A53 Mitchell	J	212	6632	116897	1639		125380
	A	34	11162	69395	3372		83963
	S	516	7027	107993	3714		119249
A62 Boiler 3	J			144989	11468	502	156960
	A			129363	21995	460	151818
	S			148605	16231	3486	168322
Total	J	1464	220148	835207	52678	54188	1163685
	A	3182	183518	813428	107916	67537	1175582
	S	16805	198185	669685	83736	71470	1039881

Signed on behalf of the Operator

Dated 20/10/20

Form LCPD Fuels

RELEASES INTO AIR

Operational summary for quarter ending

30-Sep-20

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

Permit: BL7108 / AP3330BE

Release Points: A50A, A50B, A51, A52A, A52B, A53 & A62

Month	Sulphur Dioxide (tonnes)							Oxides of Nitrogen (tonnes)							Particulates (tonnes)						
	A50A	A50B	A51	A52A	A52B	A53	A62	A50A	A50B	A51	A52A	A52B	A53	A62	A50A	A50B	A51	A52A	A52B	A53	A62
January	7.0	7.0	3.4	34.0	34.0	4.9	2.6	3.5	3.5	1.7	12.9	12.9	4.0	3.6	0.12	0.12	0.03	0.2	0.2	0.1	0.20
February	8.6	8.6	3.0	25.9	25.9	2.3	2.4	5.2	5.2	1.6	13.4	13.4	2.9	3.5	0.18	0.18	0.05	0.2	0.2	0.1	0.22
March	11.1	11.1	4.1	33.6	33.6	4.7	2.5	6.5	6.5	1.9	12.2	12.2	3.8	3.3	0.17	0.17	0.07	0.3	0.3	0.2	0.21
April	7.6	7.6	2.91	47.6	21.6	3.2	2.5	4.2	4.2	1.6	12.0	14.7	2.7	3.2	0.1	0.1	0.05	0.3	0.3	0.1	0.16
May	12.9	12.9	2.82	61.3	22.8	3.6	1.8	6.7	6.7	1.5	15.1	14.6	2.9	2.0	0.2	0.2	0.06	0.3	0.3	0.1	0.13
June	9.7	9.7	0.78	44.2	22.2	4.4	2.0	5.5	5.5	0.3	15.6	14.2	3.1	2.9	0.1	0.1	0.00	0.3	0.3	0.1	0.13
July	9.0	9.0	1.45	40.9	10.1	4.2	2.8	5.8	5.8	0.5	15.6	12.6	3.3	3.7	0.1	0.1	0.06	0.2	0.2	0.1	0.16
August	11.6	11.6	3.65	47.3	15.8	2.0	2.6	5.6	5.6	1.9	22.0	12.8	2.0	3.7	0.1	0.1	0.10	0.2	0.2	0.1	0.14
September	12.7	12.7	4.54	*	*	4.2	3.0	4.9	4.9	1.8	*	*	3.2	3.8	0.1	0.1	0.08	*	*	0.1	0.16
October																					
November																					
December																					
Totals	90	90	27	335	186	33	22	48	48	13	119	107	28	30	1.3	1.3	0.5	2.0	2.1	0.9	1.5
	784							392							9						
	Service		A5	Margam C		Mit	3	Service		A5	Mgm C		Mit	3	Service		A5	Mgm C		Mit	3
Boiler Plant Totals	181		27	521		33	22	95		13	226		28	30	3		0	40		1	1
NERP Annual Limit (T)	161		79	675		157		192		115	923		231		10		4	4		8	

*Due to Boiler 6 CEMS outage we are not able to model mass release yet for 6 & 7

Signed on behalf of the Operator

Dated 23/10/20

Form LCPD Monthly 1

RELEASES INTO AIR

Operational summary for quarter ending

30-Sep-20

Operator: Tata Steel UK Ltd

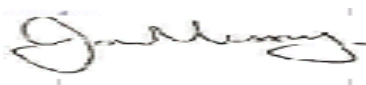
Location: Port Talbot Works

Permit: BL7108

Release Points: A50, A51, A52A, A52B, A53 & A62

Operating details	BOILERS						
	A50A Service 4	A50B Service 5	A51 A5	A52A No.6	A52B No.7	A53 Mitchell	A62 No.3
Operating time (hours)	2441	2448	1928	1955	2448	2022	2404
Mean load (%MCR)	43.8	40.1	44.9	90.7	77.6	55.7	55.7
Mean flue gas flow (Nm ³ /hr)	65083	97575	42247	214937	250456	96061	155264
Heavy Fuel Oil							
Average net CV (GJ/t)	40.9	40.9	40.9	40.9	40.9	40.9	
Max. sulphur content (g/Kg)	10	10	10	10	10	10	
Max. asphaltene content (g/Kg)	46	46	46	46	46	46	
Ave.%wt Sulphur	0.995	0.995	0.995	0.995	0.995	0.995	
NOx factor	0.1	0.1	0.1	0.1	0.1	0.1	
Coke Oven Gas							
Average net CV (GJ/km ³)	17.46	17.46	17.46	17.46	17.46	17.46	
Sulphur content (g/m ³)	3.56	3.56	3.56	3.56	3.56	3.56	
NOx factor	0.04	0.04	0.04	0.04	0.04	0.04	
Blast Furnace Gas							
Average net CV (GJ/km ³)	3.66	3.66	3.66	3.66	3.66	3.66	3.66
Sulphur content (g/Nm ³)	0.024	0.024	0.024	0.024	0.024	0.024	0.024
NOx factor	0.025	0.025	0.025	0.025	0.025	0.025	0.025
Natural Gas							
Average net CV (GJ/km ³)	37.36	37.36	37.36	37.36	37.36	37.36	37.36
NOx factor	0.04	0.04	0.04	0.04	0.04	0.04	0.04

Signed on behalf of the Operator



Dated

20/10/20

RELEASES INTO AIR

Operational summary for quarter ending

30-Sep-20

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

Permit: BL7108 / NP3938GZ

Release Point: A1

Substance	Particulates	Sulphur Dioxide	Oxides of Nitrogen	Carbon Monoxide
Permit limit (mg/Nm3)	40	500	500	
Measured conc. according to condition 10.1.3b	88 (+/- 9.9)	333 (+/- 36.6)	182 (+/- 20.1)	6250 (+/- 743.2)
Measured oxygen content (%)	16.6	16.7	16.7	16.7
Measured conc. according to condition 10.1.3a (17%O2)	80	309	169	5804
Sampling method used	BS EN 13284	BS 6069	ISO 10849	BS ISO 12039
Analytical method used	Gravimetric	*EC	*EC	*EC
Date of sampling	04-Sep-20	04-Sep-20	04-Sep-20	04-Sep-20
Sample start time	10:17 -	10:18	10:18	10:18
Sample end time	12:30	11:18	11:18	11:18
Sample duration (mins)	60	60	60	60
Limit of detection	0.96	1.6	1.4	0.0
Continuous monitor result over the sampling period	38.3			
Process status at the time of sampling				
Mean sulphur content of sinter blend in use (%)	0.018	0.018	0.018	0.018
Reverts content of sinter blend in use (%)	0.0050	0.0050	0.0050	0.0050
Mean chloride content of sinter blend in use (%)	0.13	0.13	0.13	0.13
Throughput during sampling period (% of maximum)	60.0	60.0	60.0	60.0

Signed on behalf of the Operator



Dated

20/10/20

Operational summary for quarter ending 30-Sep-20

Release Points: A4A, A5A, & iron plating

[illegible]

RELEASES INTO AIR

Operational summary for quarter ending

Operator: Tata Steel UK Ltd
Location: Port Talbot Works
Permit: BL7108 / RP3730BV

Iron Ore Sintering - Record of strand stoppages > 30 minutes				
Date	Time	Duration (mins)	Planned/Unplanned	Reason
08-Aug-20	11:36:00	1h 53m	Electrical	loss of supply to strand plc
11-Aug-20	04:50:00	18h 0m	Planned Maintenance	planned maintenance to replace cooler trays
12-Aug-20	07:45:00	35m	Mechanical	1031 Con tracked over
12-Aug-20	08:20:00	39m	Mechanical	Issues with s/west screen longi bolts cussets welded to underside of screen delay tied in with hearth layer, delay time split
12-Aug-20	09:05:00	5h 28m	Mechanical	Tray 29 derailed as tray came out of dip rail, see below.
12-Aug-20	14:47:00	31m	Mechanical	Gapping cooler
12-Aug-20	15:45:00	1h 57m	Mechanical	Trays 3/7 inner guide rollers, worked also carried tray No29
19-Aug-20	20:32:00	3h 24m	Mechanical	Delay to fault find cooler jamming, unable to move forward or reverse
19-Aug-20	00:59:00	22m	Mechanical	Delay to gap cooler for repairs
19-Aug-20	01:53:00	2h 2m	Mechanical	delay to trim front of awei 40 and pack out rail local to dead plate
17-Aug-20	18:00:00	48h 32m	Planned Maintenance	planned maintenance to carry out repairs to ignition hood
19-Aug-20	06:07:00	4h 38m	Mechanical	Strand on stop due cooler stopping, tray 40 in area of previous stoppage, on inspection plates welded to rail had come off. Attempted to move cooler with no joy, side walls removed either side of axle, dead seal plate found to have peeled back in area of
19-Aug-20	11:20:00	13h 51m	Mechanical	Repairs to tray No40 axle, on completion on completion cooler monitored over dead plate, plant brought back in after 4hr hood warm up cycle
21-Aug-20	12:08:00	21m	Operational	Check 1022 joint, 1028 and cooler tray 40
21-Aug-20	17:10:00	1h 30m	Mechanical	Sheer pin u/s replaced x 2 opened end cover up found chute above ddr blocked, cleaned chain run in test for short period, all boxed up. Chain conveyor took around 20 mins to clear not a lot of material in chamber
22-Aug-20	04:06:00	1h 2m	Mechanical	tray 29 Had come off outside rail just passed dead seal, managed to lift axle and drive wheel back on in test.
22-Aug-20	11:09:00	51m	Mechanical	Cooler de-railed
22-Aug-20	13:00:00	41m	Mechanical	Gapping trays
22-Aug-20	14:15:00	2h 35m	Mechanical	Tightening of holding down bolts on knuckle and welding ambush blocks
25-Aug-20	06:23:00	19m	Operational	loss of tempos lumps through roll feeder and saturated material
27-Aug-20	00:37:00	54m	Electrical	South remote I/O comms. failure in vsd panel and oil pump aux. panel
27-Aug-20	09:37:00	19m	Mechanical	Stop to check 1022 con joint along with drive coupling inspection.
28-Aug-20	05:55:00	9h 30m	Mechanical	Mixer base plate repairs, 1022 drive repairs.
29-Aug-20	07:00:00	23m	Mechanical	Southwest support roller, east bearing >55°C
29-Aug-20	07:58:00	31m	Mechanical	R/F feeder cover plating had come loose
30-Aug-20	14:25:00	35m	Mechanical	Tracked east and hit limit
01-Sep-20	21:43:00	2h 34m	Electrical	Comms issue
02-Sep-20	03:20:00	16h 49m	Planned Maintenance	16hr PM
02-Sep-20	20:53:00	4h 9m	Mechanical	Delay to replace section of rail on cooler
07-Sep-20	11:10:00	2h 0m	Mechanical	Delay to split coupling of motor on Mixer
08-Sep-20	19:07:00	25m	Electrical	Underspeed fault
08-Sep-20	20:13:00	1h 27m	Mechanical	Found wear plate jammed
08-Sep-20	07:00:00	10h 43m	Planned Maintenance	00:00
15-Sep-20	02:02:00	17m	Mechanical	Cold crusher stopped 3 x belts had jumped, caught around under speed, around same cut 7xbelts left on drive.
15-Sep-20	11:30:00	5h 30m	Electrical	Lodge in for checks on No2 field
17-Sep-20	09:34:00	1h 8m	Mechanical	Stringer cut off conv. Mesh found in chute from mixer, also freed up scrapper as head end buried.
18-Sep-20	11:01:00	1h 15m	Mechanical	structural work ready for stop
19-Sep-20	11:00:00	1h 32m	Mechanical	North drive down to 1 drive band

Signed on behalf of the Operator

Dated

20/10/20

Form Sinter Operational

Form Sinter Operational Cont.

30-Sep-20

Operator: Tata Steel UK Ltd
Location: Port Talbot Works
Permit: BL7108 / RP3730BV

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Johnny

RELEASES INTO AIR

Operational summary for quarter ending

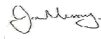
30-Sep-20

Operator: Tata Steel UK Ltd
Location: Port Talbot Works
Permit: BL7108 / RP3730BV

Iron Ore Sintering - Record of strand stoppages > 30 minutes				
Date	Time	Duration (mins)	Planned/	Reason
	Start		Unplanned	
02-Jul-20	17:32:00	18m	Electrical	Loss of combustion air inlet pressure
01-Jul-20	19:55:00	1h 45m	Electrical	Loss of combustion air inlet pressure
03-Jul-20	09:02:00	3h 3m	Planned Maintenance	Planned maintenance
03-Jul-20	20:54:00	21m	Operational	Pallet change carried out no5 off and no65 on
04-Jul-20	01:20:00	4h 26m	Mechanical	issues with 1057 959 958 and 957
04-Jul-20	22:17:00	1h 11m	Operational	by pass chute from 1024 to 1025 too legs either side of back hatch blocked
05-Jul-20	09:28:00	42m	Electrical	1028 Dropped out possible E-stop fault
05-Jul-20	03:48:00	20m	Mechanical	Pallet change No number off, 18 on
05-Jul-20	09:06:00	24m	Mechanical	Took covers off to check for blockage and check the chain
08-Jul-20	13:55:00	6h 5m	Mechanical	950 chain conveyor snapped
09-Jul-20	18:50:00	1h 35m	Operational	Stop to Sinter through, delay prolonged for underspeed issue on HSB
09-Jul-20	20:28:00	34m	Electrical	under speed issue on HSB
09-Jul-20	21:40:00	40m	Mechanical	950 air ingress on inspection hatch, Seal had come away. Followed by sheer pin went on 951
11-Jul-20	06:51:00	29m	Mechanical	Pallet change, hole in south side of pallet
15-Jul-20	06:49:00	58m	Operational	Delay to remove material off 1028
15-Jul-20	09:27:00	1h 17m	Electrical	Delay to dig off material from 1028 due to over filling
15-Jul-20	12:18:00	32m	Electrical	Delay to replace u/speed on cold crusher
16-Jul-20	19:25:00	1h 7m	Mechanical	Delay to remove jammed pallet wheel from lifting sprocket
16-Jul-20	21:02:00	39m	Mechanical	Delay to replace pallet due to wheel off, pallet 20 off and 034A on
18-Jul-20	04:44:00	42m	Mechanical	Delay to remove section of mixer mesh and build up from 1005 head chute
19-Jul-20	19:36:00	25m	Mechanical	no36 on no41 off
20-Jul-20	01:26:00	23m	Mechanical	no120 on and no147 off
21-Jul-20	07:21:00	1h 19m	Mechanical	Stopped to check 1027 but also found 1026 coupling needed greasing which pushed this delay on further
21-Jul-20	13:37:00	40m	Operational	product bin overspill chute blocked
22-Jul-20	12:03:00	1h 18m	Mechanical	Delay to replace damaged rollers on 1027
23-Jul-20	07:03:00	9h 15m	Planned Maintenance	planned maintenance stop to carry out repairs on cooler
23-Jul-20	16:35:00	40m	Mechanical	delay to correct direction issue on 1032
24-Jul-20	20:57:00	19m	Operational	Fields indicating off, stopped to investigate. Was a comms fault
25-Jul-20	21:10:00	34m	Mechanical	Delay to remove jammed pallet wheel in cold crusher
25-Jul-20	17:58:00	35m	Electrical	tripped had a visual around the area nothing untoward, came back in on a reset. Under speed changed
27-Jul-20	02:48:00	54m	Mechanical	Hole in belt, clip joint carried out
27-Jul-20	12:00:00	6h 50m	Mechanical	1027 drive drum bearing change
28-Jul-20	19:12:00	29m	Mechanical	belt needed digging off
29-Jul-20	20:05:00	30m	Mechanical	change rollers on 1001 and 1004 failed to come in
31-Jul-20	13:51:00	58m	Electrical	BOS gas booster fan caused an electrical delay across plant
03-Aug-20	17:18:00	5h 57m	Mechanical	delay to replace 1021 conveyor belt due to damage
03-Aug-20	11:44:00	22m	Mechanical	Check 1003 head drum/bearings
03-Aug-20	16:55:00	20m	Mechanical	Change return rollers
06-Aug-20	11:50:00	1h 40m	Mechanical	7 return rollers changed along with 2 brackets
07-Aug-20	06:50:00	53m	Operational	Delay to recover ore bunkers.

Signed on behalf of the Operator

Date 20/10/20



Form Sinter Operational