

RELEASES INTO AIR

Operational Summary for the month Jan-2018

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			Particulate Matter (mg/m3)								
					Mean sulphur % w/w	Mean chloride % w/w	Mean reverts % w/w	Daily average	4 hour rolling average				Hourly average			
									Maximum	Mean	Minimum	Standard deviation	Maximum	Mean	Minimum	Standard deviation
01-Jan-18	80	100%	100%	100%	0.020	0.021	6.23%	57	64	57	47	6	78	57	44	8
02-Jan-18	78	100%	100%	100%	0.020	0.021	6.23%	72	106	73	47	17	122	72	43	21
03-Jan-18	46	100%	100%	100%	0.020	0.021	6.23%	63	138	62	0	38	158	63	0	50
04-Jan-18	71	100%	100%	100%	0.020	0.021	6.23%	41	63	43	32	9	62	41	29	9
05-Jan-18	31	100%	100%	100%	0.020	0.021	6.23%	53	143	53	0	38	195	53	0	56
06-Jan-18	48	100%	100%	100%	0.020	0.022	5.70%	59	97	50	0	19	297	59	0	59
07-Jan-18	50	100%	100%	100%	0.020	0.022	5.70%	83	171	90	44	31	215	83	0	45
08-Jan-18	58	100%	100%	100%	0.020	0.022	5.70%	57	96	57	32	18	121	57	0	24
09-Jan-18	63	100%	100%	100%	0.020	0.022	5.70%	77	126	74	26	25	151	77	0	38
10-Jan-18	14	100%	100%	100%	0.020	0.022	5.70%	36	112	31	0	40	225	36	0	71
11-Jan-18	56	100%	100%	100%	0.020	0.022	5.70%	61	160	70	30	39	183	61	7	39
12-Jan-18	43	100%	100%	100%	0.020	0.022	5.70%	43	68	42	0	21	104	43	0	33
13-Jan-18	78	100%	100%	100%	0.020	0.02	6.12%	75	109	74	56	15	117	75	50	21
14-Jan-18	58	100%	100%	100%	0.020	0.02	6.12%	49	77	51	33	13	109	49	0	22
15-Jan-18	64	100%	100%	100%	0.020	0.02	6.12%	66	96	64	40	17	113	66	35	23
16-Jan-18	74	100%	100%	100%	0.020	0.02	6.12%	81	111	83	64	15	206	81	58	32
17-Jan-18	41	100%	100%	100%	0.020	0.02	6.12%	64	172	65	0	51	266	64	0	75
18-Jan-18	68	100%	100%	100%	0.020	0.02	6.12%	92	151	85	38	33	162	92	38	40
19-Jan-18	75	100%	100%	100%	0.021	0.02	8.11%	113	175	116	71	30	215	113	47	46
20-Jan-18	33	100%	100%	100%	0.021	0.02	8.11%	53	171	55	0	55	245	53	0	66
21-Jan-18	60	100%	100%	100%	0.021	0.02	8.11%	57	91	59	12	23	120	57	0	29
22-Jan-18	28	100%	100%	100%	0.021	0.02	8.11%	34	94	37	0	35	99	34	0	40
23-Jan-18	30	100%	100%	100%	0.021	0.02	8.11%	65	203	65	0	62	286	65	0	82
24-Jan-18	48	100%	100%	100%	0.021	0.02	8.11%	46	85	43	0	28	129	46	0	36
25-Jan-18	74	100%	100%	100%	0.021	0.018	9.89%	50	58	49	42	4	73	50	15	13
26-Jan-18	76	100%	100%	100%	0.021	0.018	9.89%	70	97	71	52	14	137	70	51	24
27-Jan-18	61	100%	100%	100%	0.021	0.018	9.89%	47	66	50	0	21	82	47	0	26
28-Jan-18	64	100%	100%	100%	0.021	0.018	9.89%	52	75	48	0	16	106	52	1	24
29-Jan-18	48	100%	100%	100%	0.024	0.024	9.13%	42	65	42	0	23	97	42	0	30
30-Jan-18	76	100%	100%	100%	0.024	0.024	9.13%	79	106	76	40	18	121	79	28	21
31-Jan-18	18	100%	100%	100%	0.024	0.024	9.13%	43	131	36	0	47	281	40	0	62
Month ave	-	100%	100%	100%	0.02	0.02	0.1	61	-	60	-	-	-	61	-	-
Month max.	80	-	-	-	0.02	0.02	0.1	113	203	-	-	-	297	-	-	-
Limit	-	-	-	-	0.06	-	-	115	200	-	-	-	-	-	-	-

Signed on behalf of the Operator

Dated 23/04/2018

Form Sinter CEMS

RELEASES INTO AIR

Operational Summary for the month Feb-2018

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			Particulate Matter (mg/m3)								
								Daily average	4 hour rolling average				Hourly average			
					Mean sulphur % w/w	Mean chloride % w/w	Mean reverts % w/w		Maximum	Mean	Minimum	Standard deviation	Maximum	Mean	Minimum	Standard deviation
01-Feb-18	72	100%	100%	100%	0.024	0.024	9.13%	87	117	87	72	13	158	87	49	24
02-Feb-18	57	100%	100%	100%	0.024	0.024	9.13%	91	166	91	13	37	255	91	0	58
03-Feb-18	72	100%	100%	100%	0.024	0.024	9.13%	102	158	103	71	22	243	102	33	41
04-Feb-18	57	100%	100%	100%	0.021	0.022	9.56%	65	113	70	3	28	131	65	0	39
05-Feb-18	49	100%	100%	100%	0.021	0.022	9.56%	70	142	65	0	36	236	70	0	55
06-Feb-18	52	100%	100%	100%	0.021	0.022	9.56%	98	150	91	0	41	301	98	0	66
07-Feb-18	49	100%	100%	100%	0.021	0.022	9.56%	73	171	80	0	43	224	73	0	55
08-Feb-18	62	100%	100%	100%	0.021	0.022	9.56%	73	102	71	29	17	130	73	0	31
09-Feb-18	69	100%	100%	100%	0.021	0.022	9.56%	105	146	108	63	21	194	105	62	40
10-Feb-18	72	100%	100%	100%	0.024	0.014	9.40%	72	125	72	53	22	244	72	51	38
11-Feb-18	69	100%	100%	97%	0.024	0.014	9.40%	112	179	112	63	34	234	112	5	51
12-Feb-18	61	100%	100%	65%	0.024	0.014	9.40%	85	161	83	24	40	213	85	0	51
13-Feb-18	53	100%	100%	28%	0.024	0.014	9.40%	66	110	67	17	26	130	66	0	38
14-Feb-18	73	100%	100%	74%	0.023	0.021	8.71%	59	70	58	41	9	90	59	38	14
15-Feb-18	66	100%	100%	100%	0.023	0.021	8.71%	60	78	60	33	13	94	60	0	20
16-Feb-18	67	100%	100%	100%	0.023	0.021	8.71%	80	106	79	46	16	143	80	0	32
17-Feb-18	75	100%	100%	100%	0.023	0.021	8.71%	100	127	98	75	13	158	100	62	26
18-Feb-18	68	100%	100%	100%	0.023	0.021	8.71%	95	129	97	64	18	199	95	0	37
19-Feb-18	74	100%	100%	100%	0.025	0.012	9.27%	111	178	110	90	24	203	111	73	36
20-Feb-18	76	100%	100%	100%	0.025	0.012	9.27%	100	133	101	70	17	184	100	60	30
21-Feb-18	57	100%	100%	99%	0.025	0.012	9.27%	93	134	94	58	20	192	93	0	44
22-Feb-18	11	100%	100%	97%	0.025	0.012	9.27%	41	138	33	0	44	250	41	0	74
23-Feb-18	70	100%	100%	97%	0.025	0.012	9.27%	101	219	108	66	43	242	101	61	42
24-Feb-18	71	100%	100%	100%	0.025	0.012	9.27%	77	103	77	55	16	120	77	51	21
25-Feb-18	69	100%	100%	69%	0.024	0.017	9.03%	92	130	87	58	17	223	92	52	40
26-Feb-18	58	100%	100%	100%	0.024	0.017	9.03%	83	160	92	38	37	207	83	0	50
27-Feb-18	61	100%	100%	100%	0.024	0.017	9.03%	80	145	76	30	33	230	80	0	47
28-Feb-18	52	100%	100%	100%	0.024	0.017	9.03%	57	86	62	18	21	133	57	0	34
Month ave	-	100%	100%	94%	0.02	0.02	0.1	83	-	83	-	-	-	83	-	-
Month max.	76	-	-	-	0.02	0.02	0.1	112	219	-	-	-	301	-	-	-
Limit	-	-	-	-	0.06	-	-	115	200	-	-	-	-	-	-	-

Signed on behalf of the Operator

Dated 23/04/2018

Form Sinter CEMS

RELEASES INTO AIR

Operational Summary for the month Mar-2018

Operator: Tata Steel UK Ltd

Permit: BL7108 / RP3730BV

Location: Port Talbot Works

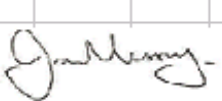
Release Point: A1

Day	% max throughput	% data capture	% EP availability	% UJT availability	Sinter Blend			Particulate Matter (mg/m3)								
					Mean sulphur % w/w	Mean chloride % w/w	Mean reverts % w/w	Daily average	4 hour rolling average				Hourly average			
									Maximum	Mean	Minimum	Standard deviation	Maximum	Mean	Minimum	Standard deviation
01-Mar-18	13	100%	100%	80%	0.024	0.017	9.03%	32	141	32	0	52	216	32	0	59
02-Mar-18	57	100%	100%	13%	0.024	0.017	9.03%	97	149	96	61	27	222	97	56	43
03-Mar-18	54	100%	100%	57%	0.027	0.02	10.70%	66	87	65	43	15	110	66	1	25
04-Mar-18	58	100%	100%	43%	0.027	0.02	10.70%	112	175	115	55	35	237	112	48	48
05-Mar-18	67	100%	100%	10%	0.027	0.02	10.70%	79	143	74	52	27	187	79	49	38
06-Mar-18	54	100%	100%	46%	0.027	0.02	10.70%	72	147	76	-1	42	152	72	-1	51
07-Mar-18	45	100%	100%	63%	0.027	0.02	10.70%	17	63	22	0	22	68	17	0	25
08-Mar-18	62	100%	100%	100%	0.027	0.02	11.74%	56	116	50	0	41	143	56	0	49
09-Mar-18	71	100%	100%	100%	0.027	0.02	11.74%	83	150	86	27	34	171	83	12	44
10-Mar-18	69	100%	100%	100%	0.027	0.02	11.74%	21	54	23	12	9	58	21	8	10
11-Mar-18	66	100%	100%	100%	0.027	0.02	11.74%	23	32	22	11	7	52	23	9	11
12-Mar-18	66	100%	100%	100%	0.027	0.02	11.74%	24	38	24	13	8	72	24	12	14
13-Mar-18	73	100%	100%	100%	0.030	0.019	10.94%	30	47	31	21	7	69	30	16	13
14-Mar-18	44	100%	100%	100%	0.030	0.019	10.94%	19	55	20	0	16	145	19	0	32
15-Mar-18	71	100%	100%	100%	0.030	0.019	10.94%	63	132	58	10	46	187	63	10	50
16-Mar-18	67	100%	100%	79%	0.030	0.019	10.94%	110	164	109	76	27	234	110	70	40
17-Mar-18	69	100%	100%	70%	0.031	0.021	12.36%	108	170	109	67	27	208	108	58	42
18-Mar-18	65	100%	100%	88%	0.031	0.021	12.36%	124	199	117	61	47	270	124	59	57
19-Mar-18	66	100%	100%	99%	0.031	0.021	12.36%	92	173	101	40	35	179	92	32	41
20-Mar-18	68	100%	100%	93%	0.031	0.021	12.36%	71	112	66	36	25	169	71	34	36
21-Mar-18	15	100%	100%	86%	0.031	0.021	12.36%	29	123	35	0	51	273	29	0	65
22-Mar-18	41	100%	100%	49%	0.026	0.018	12.95%	77	246	77	15	77	303	77	0	93
23-Mar-18	58	100%	100%	60%	0.026	0.018	12.95%	29	53	30	7	14	71	29	0	18
24-Mar-18	48	100%	100%	100%	0.026	0.018	12.95%	37	60	35	0	16	77	37	0	20
25-Mar-18	63	100%	100%	100%	0.026	0.018	12.95%	40	57	38	25	10	88	40	21	17
26-Mar-18	65	100%	100%	100%	0.026	0.018	12.95%	49	76	50	29	12	129	49	24	23
27-Mar-18	65	100%	100%	100%	0.026	0.018	11.47%	68	113	69	31	25	201	68	28	43
28-Mar-18	66	100%	100%	100%	0.026	0.018	11.47%	45	101	47	25	21	141	45	0	30
29-Mar-18	48	100%	100%	100%	0.026	0.018	11.47%	39	73	38	0	20	144	39	0	37
30-Mar-18	69	100%	100%	100%	0.026	0.018	11.47%	37	55	36	21	9	84	37	19	17
31-Mar-18	69	100%	100%	100%	0.026	0.018	11.47%	36	55	34	21	10	99	34	18	16
Month ave	58	100%	100%	82%	0.03	0.02	0.1	58	-	58	-	-	-	57	-	-
Month max.	73	-	-	-	0.03	0.02	0.1	124	246	-	-	-	303	-	-	-
Limit	-	-	-	-	0.06	-	-	40	-	-	-	-	-	-	-	-

* No data available.

04-11/10 Sinter Plant on stop

Signed on behalf of the Operator



Dated 26/04/2018

Form Sinter CEMS

RELEASES TO AIR

Operational summary for quarter ending 31-Mar-18

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	60798		
	Month 2	56904		
	Month 3	45020		
A13A BOS convertor 2 gas flare	Month 1	121596		
	Month 2	113808		
	Month 3	90040		
A33 Blast furnace gas flare stack no.1	Month 1	41136		
	Month 2	37519		
	Month 3	34864		
A33C Blast furnace gas flare stack no.2	Month 1	70096		
	Month 2	85936		
	Month 3	75108		
A33A Blast furnace gas main number 4 bleeder	Month 1		58	
	Month 2		15	
	Month 3		24	
A33B Blast furnace gas main number 5 bleeder	Month 1		191	
	Month 2		110	
	Month 3		276	
A59 Coke oven gas triple flare	Month 1	37380		
	Month 2	11873		
	Month 3	19458		
Blast furnaces 4 and 5	Month 1			1444240
	Month 2			1145599
	Month 3			1502399
Coke ovens	Month 1			526929
	Month 2			446753
	Month 3			475084
BOS Plant	Month 1			198371
	Month 2			153237
	Month 3			195409

Signed on behalf of the Operator

Dated 10/04/18

Form Installation gas

WASTE PRODUCTION

Operational summary for quarter ending 31-Mar-18

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)	Waste oil reductant (tonnes)
BOS	Jan	30892	0					
	Feb	32521	5429					
	Mar	47449	13958					
Iron and steel installation	Jan			6.0	807			
	Feb			3.9	860			
	Mar			2.9	783			
BF4 tapholes	Jan					30295		
	Feb					26684		
	Mar					34064		
BF5 tapholes	Jan					32498		
	Feb					24703		
	Mar					36056		
BF5	Jan							0.00
	Feb							0.00
	Mar							0.00
Coke ovens	Jan						146	**
	Feb						172	**
	Mar						174	**

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

** WID compliant Oil.

Signed on behalf of the Operator

Dated 10/04/18

Form Waste 1

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-18

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)	2144	1990	1936	2109	1710	2160	2160
Mean load (%MCR)	52.5	50.5	48.9	82.6	80.9	65.7	59.2
Mean flue gas flow (Nm ³ /hr)	61618	51926	70395	212691	198568	156353	179280
Heavy Fuel Oil							
Average net CV (GJ/te)	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	1.00	1.00	1.00	1.00	1.00	1.00	
NOx factor	0.1	0.1	0.1	0.1	0.1	0.1	
Coke Oven Gas							
Average net CV (GJ/km ³)	16.93	16.9	16.9	16.9	16.9	16.9	
Sulphur content (g/m ³)	5.10	5.1	5.1	5.1	5.1	5.1	
NOx factor	0.04	0.04	0.04	0.04	0.04	0.04	
Blast Furnace Gas							
Average net CV (GJ/km ³)	3.48	3.48	3.48	3.48	3.48	3.48	3.48
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)	37.4	37.4	37.4	37.4	37.4	37.4	37.4
NOx factor	0.04	0.04	0.04	0.04	0.04	0.04	0.04

Signed on behalf of the Operator



Dated

25/04/18

Form LCPD Operating 1

RELEASES INTO AIR

Operational summary for quarter ending 31-Mar-18

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

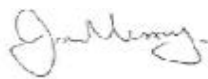
Permit: BL7108

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

OXIDES OF NITROGEN - NOx (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		16-Jan-18 11:08	12-Feb-18 10:48:00	12-Feb-18 10:43:00		
Flowrate (Nm3/hr)		90891	150,620	204631		
NOx measured** conc. (mg/Nm3)		55 (+/-2.8)	97 (+/-3.4)	82 (+/-2.9)		
NOx limit (mg/NM3)		300 BFG/COG	300 BFG/COG	300 BFG/COG		
Sampling method used		ISO 10849	ISO 10849	ISO 10849		
Analytical method used		EC*	EC*	EC*		
Continuous hourly monitoring result over the period			52	34		
Fuel usages over the sampling period						
Natural gas (%)		0%	8%	12%		
BF gas (%)		84%	68%	68%		
Coke oven gas (%)		16%	24%	20%		
Heavy fuel oil (%)		0%	0%	0%		

A52A, A52B and A62 (Boiler 3) have an annual monitoring requirement. A50A/A50B has a six monthly monitoring requirement. CEMS subject to QAL2 in 2013

* EC - electrochemical cell



Signed on behalf of the Operator

Dated 10/04/18

Form LCPD DCM NOx

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-18

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		16-Jan-18 11:08	12-Feb-18 10:48:00	12-Feb-18 10:43:00		
Flowrate (Nm ³ /hr)		90891	150620	204631		
SO ₂ measured conc. (mg/Nm ³)		60 (+/- 3.9)	4 (+/-1.6)	79 (+/-3.2)		
SO ₂ limit (mg/NM ³)		800 BFG/COG	800 BFG/COG	800 BFG/COG		
Sampling method used		BS 6069	BS 6069	BS 6069		
Analytical method used		EC*	EC*	EC*		
Continuous hourly monitoring result over the period			69	14.9		
Fuel usages over the sampling period						
Natural gas (%)		0%	8%	12%		
BF gas (%)		84%	68%	68%		
Coke oven gas (%)		16%	24%	20%		
Heavy fuel oil (%)		0%	0%	0%		

A52A, A52B and A62 (Boiler 3) have an annual monitoring requirement. A50A/A50B have a six monthly monitoring requirement. CEMS subject to QAL2 in 2013

* EC - electrochemical cell



Signed on behalf of the Operator

Dated 10/04/18

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-18

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	Jan	0	60392	17605	2267		80263
	Feb	0	58223	9579	3010		70813
	Mar	0	40261	35081	4467		79809
A50B Service Boiler 5	Jan	0	55813	20083	2263		78159
	Feb	0	50908	11598	3095		65602
	Mar	0	29336	28077	5148		62561
A51 Boiler A5	Jan	253	6969	51523	2839	104	61689
	Feb	275	10243	48025	1456	141	60139
	Mar	1312	8751	36672	1894	96	48725
A52A Boiler 6	Jan	43	42371	221197	31752	22934	318297
	Feb	3026	49099	182064	31423	23392	289003
	Mar	5166	49367	239342	22722	22809	339406
A52B Boiler 7	Jan	17	47236	164193	13213	15967	240626
	Feb	1755	36810	137501	23853	16576	216495
	Mar	16	39186	221765	12220	21674	294861
A53 Mitchell	Jan	0	7901	146491	6149		160540
	Feb	451	8596	106312	6341		121700
	Mar	1681	6471	118042	5231		131424
A62 Boiler 3	Jan			156261	16536	324	173122
	Feb			109576	24371	353	134300
	Mar			134188	14375	123	148686
Total	Jan	313	220681	777353	75019	39330	1112695
	Feb	5506	213878	604655	93550	40462	958050
	Mar	8175	173372	813166	66056	44702	1105471

Signed on behalf of the Operator

Dated 10/04/18

Form LCPD Fuels

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-18

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=20/25/40	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 (40)	Jan	0.3	1.6	10/01/18 11:00	0.0	0.2	100%
	Feb	0.6	7.6	12/02/18 17:00	0.1	0.5	98%
	Mar	0.6	5.7	16/03/18 17:00	0.1	0.6	100%
A51 Boiler A5 (20)	Jan	1.6	62.3	22/01/18 06:00	0.0	4.4	100%
	Feb	0.9	77.0	22/02/18 07:00	0.0	3.8	100%
	Mar	1.9	156.8	01/03/18 23:00	-0.1	10.5	100%
A52A Boiler 6 (25)	Jan	2.1	8.3	08/01/18 17:00	1.5	0.4	100%
	Feb	2.3	26.5	20/02/18 11:00	0.0	2.4	100%
	Mar	2.7	25.5	02/03/18 21:00	1.4	3.6	100%
A52B Boiler 7 (25)	Jan	0.9	27.0	11/01/18 20:00	0.0	1.5	100%
	Feb	3.5	49.7	08/02/18 01:00	0.0	6.6	100%
	Mar	0.9	8.9	01/03/18 04:00	0.0	1.0	100%
A53 Mitchell (20)	Jan	3.2	6.3	26/01/18 20:00	2.1	0.4	100%
	Feb	3.5	24.6	22/02/18 09:00	2.2	1.9	100%
	Mar	5.6	26.7	01/03/18 12:00	3.6	2.9	100%

Signed on behalf of the Operator

Dated

25/04/18

Form LCPD CEM Parts

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-18

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	Jan	159.1	252.9	26/01/2018 20:00	41.4	38.6	100%
	Feb	159.3	799.0	22/02/2018 9:00	0.0	87.2	100%
	Mar	176.9	877.8	01/03/2018 13:00	40.3	69.8	88%
A52B Boiler 7	Jan	70.5	334.4	15/01/2018 17:00	0.0	58.1	100%
	Feb	70.7	283.4	08/02/2018 2:00	0.0	50.0	100%
	Mar	215.9	688.2	04/03/2018 12:00	0.0	162.1	100%
A50A & A50B Service Boilers	Jan	383.6	794.7	02/01/2018 6:00	-0.4	191.6	100%
	Feb	430.6	881.8	12/02/2018 17:00	75.8	156.3	97%
	Mar	248.5	778.4	16/03/2018 13:00	18.4	145.0	98%
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	Jan	331.7	538.2	26/01/2018 21:00	187.6	45.1	100%
	Feb	318.9	797.7	22/02/2018 9:00	0.0	109.9	100%
	Mar	390.5	798.4	01/03/2018 13:00	89.5	61.9	88%
A52B Boiler 7	Jan	127.6	378.6	01/01/2018 8:00	0.0	95.3	100%
	Feb	107.2	735.1	22/02/2018 8:00	0.0	84.9	100%
	Mar	287.6	874.1	04/03/2018 0:00	0.0	158.2	100%
A50A & A50B Service Boilers	Jan	876.5	1983.0	02/01/2018 6:00	0.0	455.5	100%
	Feb	949.8	1979.4	23/02/2018 1:00	131.6	415.8	97%
	Mar	501.8	1702.4	01/03/2018 9:00	74.9	318.9	99%

Signed on behalf of the Operator

Dated 25/04/18

Form LCPD CEMS SO2 & NOx

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-18

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

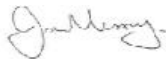
Permit: BL7108 / NP3938GZ

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 reponse	Fuel weighted monthly limit	% Abnormal conditons *
A62 Boiler 3	Jan	5.5	3.0	25-Jan-18	2.3	0.7	100.00%	9.5	5.65%
	Feb	8.2	3.7	23-Feb-18	2.0	1.6	100.00%	8.6	28.87%
	Mar	8.0	3.4	01-Mar-18	2.1	1.2	100.00%	9.4	10.22%
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 reponse	Fuel weighted monthly limit	% Abnormal conditons
A62 Boiler 3	Jan	37.9	27.8	01-Jan-18	21.3	3.6	100.00%	182.0	5.65%
	Feb	34.3	25.7	08-Feb-18	20.9	3.6	100.00%	154.1	28.87%
	Mar	32.8	24.3	19-Mar-18	20.7	3.0	100.00%	179.9	10.22%
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 reponse	Fuel weighted monthly limit	% Abnormal conditons
A62 Boiler 3	Jan	49.5	29.5	01-Jan-18	14.4	8.8	100.00%	189.1	5.65%
	Feb	101.8	33.1	16-Feb-18	12.4	18.1	100.00%	172.2	28.87%
	Mar	50.9	24.2	09-Mar-18	9.8	10.1	100.00%	187.8	10.22%

Boiler 3 off from 21 January 2016.

Signed on behalf of the Operator



Dated 25/04/18

RELEASES INTO AIR

Operational summary for quarter ending 31-Mar-18

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 25/04/18

Form LCPD CEMS LOG

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-18

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

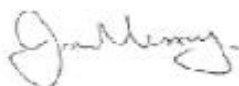
Permit: BL7108 / NP3938GZ

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	66 (+/- 4.7)	302 (+/- 24.4)	178 (+/- 14.5)	6250 (+/- 376.1)
Measured oxygen content (%)	15.1	15.6	15.6	15.6
Measured conc. according to condition 10.1.3a (17%O2)	27	223	131	4599
Sampling method used	BS EN 13284	BS 6069	ISO 10849	BS ISO 12039
Analytical method used	Gravimetric	*EC	*EC	*EC
Date of sampling	13-Mar-18	13-Mar-18	13-Mar-18	13-Mar-18
Sample start time	10:18:00	09:32	09:32	09:32
Sample end time	12:37	10:32	10:32	10:32
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	30.1			
Process status at the time of sampling				
Mean sulphur content of sinter blend in use (%)	0.030	0.030	0.030	0.030
Reverts content of sinter blend in use (%)	10.9	10.9	10.9	10.9
Mean chloride content of sinter blend in use (%)	0.02	0.02	0.02	0.02
Throughput during sampling period (% of maximum)	100.0	100.0	100.0	100.0

* EC - electrochemical cell

Signed on behalf of the Operator



Dated

26/04/18

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-18

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	13.5	13.5	4.7	26.6	28.3	6.3	1.7	3.7	3.7	1.7	9.1	6.9	4.2	1.3	0.0	0.0	0.03	0.3	0.1	0.2	0.12
February	11.2	11.2	6.3	30.6	22.5	6.3	1.4	3.1	3.1	1.7	8.7	6.5	3.3	1.3	0.0	0.0	0.01	0.3	0.4	0.2	0.12
March	10.2	10.2	4.9	26.9	19.2	5.4	1.4	2.5	2.5	1.5	10.0	8.1	3.6	1.0	0.0	0.0	0.20	0.4	0.1	0.3	0.12
April																					
May																					
June																					
July																					
August																					
September																					
October																					
November																					
December																					
Totals	35	35	16	84	70	18	5	9	9	5	28	22	11	4	0.0	0.0	0.2	1.0	0.7	0.7	0.4
	263							87							3						
	Service		A5	Margam C		Mit	3	Service		A5	Mgm C		Mit	3	Service		A5	Mgm C		Mit	3
Boiler Plant Totals	70		16	154		18	5	18		5	49		11	4	0		0	2		1	0
NERP Annual Limit (T)	686		251	2219		575		252		96	929		212		20		4	56		10	

Signed on behalf of the Operator

Dated 16/04/18

Form LCPD Monthly 1

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-18

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	A30	A31	A32	A34A	A34B	A39 #
Time and date of sampling	06-Feb-18 10:17	27-Mar-18 10:03				20-Feb-18 10:55	20-Feb-18 13:54	
Flowrate (Nm3/hr)	240969	146537				184849	210646	
NOx measured conc.(mg/Nm3) **	33 (+/-1.4)	26 (+/-1.2)				376 (+/- 14.7)	387 (+/-17.2)	
Oxygen content (%)								
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 (%)	8%	4%				100%	44%	
BF gas (%)	66%	80%						
Coke oven gas (%)	4%	16%				0%	56%	
BOS Gas (%)	22%							

* EC - electrochemical cell

A30, A31 & A32 are no longer a permit requirement/ non operational

A39 has a 6 monthly monitoring requirement.

Signed on behalf of the Operator

Dated 11/04/18

Form I&S DCM NOx

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-18

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

Permit: BL7108 / NP3938GZ

Release Points: A6, A7, A34A & A34B

SULPHUR DIOXIDE - SO2 (DISCONTINUOUS MONITORING)					
Release Point	A6	A7	A34A	A34B	A39 #
Time and date of sampling	06-Feb-18 10:17	27-Mar-18 10:03	20-Feb-18 10:55	20-Feb-18 13:54	
Flowrate (Nm3/hr)	240969	146537	184849	210646	
SO2 measured conc.(mg/Nm3)	11.4 (+/- 1.9)	20 (+/- 1.9)	0 (+/-2.4)	10 (+/-3.1)	
SO2 limits (mg/Nm3)	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 (%)	8%	4%	100%	44%	
BF gas (%)	66%	80%			
Coke oven gas (%)	4%	16%	0%	56%	
BOS Gas (%)	22%				

* EC - electrochemical cell

A39 has a 6 monthly monitoring requirement

Signed on behalf of the Operator

Dated 11/04/18

Form I&S DCM SO2

RELEASES INTO AIR

Operational summary for quarter ending 31-Mar-18

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)	A46* (annual)
Parameter	Chloride (as HCl)	Carbon monoxide			Oxides of nitrogen
Time and date of sampling	22-Jan-18 11:08	06-Feb-18 10:17	27-Mar-18 11:02	- -	- -
Flowrate (Nm3/hr)	17,904	240969	146537	-	-
Measured conc.(mg/Nm3)	0.1 (+/-0.1)	6250 (+/-281)	6250 (+/- 264.6)	-	-
Emission limits (mg/Nm3)	5				
Sampling method used	Isokinetic	BS ISO 12039	BS ISO 12039	BS ISO 12039	ISO 10849
Analytical method used	BSEN1911	EC *	EC *	EC *	EC *
Fuel usages over the sampling period					
Natural gas (%)		8%	4%		
BF gas (%)		66%	80%		
Coke oven gas (%)		4%	16%		
BOS Gas (%)		22%			

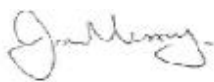
* EC - electrochemical cell

* No limit for A46 in new permit.

A39 has a 6 monthly monitoring requirement

Signed on behalf of the Operator

Dated 11/04/18



Form I&S DCM Misc

RELEASES INTO AIR

Operational summary for quarter ending 31-Mar-18

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	Jan	15 Daily mean	3	2.1	0.2	3.4	2.0	0.2	2.3	100%	100%
	Feb		3	2.1	0.1	3.5	1.7	0.2	2.3	100%	100%
	Mar		3	2.1	0.1	2.8	2.0	0.2	2.3	100%	100%
A8B	Jan	15 Daily mean	5	2.6	0.6	9.5	1.5	1.0	5.9	100%	100%
	Feb		15	3.0	2.6	41.2	2.2	4.0	5.4	100%	100%
	Mar		7	3.3	1.0	13.7	1.9	1.5	5.0	100%	100%
A9	Jan	15 Daily mean	5	0.0	1.4	11.2	0.7	1.5	0.5	100%	100%
	Feb		6	0.0	1.3	12.3	0.6	1.9	0.4	100%	100%
	Mar		8	0.0	2.3	13.2	0.6	1.9	0.9	100%	100%
A2*	Jan	30 Daily mean	36	0.8	9.0	139.5	0.0	15.4	21.4	100%	100%
	Feb		150	0.0	40.7	290.1	0.0	50.6	46.8	100%	100%
	Mar		104	0.0	23.8	196.5	0.0	37.3	38.7	100%	100%
A10	Jan	15 Daily mean	7	2.6	0.5	6.5	5.1	2.0	4.7	100%	100%
	Feb		8	1.3	0.5	4.4	3.8	2.4	4.7	100%	100%
	Mar		11	3.0	2.1	18.5	5.5	3.4	5.6	100%	100%
A14	Jan	15 Daily mean	16	5.9	2.6	41.5	8.9	6.3	10.3	100%	100%
	Feb		4	2.5	0.2	5.0	2.8	0.6	2.9	100%	100%
	Mar		11	0.1	3.5	35.0	0.6	8.1	2.9	100%	100%
A15	Jan	15 Daily mean	7	3.7	0.9	12.5	5.4	1.7	5.4	100%	100%
	Feb		5	1.8	0.7	6.9	2.4	1.1	2.8	100%	100%
	Mar		6	2.6	0.8	10.0	3.4	1.5	3.8	100%	100%
A16	Jan	15 Daily mean	4	1.9	0.7	5.8	2.5	0.9	3.0	100%	100%
	Feb		6	1.9	0.9	11.0	3.7	2.1	3.5	100%	100%
	Mar		3	1.9	0.3	5.4	2.4	0.8	2.3	100%	100%

*A2 ELV discussed with NRW as derogation

Signed on behalf of the Operator

Dated 10/04/18

Form I&S CEMS Parts 1 & 2

RELEASES INTO AIR

Operational summary for quarter ending 31-Mar-18

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	Jan	15	1.4	0.7	0.5	6.5	0.9	0.4	0.9	100%	100%
	Feb	Daily mean	1.5	0.7	0.5	4.4	0.0	0.7	1.0	100%	100%
	Mar		1.9	0.5	2.1	18.5	0.7	0.7	1.0	100%	100%
A63	Jan	25	Inconsistent data during the period - to be investigated.								
	Feb	Hourly mean									
	Mar										

Signed on behalf of the Operator

Dated 25/04/18

Form I&S CEMS Part 3

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-18

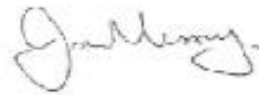
Operator: Port Talbot Works

Location: Port Talbot Works

Permit: BL7108 / RP3730BV

	NOx (tonnes)	Lead (tonnes)	PM10 (tonnes)	CO2 (k tonnes)
Morfa	451			
Iron & Steel	692	1.8	383	1367
Total	1143	1.8	383	1367

Signed on behalf of the Operator



Dated 25/04/18

Form KPI

RELEASES INTO AIR

Operational Summary for quarter ending 31-Mar-18

Operator: Tata Steel Strip Products UK

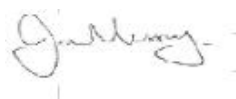
Location: Port Talbot Works

Permit: BL7108

Release Points:

PARTICULATE MATTER (DISCONTINUOUS MONITORING)		
Release Point	A6	A7
Time and date of sampling	06-Feb-18 10:18	27-Mar-18 11:02
Flowrate (Nm3/hr)	272,839	227,096
Particulate measured conc. (mg/Nm3)	2.4 (+/-1.3)	0.9 (+/-1.1)
Particulate limit (mg/Nm3)	10	10
Sampling method used	BS EN 13284	BS EN 13284
Analytical method used	Gravimetric	Gravimetric
Fuel Usage		
Natural gas (%)	8%	4%
BF gas (%)	66%	80%
Coke oven gas (%)	4%	16%
BOS (%)	22%	

Signed on behalf of the Operator



Dated

25/04/2018

Form Blast Furnace DCM Part

Operational summary for quarter ending 31-Mar-18

Location: Port Talbot Works

Release Points: A4A, A5A, & iron plating

[illegible]

Liquid Iron Plating Operations (Iron Plating Pit)			
Date	Time	Tonnes	Reason
05/01/18	08:22	229	Metallurgy Reasons
05/01/18	07:27	300	Metallurgy Reasons
05/01/18	05:24	228	Metallurgy Reasons
05/01/18	04:38	282	Metallurgy Reasons
05/01/18	00:39	278	Metallurgy Reasons
04/01/18	23:52	237	Metallurgy Reasons
03/01/18	12:10	228	Metallurgy Reasons
03/01/18	10:48	268	Metallurgy Reasons
01/01/18	15:25	12	Metallurgy Reasons
11/01/18	00:32	240	Metallurgy Reasons
10/01/18	22:41	282	Metallurgy Reasons
10/01/18	22:03	240	Metallurgy Reasons
10/01/18	19:42	228	Metallurgy Reasons
10/01/18	18:36	228	Metallurgy Reasons
09/01/18	15:40	190	Metallurgy Reasons
Total		3470	

Signed on behalf of the Operator

Form I&S Operational 1

Dated 10/04/18

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-18

Operator: Tata Steel UK Ltd

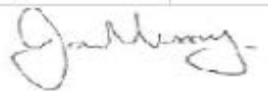
Location: Port Talbot Works

Permit: BL7108

Release Points: Iron plating continued

Liquid Iron Plating Operations (Iron Plating Pit)			
Date	Time	Tonnes	Reason
09/01/18	14:48	240	Metallurgy Reasons
09/01/18	06:29	251	Metallurgy Reasons
05/01/18	11:21	279	Metallurgy Reasons
05/01/18	09:53	237	Metallurgy Reasons
17/01/18	15:22	222	Metallurgy Reasons
17/01/18	15:13	228	Metallurgy Reasons
17/01/18	14:40	228	Metallurgy Reasons
17/01/18	13:48	180	Metallurgy Reasons
12/01/18	00:51	212	Metallurgy Reasons
11/01/18	20:20	256	Metallurgy Reasons
11/01/18	18:57	300	Metallurgy Reasons
11/01/18	18:52	180	Metallurgy Reasons
11/01/18	17:58	228	Metallurgy Reasons
11/01/18	01:18	228	Metallurgy Reasons
18/01/18	22:32	228	Metallurgy Reasons
18/01/18	15:48	228	Metallurgy Reasons
18/01/18	14:54	190	Metallurgy Reasons
18/01/18	14:25	240	Metallurgy Reasons
18/01/18	13:37	294	Metallurgy Reasons
18/01/18	08:45	217	Metallurgy Reasons
18/01/18	04:45	228	Metallurgy Reasons
18/01/18	04:19	170	Metallurgy Reasons
17/01/18	19:27	240	Metallurgy Reasons
17/01/18	18:52	228	Metallurgy Reasons
26/01/18	06:09	273	Metallurgy Reasons
26/01/18	05:01	104	Metallurgy Reasons
24/01/18	12:18	250	Metallurgy Reasons
24/01/18	10:53	240	Metallurgy Reasons
22/01/18	09:59	237	Metallurgy Reasons
22/01/18	08:39	190	Metallurgy Reasons
22/01/18	05:38	251	Metallurgy Reasons
22/01/18	04:26	184	Metallurgy Reasons
21/01/18	18:41	294	Metallurgy Reasons
18/01/18	23:11	237	Metallurgy Reasons
02/02/18	14:35	273	Metallurgy Reasons
27/01/18	11:59	228	Metallurgy Reasons
26/01/18	11:34	228	Metallurgy Reasons
26/01/18	10:28	174	Metallurgy Reasons
26/01/18	09:53	310	Metallurgy Reasons
26/01/18	09:17	153	Metallurgy Reasons
Total		9158	

Signed on behalf of the Operator



Dated 10/04/18

Form I&S Operational 1

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-18

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
26/01/18	08:37	190	Metallurgy Reasons
26/01/18	08:00	216	Metallurgy Reasons
26/01/18	07:21	206	Metallurgy Reasons
26/01/18	06:44	162	Metallurgy Reasons
06/02/18	15:20	278	Metallurgy Reasons
06/02/18	14:27	306	Metallurgy Reasons
06/02/18	10:10	285	Metallurgy Reasons
06/02/18	09:19	288	Metallurgy Reasons
06/02/18	04:20	171	Metallurgy Reasons
06/02/18	03:59	228	Metallurgy Reasons
06/02/18	02:49	278	Metallurgy Reasons
06/02/18	02:17	228	Metallurgy Reasons
05/02/18	18:58	217	Metallurgy Reasons
05/02/18	18:10	247	Metallurgy Reasons
07/02/18	10:26	268	Metallurgy Reasons
07/02/18	08:49	247	Metallurgy Reasons
07/02/18	07:50	282	Metallurgy Reasons
07/02/18	03:40	268	Metallurgy Reasons
07/02/18	02:17	228	Metallurgy Reasons
07/02/18	01:55	206	Metallurgy Reasons
06/02/18	21:43	278	Metallurgy Reasons
06/02/18	21:00	237	Metallurgy Reasons
06/02/18	19:28	171	Metallurgy Reasons
06/02/18	19:05	247	Metallurgy Reasons
13/02/18	01:41	189	Metallurgy Reasons
10/02/18	06:47	228	Metallurgy Reasons
10/02/18	06:02	228	Metallurgy Reasons
10/02/18	05:01	208	Metallurgy Reasons
10/02/18	03:59	228	Metallurgy Reasons
09/02/18	14:59	285	Metallurgy Reasons
09/02/18	12:12	180	Metallurgy Reasons
07/02/18	19:00	200	Metallurgy Reasons
07/02/18	18:33	268	Metallurgy Reasons
07/02/18	11:12	190	Metallurgy Reasons
18/02/18	11:57	232	Metallurgy Reasons
18/02/18	11:11	294	Metallurgy Reasons
Total		8462	

Signed on behalf of the Operator

Dated 10/04/18

Form I&S Operational 1

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-18

Operator: Port Talbot Works

Location: Port Talbot Works

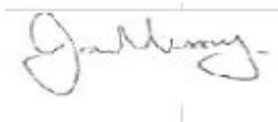
Permit: BL7108

Release Points: Iron plating continued

Liquid Iron Plating Operations (Iron Plating Pit)			
Date	Time	Tonnes	Reason
18/02/18	08:08	171	Metallurgy Reasons
18/02/18	07:39	225	Metallurgy Reasons
18/02/18	04:11	228	Metallurgy Reasons
18/02/18	02:04	228	Metallurgy Reasons
17/02/18	08:41	113	Metallurgy Reasons
17/02/18	06:02	294	Metallurgy Reasons
16/02/18	18:31	228	Metallurgy Reasons
16/02/18	17:49	237	Metallurgy Reasons
19/02/18	23:09	285	Metallurgy Reasons
19/02/18	22:10	247	Metallurgy Reasons
19/02/18	21:15	140	Metallurgy Reasons
19/02/18	21:14	250	Metallurgy Reasons
19/02/18	19:04	228	Metallurgy Reasons
19/02/18	17:57	256	Metallurgy Reasons
19/02/18	17:06	228	Metallurgy Reasons
19/02/18	15:57	174	Metallurgy Reasons
19/02/18	15:17	216	Metallurgy Reasons
18/02/18	13:57	297	Metallurgy Reasons
23/02/18	03:45	138	Metallurgy Reasons
23/02/18	01:18	144	Metallurgy Reasons
21/02/18	22:17	294	Metallurgy Reasons
21/02/18	20:58	228	Metallurgy Reasons
21/02/18	02:05	237	Metallurgy Reasons
20/02/18	23:06	240	Metallurgy Reasons
20/02/18	00:45	190	Metallurgy Reasons
20/02/18	00:38	228	Metallurgy Reasons
19/02/18	23:43	294	Metallurgy Reasons
19/02/18	23:13	250	Metallurgy Reasons
25/02/18	12:13	228	Metallurgy Reasons
25/02/18	05:55	228	Metallurgy Reasons
25/02/18	05:16	247	Metallurgy Reasons
24/02/18	16:05	247	Metallurgy Reasons
24/02/18	15:28	171	Metallurgy Reasons
24/02/18	01:18	273	Metallurgy Reasons
23/02/18	23:50	190	Metallurgy Reasons
23/02/18	17:24	228	Metallurgy Reasons
Total		8100	

Signed on behalf of the Operator

Dated 10/04/18



Form I&S Operational 1

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-18

Operator: Port Talbot Works

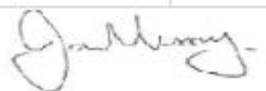
Location: Port Talbot Works

Permit: BL7108

Release Points: Iron plating continued

Liquid Iron Plating Operations (Iron Plating Pit)			
Date	Time	Tonnes	Reason
23/02/18	16:37	257	Metallurgy Reasons
23/02/18	04:15	126	Metallurgy Reasons
26/02/18	16:38	250	Metallurgy Reasons
26/02/18	15:45	240	Metallurgy Reasons
26/02/18	11:09	240	Metallurgy Reasons
26/02/18	10:24	250	Metallurgy Reasons
25/02/18	20:43	243	Metallurgy Reasons
25/02/18	19:56	285	Metallurgy Reasons
25/02/18	18:57	190	Metallurgy Reasons
25/02/18	15:13	209	Metallurgy Reasons
25/02/18	14:29	218	Metallurgy Reasons
25/02/18	13:07	190	Metallurgy Reasons
28/02/18	23:11	190	Metallurgy Reasons
28/02/18	22:26	200	Metallurgy Reasons
28/02/18	22:12	232	Metallurgy Reasons
28/02/18	21:56	228	Metallurgy Reasons
28/02/18	21:34	247	Metallurgy Reasons
28/02/18	20:34	194	Metallurgy Reasons
27/02/18	02:11	237	Metallurgy Reasons
27/02/18	01:27	228	Metallurgy Reasons
26/02/18	22:56	228	Metallurgy Reasons
26/02/18	22:18	247	Metallurgy Reasons
03/03/18	08:04	279	Metallurgy Reasons
03/03/18	01:18	225	Metallurgy Reasons
03/03/18	00:12	278	Metallurgy Reasons
02/03/18	08:16	441	Metallurgy Reasons
02/03/18	07:47	190	Metallurgy Reasons
02/03/18	05:48	247	Metallurgy Reasons
01/03/18	05:09	192	Metallurgy Reasons
01/03/18	02:50	288	Metallurgy Reasons
01/03/18	00:15	237	Metallurgy Reasons
28/02/18	23:15	228	Metallurgy Reasons
06/03/18	05:35	218	Metallurgy Reasons
06/03/18	04:15	288	Metallurgy Reasons
06/03/18	02:55	184	Metallurgy Reasons
06/03/18	02:34	228	Metallurgy Reasons
Total		8452	

Signed on behalf of the Operator



Dated 10/04/18

Form I&S Operational 1

RELEASES INTO AIR

Operational summary for quarter end 31-Mar-18

Operator: Port Talbot Works

Location: Port Talbot Works

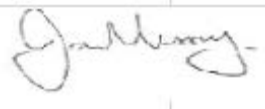
Permit: BL7108

Release Points: Iron plating continued

Liquid Iron Plating Operations (Iron Plating Pit)			
Date	Time	Tonnes	Reason
05/03/18	22:59	278	Metallurgy Reasons
05/03/18	21:47	237	Metallurgy Reasons
03/03/18	22:24	240	Metallurgy Reasons
03/03/18	20:42	278	Metallurgy Reasons
03/03/18	13:24	218	Metallurgy Reasons
03/03/18	12:19	247	Metallurgy Reasons
08/03/18	13:01	207	Metallurgy Reasons
08/03/18	11:33	228	Metallurgy Reasons
08/03/18	11:05	217	Metallurgy Reasons
06/03/18	15:05	228	Metallurgy Reasons
06/03/18	13:54	250	Metallurgy Reasons
06/03/18	12:36	285	Metallurgy Reasons
06/03/18	10:22	256	Metallurgy Reasons
06/03/18	09:36	237	Metallurgy Reasons
06/03/18	07:10	282	Metallurgy Reasons
06/03/18	06:10	228	Metallurgy Reasons
15/03/18	22:52	232	Metallurgy Reasons
15/03/18	22:13	273	Metallurgy Reasons
14/03/18	17:58	278	Metallurgy Reasons
14/03/18	01:26	153	Metallurgy Reasons
13/03/18	23:37	178	Metallurgy Reasons
13/03/18	21:56	278	Metallurgy Reasons
13/03/18	20:51	217	Metallurgy Reasons
24/03/18	00:49	208	Metallurgy Reasons
24/03/18	00:20	180	Metallurgy Reasons
23/03/18	23:35	256	Metallurgy Reasons
23/03/18	22:46	240	Metallurgy Reasons
23/03/18	21:40	228	Metallurgy Reasons
23/03/18	20:24	217	Metallurgy Reasons
23/03/18	19:19	219	Metallurgy Reasons
23/03/18	18:09	180	Metallurgy Reasons
16/03/18	00:24	228	Metallurgy Reasons
15/03/18	23:58	285	Metallurgy Reasons
29/03/18	16:22	278	Metallurgy Reasons
25/03/18	23:44	285	Metallurgy Reasons
25/03/18	22:35	288	Metallurgy Reasons
Total		8617	

Signed on behalf of the Operator

Dated 10/04/18



Form I&S Operational 1

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-18

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	
03-Jan-18	05:05	7h 30m	Operational	hilene and stockpile full.
03-Jan-18	11:31	56m	Mechanical	Pallet change 17 on pallet 57 off
05-Jan-18	10:48	10h 17m	Access to restricted area	Fan Inspections
05-Jan-18	17:15	45m	Mechanical	Pallet 38 off and 59 on. and issues with 1047 DDV
05-Jan-18	20:51	1h 42m	Mechanical	Delay to clean, track and tension 1064 conveyor
06-Jan-18	10:53	1h 7m	Electrical	1007 Shuttle stopped over south travel limit. Found cables detached from north limit.
06-Jan-18	16:45	6h 40m	Operational	Stockpile and hi line bunkers full. B/f reduced output.
07-Jan-18	00:26	16m	Mechanical	Stopped to cut a stringer off 1064
07-Jan-18	02:52	54m	Operational	Stopped for hot patch on cooler, due to furnace issues did not want to use cannon. Stock full.
05-Jan-18	18:00	43m	Access to restricted area	1047 limit knocked off, reinstating same.
07-Jan-18	08:55	3h 22m	Mechanical	1064 Con belt change carried out.
07-Jan-18	12:37	20m	Access to restricted area	Chain conveyor on stop, striker adjusted on ddv limit.
07-Jan-18	14:36	23m	Electrical	3 x pilots out in a row. Slam shut activated when restarting.
08-Jan-18	00:26	17m	Electrical	hood tripped on 3 consecutive pilots, 10, 11, 12 and slam shut needed resetting.
08-Jan-18	09:36	27m	Mechanical	pallet change due to hole in pallet, 133 off - 15 on
08-Jan-18	16:48	1h 30m	Load Management	1 hr load man.
09-Jan-18	16:49	1h 35m	Load Management	load management called 17:00 - 18:00.
10-Jan-18	04:03	12h 42m	Planned Maintenance	18hr planned maintenance
11-Jan-18	02:40	26m	Mechanical	hole in pallet 82 off 33 on.
11-Jan-18	05:45	30m	Access to restricted area	Resetting air compressor.
11-Jan-18	10:19	41m	Mechanical	delay due to loss of limestone
11-Jan-18	11:00	1h 50m	Access to restricted area	delay to reset/clean filters on DDV compressor
11-Jan-18	16:55	55m	Load Management	Load management called fro 17:00 - 18:00
12-Jan-18	19:25	42m	Access to restricted area	950 chain conv
12-Jan-18	07:35	3h 32m	Mechanical	1023 deck plate failed
12-Jan-18	12:49	6h 9m	Mechanical	1023 screen fractures
13-Jan-18	19:55	1h 7m	Electrical	U/Speed replaced on 1035, fuse replaced on 1034.
10-Jan-18	16:45	1h 40m	Load Management	Load Management
10-Jan-18	18:25	4h 15m	Planned Maintenance	Completed Planned Maintenance after Load Management period.
14-Jan-18	08:10	2h 2m	Operational	Plant stop hi line full
14-Jan-18	10:15	32m	Operational	Stop taken for sinter sample 1027 Cold crusher failed, belts adjusted...
15-Jan-18	09:47	35m	Operational	Stop taken to take ISO sample from 1027 conveyor, rollers refitted 1027 and weld repairs 1020 feeder
16-Jan-18	10:50	18m	Mechanical	loss of burnt lime due to loss of weight screwfeeder freezing
17-Jan-18	03:38	16m	Mechanical	Stop 03:38-03:54 Pallet change 54 off / 47 on.
17-Jan-18	07:03	10h 52m	Access to restricted area	Fan checks and repairs. During same Pallet change 126 off - 140 on
18-Jan-18	08:19	16m	Electrical	1066 conveyor stopped. Motor speed increased to allow fluid coupling to cope with excess material load and conveyor restarted.
19-Jan-18	10:12	40m	Mechanical	Stop to clear material b/u and replace a broken return roller on 1003-con with a new roller and hangers.
20-Jan-18	02:38	12h 31m	Mechanical	previous weld repairs failed.
20-Jan-18	19:47	1h 13m	Operational	Stop to allow Sinter to cool on the cooler.
20-Jan-18	08:24	17h 36m	Mechanical	South West support roller bearing failure along with issues girth gear.

Signed on behalf of the Operator

Dated

10/04/18

Form Sinter Operational

RELEASES INTO AIR

Form Sinter Operational Cont.

Operational summary for quarter ending

31-Mar-18

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

Iron Ore Sintering - Record of strand stoppages > 30 minutes				
Date	Time		Planned/ Unplanned	Reason
	Start	Duration (mins)		
23-Jan-18	05:47	1h 41m	Operational	WG dust levels approaching breaching levels.
23-Jan-18	13:51	11h 2m	Mechanical	Conveyor belt parted.
24-Jan-18	00:57	21m	Environmental	Stop 00:57 - 01:18hrs 1004 lump detector activated
24-Jan-18	11:25	6h 55m	Mechanical	Bolts sheared around support ring.
24-Jan-18	11:30	6h 55m	Mechanical	11:25 - 18:20 Mixer repairs to girth ring after bolts sheared.
25-Jan-18	12:00	6h 55m	Mechanical	Gear gear repairs.
25-Jan-18	19:58	1h 7m	Load Management	return roller replacements of brackets and rollers.
25-Jan-18	21:50	26m	Mechanical	951 DDV upper arm in alarm pressure reduced.
25-Jan-18	12:16	23m	Mechanical	951 ddv upper arm in alarm pressure reduced.
26-Jan-18	18:05	47m	Mechanical	delay to inspect and repair 1006 electrical panel
27-Jan-18	13:39	7h 12m	Mechanical	screen change due to carriage failure.
28-Jan-18	01:21	21m	Mechanical	1027 tracked over causing material to spill and bury tail end, plant stopped while waiting for bobcat and had dug not to cause any damage.
30-Jan-18	03:36	39m	Mechanical	Delay to repair damaged pipe work on 950 and reinstate ddv
31-Jan-18	04:03	24m	Mechanical	Stopped to prep plant for PM
31-Jan-18	04:03	18h 26m	Operational	Planned maintenance
31-Jan-18	02:23	18h 26m	Operational	Planned maintenance
01-Feb-18	02:47	23m	Mechanical	3 more fields failed, dust elevated stopped to switch fields back in.
01-Feb-18	07:16	26m	Mechanical	1047 Lower arm alarming
01-Feb-18	16:23	30m	Planned Maintenance	Reset fields
01-Feb-18	07:13	27m	Planned Maintenance	Adjusted 1047 DDV
02-Feb-18	09:45	16m	Mechanical	Loss of GBL, sinter through
02-Feb-18	04:10	4h 5m	Mechanical	Pallet 22 change, 1005 R/Rollers, 1047 adjustment, 1020 deck check, 1008/09 cleaning
04-Feb-18	18:37	30m	Load Management	950 lower arm stuck
04-Feb-18	07:29	9h 12m	Mechanical	Pressure issues with 950
05-Feb-18	12:21	1h 1m	Load Management	angle iron failed on screen, weld repair carried out
05-Feb-18	14:04	20m	Mechanical	upper arm failed, bolt lose for plunger limit - same adjusted okay
05-Feb-18	16:30	31m	Load Management	upper arm failed to make, pressure adjusted from 6.99 to 6.8 bar.
05-Feb-18	19:00	2h 16m	Operational	Load management called from 17:00 - 18:30
06-Feb-18	03:04	31m	Operational	Pallet change - 50 off and 56 on
06-Feb-18	10:30	48m	Mechanical	SWGf tripped on Motor NDE Horizontal vibration
06-Feb-18	14:35	49m	Mechanical	Hood tripped - No 2 and 3 pilots out.
06-Feb-18	15:41	2h 30m	Operational	Load management
06-Feb-18	16:30	3h 11m	Mechanical	Delay to carry out weld repairs to South fan.
07-Feb-18	11:24	33m	Operational	Investigate/repair issue with 1047 upper arm
07-Feb-18	23:00	2h 16m	Mechanical	Load Management call No15
07-Feb-18	12:20	3h 45m	Operational	Inspection of North and South fans.see below for other work carried out.
08-Feb-18	16:45	1h 45m	Operational	Load Managent call No16
08-Feb-18	18:30	1h 25m	Operational	repairs to outer dip rail entry

Signed on behalf of the Operator

Dated

10/04/18

Form Sinter Operational

RELEASES INTO AIR

Form Sinter Operational Cont.

Operational summary for quarter ending

31-Mar-18

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

Iron Ore Sintering - Record of strand stoppages > 30 minutes			
Date	Time		Reason
	Start	Duration (mins)	
			Planned/
09-Feb-18	17:34	34m	Unplanned
10-Feb-18	16:40	24m	Unplanned
11-Feb-18	11:24	23m	Planned
11-Feb-18	23:00	1h 20m	Unplanned
12-Feb-18	12:20	2h 58m	Unplanned
13-Feb-18	05:05	40m	Unplanned
13-Feb-18	12:35	3h 19m	Unplanned
13-Feb-18	17:20	2h 4m	Unplanned
14-Feb-18	09:00	21m	Unplanned
15-Feb-18	12:32	2h 2m	Unplanned
16-Feb-18	10:58	2h 15m	Unplanned
17-Feb-18	02:15	26m	Unplanned
17-Feb-18	10:58	40m	Unplanned
18-Feb-18	02:15	2h 25m	Unplanned
18-Feb-18	23:31	21m	Unplanned
19-Feb-18	10:30	39m	Unplanned
20-Feb-18	20:41	1h 10m	Unplanned
21-Feb-18	01:51	2h 2m	Unplanned
21-Feb-18	23:28	17m	Unplanned
21-Feb-18	09:54	2h 54m	Unplanned
22-Feb-18	12:29	19h 10m	Unplanned
23-Feb-18	12:52	23m	Unplanned
22-Feb-18	02:55	25m	Unplanned
26-Feb-18	10:11	1h 54m	Unplanned
26-Feb-18	22:34	2h 40m	Unplanned
27-Feb-18	18:00	2h 39m	Planned
28-Feb-18	12:25	1h 28m	Unplanned
28-Feb-18	17:45	2h 15m	Unplanned
28-Feb-18	08:22	22h 30m	Unplanned
02-Mar-18	10:59	22m	Unplanned
02-Mar-18	14:38	1h 1m	Unplanned
02-Mar-18	23:28	1h 9m	Unplanned
03-Mar-18	00:07	40m	Unplanned
03-Mar-18	06:21	36m	Unplanned
03-Mar-18	07:00	1h 33m	Unplanned
03-Mar-18	11:44	1h 38m	Unplanned
03-Mar-18	18:23	24m	Unplanned
04-Mar-18	13:20	17m	Unplanned

Signed on behalf of the operator
Dated: 10-Apr-18

RELEASES INTO AIR

Form Sinter Operational Cont.

Iron Ore Sintering - Record of strand stoppages > 00-Jan-00

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

[illegible]

Signed on behalf of the operator
Dated: 10-Apr-18

Johnny