

RELEASES INTO AIR

Operational Summary for the month Oct-2020

Operator: Tata Steel UK Ltd

Permit: BL7108 / RP3730BV

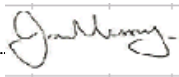
Location: Port Talbot Works

Release Point: A1

Day	% max throughput	% data capture	% EP availability	% UIT availability	Sinter Blend			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-Oct-20	71	100%	100%	100%	0.015	0.009	10.98%	31	44	32	21	7	56	31	20	9
02-Oct-20	71	100%	100%	100%	0.015	0.009	10.98%	46	58	45	35	7	85	46	32	12
03-Oct-20	70	100%	100%	100%	0.015	0.009	10.98%	31	38	31	22	5	46	31	19	7
04-Oct-20	72	100%	100%	100%	0.017	0.006	11.01%	46	77	46	32	14	132	46	30	22
05-Oct-20	72	100%	100%	100%	0.017	0.006	11.01%	49	87	49	31	17	162	49	27	31
06-Oct-20	56	100%	100%	100%	0.017	0.006	11.01%	34	52	34	0	12	81	34	0	20
07-Oct-20	60	100%	100%	100%	0.017	0.006	11.01%	13	39	15	0	16	50	13	0	17
08-Oct-20	71	100%	100%	98%	0.02	0.006	12.05%	23	45	21	0	17	74	23	0	19
09-Oct-20	67	100%	100%	100%	0.02	0.006	12.05%	40	49	39	21	8	67	40	7	12
10-Oct-20	79	100%	100%	100%	0.02	0.006	12.05%	47	61	47	37	8	90	47	31	14
11-Oct-20	67	100%	100%	100%	0.02	0.006	12.05%	46	76	47	28	14	103	46	0	20
12-Oct-20	16	100%	100%	100%	0.019	0.01	10.79%	21	49	19	0	19	116	21	0	28
13-Oct-20	67	100%	100%	90%	0.019	0.01	10.79%	83	125	84	51	22	262	83	32	47
14-Oct-20	75	100%	100%	100%	0.019	0.01	10.79%	47	57	48	39	5	62	47	32	9
15-Oct-20	71	100%	100%	100%	0.019	0.01	10.79%	60	83	61	45	11	114	60	22	22
16-Oct-20	64	100%	100%	100%	0.02	0.001	12.96%	33	41	32	19	6	62	33	1	14
17-Oct-20	76	100%	100%	100%	0.02	0.001	12.96%	46	68	46	31	12	132	46	29	20
18-Oct-20	74	100%	100%	100%	0.02	0.001	12.96%	46	56	46	36	5	59	46	29	9
19-Oct-20	68	100%	100%	99%	0.02	0.001	12.96%	46	84	52	22	18	119	52	0	25
20-Oct-20	24	100%	100%	91%	0.019	0.008	11.31%	46	128	29	0	37	204	34	0	57
21-Oct-20	67	100%	100%	89%	0.019	0.008	11.31%	45	122	49	22	23	96	44	4	21
22-Oct-20	66	100%	100%	89%	0.019	0.008	11.31%	45	47	34	10	10	58	35	0	15
23-Oct-20	82	100%	100%	100%	0.019	0.008	11.31%	45	95	52	35	17	152	52	29	27
24-Oct-20	63	100%	100%	100%	0.019	0.008	11.31%	45	58	39	20	10	94	39	0	22
25-Oct-20	80	100%	100%	100%	0.016	0.001	7.24%	46	55	43	32	7	71	42	28	13
26-Oct-20	72	100%	100%	100%	0.016	0.001	7.24%	47	54	40	27	8	90	40	23	16
27-Oct-20	40	100%	100%	84%	0.016	0.001	7.24%	46	126	42	0	37	176	43	0	50
28-Oct-20	67	100%	100%	99%	0.016	0.001	7.24%	48	53	36	25	10	66	35	1	14
29-Oct-20	61	100%	100%	99%	0.021	0.009	10.16%	49	30	22	10	6	42	22	0	11
30-Oct-20	54	100%	100%	100%	0.021	0.009	10.16%	50	40	23	8	9	78	22	0	15
31-Oct-20	64	100%	100%	100%	0.021	0.009	10.16%	57	73	50	33	13	89	50	23	16
Month ave	65	100%	100%	98%	0.02	0.01	0.1	44	-	40	-	-	-	40	-	-
Month max.	82	-	-	-	0.02	0.01	0.1	83	128	-	-	-	262	-	-	-
Limit	-	-	-	-	0.06	-	-	40	-	-	-	-	-	-	-	-

* No data available.

Signed on behalf of the Operator



Dated 26/01/2021

Form Sinter CEMS

RELEASES INTO AIR

Operational Summary for the month Nov-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-Nov-20	66	100%	100%	100%	0.021	0.009	10.16%	23	41	22	14	7	57	23	0	11
02-Nov-20	71	100%	100%	100%	0.016	0.01	11.28%	38	51	37	24	8	62	38	25	11
03-Nov-20	65	100%	100%	100%	0.016	0.01	11.28%	28	39	29	21	5	59	28	0	12
04-Nov-20	38	100%	100%	100%	0.016	0.01	11.28%	34	77	34	0	23	145	34	0	38
05-Nov-20	65	100%	100%	100%	0.016	0.01	11.28%	25	45	25	14	9	64	25	0	15
06-Nov-20	73	100%	100%	99%	0.016	0.01	11.28%	33	49	32	14	11	71	33	17	13
07-Nov-20	70	100%	100%	100%	0.018		11.50%	16	41	18	0	18	47	16	0	19
08-Nov-20	69	100%	100%	100%	0.018		11.50%	29	49	25	0	20	56	29	0	22
09-Nov-20	48	100%	100%	100%	0.018		11.50%	40	73	43	5	19	106	40	0	30
10-Nov-20	34	100%	100%	100%	0.018		11.50%	19	61	17	0	19	140	19	0	30
11-Nov-20	60	100%	100%	97%	0.018	0.008	11.52%	36	47	35	15	9	69	36	-2	20
12-Nov-20	72	100%	100%	100%	0.018	0.008	11.52%	43	56	43	34	6	57	43	31	9
13-Nov-20	65	100%	100%	100%	0.018	0.008	11.52%	47	78	46	28	14	157	47	15	26
14-Nov-20	57	100%	100%	100%	0.018	0.008	11.52%	51	102	54	30	23	233	51	18	42
15-Nov-20	15	100%	100%	100%	0.018		8.94%	69	164	65	0	49	264	69	0	77
16-Nov-20	72	100%	100%	100%	0.018		8.94%	48	103	52	27	26	130	48	23	31
17-Nov-20	75	100%	100%	100%	0.018		8.94%	47	58	46	31	7	68	47	33	10
18-Nov-20	7	100%	100%	100%	0.018		8.94%	9	69	13	0	23	91	9	0	26
19-Nov-20	4	100%	100%	100%	0.018		8.94%	7	109	21	0	35	171	23	0	50
20-Nov-20	50	100%	100%	100%	0.018		8.94%	4	97	43	18	22	118	41	3	30
21-Nov-20	65	100%	100%	100%	0.018		8.94%	2	35	23	14	5	46	25	14	8
22-Nov-20	68	100%	100%	100%	0.017		8.67%	9	50	40	25	6	67	39	12	13
23-Nov-20	70	100%	100%	100%	0.017	0.008	8.67%	17	50	40	24	6	59	41	28	9
24-Nov-20	64	100%	100%	100%	0.017	0.008	8.67%	18	55	38	19	12	70	37	0	18
25-Nov-20	48	100%	100%	100%	0.018	0.01	8.72%	18	147	56	16	36	250	59	0	51
26-Nov-20	73	100%	100%	81%	0.018	0.01	8.72%	19	65	43	33	8	59	42	25	9
27-Nov-20	70	100%	100%	100%	0.018	0.01	8.72%	19	73	54	28	13	130	52	14	24
28-Nov-20	73	100%	100%	100%	0.018	0.01	8.72%	19	57	44	26	9	90	45	29	15
29-Nov-20	68	100%	100%	100%	0.017		9.06%	19	67	45	37	7	92	47	32	14
30-Nov-20	62	100%	100%	100%	0.017		9.06%	19	93	58	21	20	167	55	0	32
Month ave	58	100%	100%	99%	0.02	0.01	0.1	27	-	38	-	-	-	38	-	-
Month max.	75	-	-	-	0.02	0.01	0.1	69	164	-	-	-	264	-	-	-
Limit	-	-	-	-	0.06	-	-	40	-	-	-	-	-	-	-	-

* No data available.

Signed on behalf of the Operator

Dated 26/01/2021

Form Sinter CEMS

RELEASES INTO AIR

Operational Summary for the month Dec-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-Dec-20	8	100%	100%	99%	0.017		9.06%	13	79	10	0	26	248	13	0	51
02-Dec-20	0	100%	100%	100%	0.017		9.06%	0	0	0	0	0	0	0	0	0
03-Dec-20	52	100%	100%	99%	0.017		9.06%	54	172	52	0	47	200	54	0	57
04-Dec-20	71	100%	100%	100%	0.017		9.06%	44	66	41	26	10	89	44	27	16
05-Dec-20	69	100%	100%	100%	0.017	0.009	9.06%	46	73	48	34	12	93	46	31	14
06-Dec-20	52	100%	100%	100%	0.017	0.009	9.06%	34	56	35	13	15	65	34	0	20
07-Dec-20	59	100%	100%	100%	0.017	0.009	9.06%	15	49	17	0	19	77	15	0	22
08-Dec-20	68	100%	100%	100%	0.017	0.009	9.06%	37	70	34	0	28	76	37	0	29
09-Dec-20	60	100%	100%	100%	0.017	0.008	9.87%	45	70	44	23	14	118	45	0	27
10-Dec-20	61	100%	100%	100%	0.017	0.008	9.87%	33	56	35	11	11	58	33	0	16
11-Dec-20	56	100%	100%	100%	0.017	0.008	9.87%	27	37	26	1	9	52	27	0	13
12-Dec-20	72	100%	100%	100%	0.017	0.008	9.87%	47	61	48	39	7	80	47	31	13
13-Dec-20	71	100%	100%	100%	0.017	0.001	9.87%	53	83	52	34	13	116	53	32	21
14-Dec-20	72	100%	100%	98%	0.017		9.87%	55	73	53	44	8	91	55	38	14
15-Dec-20	64	100%	100%	100%	0.017		9.87%	76	99	75	46	14	150	76	7	30
16-Dec-20	68	100%	100%	100%	0.017		9.68%	44	93	47	31	13	83	44	12	13
17-Dec-20	66	100%	100%	96%	0.017		9.68%	50	73	49	38	9	101	50	13	17
18-Dec-20	73	100%	100%	95%	0.017		9.68%	62	94	57	48	9	159	62	34	24
19-Dec-20	67	100%	100%	100%	0.017		9.68%	62	92	55	40	14	77	50	36	12
20-Dec-20	64	100%	100%	100%	0.017		5.81%	62	108	56	22	25	168	56	0	34
21-Dec-20	68	100%	100%	100%	0.017		5.81%	61	49	36	27	6	71	36	0	13
22-Dec-20	41	100%	100%	86%	0.017		5.81%	61	118	43	0	30	219	42	0	49
23-Dec-20	57	100%	100%	96%	0.017		7.67%	60	43	23	0	10	55	25	0	14
24-Dec-20	66	100%	100%	100%	0.017		7.67%	60	48	34	16	8	51	34	0	13
25-Dec-20	64	100%	100%	100%	0.017		7.67%	59	48	36	13	11	62	35	0	15
26-Dec-20	50	100%	100%	100%	0.017		7.67%	59	49	27	0	13	97	27	0	22
27-Dec-20	66	100%	100%	100%	0.018		6.37%	58	59	44	28	10	73	46	23	12
28-Dec-20	57	100%	100%	100%	0.018		6.37%	57	94	48	16	21	125	47	0	30
29-Dec-20	56	100%	100%	99%	0.018		6.37%	57	74	42	17	16	152	41	0	30
30-Dec-20	52	100%	100%	85%	0.018		6.37%	59	67	36	8	16	144	38	0	29
31-Dec-20	70	100%	100%	100%	0.018		6.37%	61	137	82	48	26	114	82	16	29
Month ave	59	100%	100%	98%	0.02	0.01	0.1	49	-	42	-	-	-	42	-	-
Month max.	73	-	-	-	0.02	0.01	0.1	76	172	-	-	-	248	-	-	-
Limit	-	-	-	-	0.06	-	-	40	-	-	-	-	-	-	-	-

* No data available.

Signed on behalf of the Operator

Dated 26/01/2021

Form Sinter CEMS

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

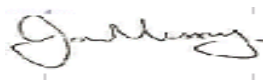
Permit: BL7108 / NP3938GZ

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	68.6 (+/- 4.1)	174.5 (+/- 19.2)	209.7 (+/-23.0)	6250 (+/- 738.2)
Measured oxygen content (%)	17.2	17.3	17.3	17.3
Measured conc. according to condition 10.1.3a (17%O2)	72	189	227	6771
Sampling method used	BS EN 13284	BS 6069	ISO 10849	BS ISO 12039
Analytical method used	Gravimetric	*EC	*EC	*EC
Date of sampling	23-Nov-20	23-Nov-20	23-Nov-20	23-Nov-20
Sample start time	12:02	12:35	12:35	12:35
Sample end time	14:22	13:55	13:55	13:55
Sample duration (mins)	140	80	80	80
Limit of detection	-0.08	1.6	1.4	0.0
Continuous monitor result over the sampling period	38.5			
Process status at the time of sampling				
Mean sulphur content of sinter blend in use (%)	0.017	0.017	0.017	0.017
Reverts content of sinter blend in use (%)	0.1	0.1	0.1	0.1
Mean chloride content of sinter blend in use (%)	0.01	0.01	0.01	0.01
Throughput during sampling period (% of maximum)	60.0	60.0	60.0	60.0

* EC - electrochemical cell

Signed on behalf of the Operator



Dated

26/01/21

RELEASES INTO AIR

Operational Summary for quarter ending 31-Dec-20

Operator: Tata Steel Strip Products UK

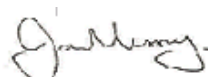
Location: Port Talbot Works

Permit: BL7108

Release Points:

PARTICULATE MATTER (DISCONTINUOUS MONITORING)		
Release Point	A6	A7
Time and date of sampling	08-Oct-20 10:27	09-Oct-20 10:43
Flowrate (Nm3/hr)	133,128	134,854
Particulate measured conc. (mg/Nm3)	0.5 (+/-1.0)	1.2 (+/-0.8)
Particulate limit (mg/Nm3)	10	10
Sampling method used	BS EN 13284	BS EN 13284
Analytical method used	Gravimetric	Gravimetric
Fuel Usage		
Natural gas (%)	6%	0%
BF gas (%)	60%	96%
Coke oven gas (%)	10%	4%
BOS (%)	24%	

Signed on behalf of the Operator



Dated

20/01/2021

Form Blast Furnace DCM Part

Operational summary for the six months to 31/12/2020

Operator: Tata Steel Strip Products UK

Location: Port Talbot Works

Permit: BL7108 / RP3730BV

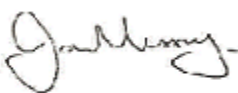
Release Points: A39

PARTICULATE MATTER (DISCONTINUOUS MONITORING)		
Release Point	A39 HY1	A39 HY2
Time and date of sampling	23-Jun-20 10:21 - 13:49	19-Nov-20 11:04 - 13:08
Flowrate (Nm3/hr)	32756	32849
Particulate measured conc. (mg/Nm3)	2.8	5.4
Particulate limit (mg/Nm3)	25	25
Sampling method used	BS EN 13284	BS EN 13284
Analytical method used	Gravimetric	Gravimetric

Form GCI DCM Part

Signed on behalf of the Operator

Dated 20/01/2021



RELEASES INTO AIR

Operational summary for quarter ending 31-Dec-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	Oct	15	1.1	0.4	4.2	16.3	0.4	0.3	0.6	100%	100%
	Nov	Daily mean	1.0	0.4	1.0	18.4	0.0	17.6	3.7	100%	75%
	Dec		0.9	0.5	1.0	8.6	0.0	0.8	0.7	100%	75%

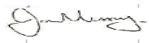
75% Data During November due to replacement of Fan 3A

75% Data During December due to replacement of Fan 3A

Signed on behalf of the Operator

Dated

20/01/21



Form I&S CEMS Part 3

RELEASES INTO AIR

Operational summary for quarter ending 31-Dec-20

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

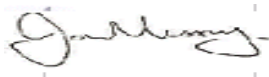
Permit: BL7108

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	Oct	15	2	0.8	0.2	2.9	0.4	0.3	2.5	100%	100%
	Nov		2	0.8	0.3	3.5	0.3	0.5	1.4	100%	100%
	Dec		3	0.7	0.6	6.2	0.0	1.0	1.7	100%	100%
A8B	Oct	15	1	0.2	0.1	1.2	0.0	0.2	10.5	100%	100%
	Nov		1	0.2	0.2	1.5	0.0	0.2	0.6	100%	100%
	Dec		1	0.1	0.3	1.5	0.0	0.3	0.5	100%	100%
A9	Oct	15	12	0.0	3.2	28.2	0.4	4.0	1.2	100%	100%
	Nov		7	0.0	2.1	16.6	1.8	2.2	0.8	100%	100%
	Dec		6	0.0	1.7	22.7	0.4	2.8	0.6	100%	100%
A2*	Oct	30	42	5.7	7.3	54.9	0.0	11.3	24.1	100%	100%
	Nov		20	1.1	7.3	42.5	0.0	7.9	8.6	100%	100%
	Dec		26	0.7	6.4	58.5	0.0	9.5	20.3	100%	100%
A10	Oct	15	16	0.6	4.2	16.3	2.0	4.2	4.1	100%	100%
	Nov		6	2.1	1.0	18.4	4.2	2.9	4.0	100%	100%
	Dec		5	0.2	1.0	8.6	0.5	1.8	2.2	100%	100%
A14	Oct	15	3	1.9	0.2	4.1	2.7	0.4	2.4	100%	100%
	Nov		3	2.0	0.2	4.4	2.6	0.4	2.5	100%	100%
	Dec		3	1.8	0.2	3.2	2.8	0.1	2.4	100%	100%
A15	Oct	15	5	1.8	0.6	6.7	2.7	1.1	2.8	100%	100%
	Nov		3	1.9	0.3	7.1	2.3	0.8	2.5	100%	100%
	Dec		2	1.1	0.3	3.2	2.4	0.2	2.0	100%	100%
A16	Oct	15	4	1.4	0.5	6.3	2.4	1.1	2.4	100%	100%
	Nov		3	1.5	0.3	5.9	1.9	0.8	2.1	100%	100%
	Dec		2	1.0	0.3	2.7	2.1	0.2	1.8	100%	100%

*A2 ELV discussed with NRW as derogation

Signed on behalf of the Operator



Dated

20/01/21

Form I&S CEMS Parts 1 & 2

RELEASES INTO AIR

Operational summary for quarter ending 31-Dec-20

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

Permit: BL7108 / PP3738SQ

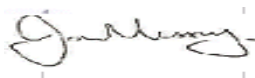
Release Points: A6, A7, A21, A22, A24 & A46

VARIOUS DISCONTINUOUS MONITORING					
Release Point	A21/A22	A6	A7	A39 # (6 Monthly)	A46* (annual)
Parameter	Chloride (as HCl)	Carbon monoxide			Oxides of nitrogen
Time and date of sampling	27-Nov-20 11:44	08-Oct-20 11:07	09-Oct-20 10:01	19-Dec-20 11:43	- -
Flowrate (Nm3/hr)	15,061	42366	33166	32,849	-
Measured conc.(mg/Nm3)	0.02 (+/-0.8)	6250	6250	189 (+/-4.0)	-
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 (%)		6%	0%		
BF gas (%)		60%	82%		
Coke oven gas (%)		10%	18%		
BOS Gas (%)		24%			

A39 has a 6 monthly monitoring requirement

Signed on behalf of the Operator

Dated 20/01/21



Form I&S DCM Misc

RELEASES INTO AIR

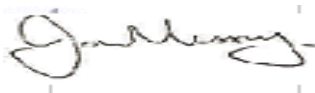
Operational summary for quarter ending

31-Dec-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 - NO _x (DISCONTINUOUS MONITORING)								
Release Point	A6	A7	A30	A31	A32	A34A	A34B	A39 #
Time and date of sampling	08-Oct-20 10:32	09-Oct-20 10:34				01-Dec-20 13:38	01-Dec-20 11:25	19-Dec-20 11:43
Flowrate (Nm ³ /hr)	42,366	33,166				17281	19585	32849
NO _x measured conc.(mg/Nm ³) **	78 (+/-2.9)	63 (+/-2.2)				923 (+/- 35.2)	435 (+/-19.7)	54 (+/-1.2)
Oxygen content (%)	6.8							
NO _x limits (mg/Nm ³)	100	100				1800	1800	115
Sampling method used	ISO 10849	ISO 10849				ISO 10849	ISO 10849	ISO 10849
Analytical method used	EC *	EC *				EC *	EC *	EC *
Continuous hourly monitoring result over the period								
Fuel usages over the sampling period								
Natural gas (%)	6%	0%				64%	75%	100%
BF gas (%)	60%	82%						0%
Coke oven gas (%)	10%	18%				36%	25%	
BOS Gas (%)	24%							

A39 has a 6 monthly monitoring requirement.

Signed on behalf of the Operator**Dated** 20/01/21**Form I&S DCM NO_x**

RELEASES INTO AIR

Operational summary for quarter ending

31-Dec-20

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

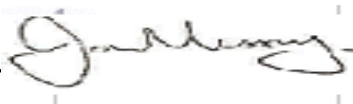
Permit: BL7108 / NP3938GZ

Release Points: A6, A7, A34A & A34B

SULPHUR DIOXIDE - SO ₂ (DISCONTINUOUS MONITORING)					
Release Point	A6	A7	A34A	A34B	A39 #
Time and date of sampling	08-Oct-20 10:32	09-Oct-20 10:34	01-Dec-20 13:38	01-Dec-20 11:25	19-Dec-20 11:43
Flowrate (Nm ³ /hr)	42366	33166	17281	19585	32849
SO ₂ measured conc.(mg/Nm ³)	112.0 (+/- 4.4)	98.5 (+/- 3.6)	471 (+/-20.2)	17 (+/-3.5)	0 (+/- 0.0)
SO ₂ limits (mg/Nm ³)	200	200	1400	1400	260
Sampling method used	BS6069	BS6069	BS6069	BS6069	BS6069
Analytical method used	EC *	EC *	EC *	EC *	EC *
Continuous hourly monitoring result over the period					
Fuel usages over the sampling period					
Natural gas (%)	6%	0%	64%	75%	100%
BF gas (%)	60%	82%			0%
Coke oven gas (%)	10%	18%	36%	25%	
BOS Gas (%)	24%				

A39 has a 6 monthly monitoring requirement

Signed on behalf of the Operator



Dated

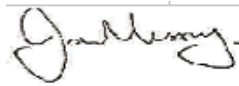
20/01/21

Form I&S DCM SO₂

Liquid Iron Plating Operations (Iron Plating Pit)			
Date	Time	Tonnes	Reason
06/10/20	15:12	160	Metallurgy Reasons
06/10/20	14:37	218	Metallurgy Reasons
06/10/20	09:20	229	Metallurgy Reasons
01/10/20	19:28	184	Metallurgy Reasons
01/10/20	10:38	132	Metallurgy Reasons
01/10/20	10:31	155	Metallurgy Reasons
01/10/20	10:08	227	Metallurgy Reasons
01/10/20	09:54	228	Metallurgy Reasons
08/10/20	16:30	190	Metallurgy Reasons
08/10/20	15:23	217	Metallurgy Reasons
07/10/20	23:23	225	Metallurgy Reasons
07/10/20	22:54	294	Metallurgy Reasons
07/10/20	13:05	240	Metallurgy Reasons
07/10/20	12:08	161	Metallurgy Reasons
07/10/20	09:17	216	Metallurgy Reasons
Total		1078	

Signed on behalf of the Operator

Dated 20/01/21



Form I&S Operational 1

RELEASES INTO AIR

Operational summary for quarter ending

31-Dec-20

Operator: Tata Steel UK Ltd

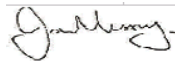
Location: Port Talbot Works

Permit: BL7108

Release Points: Iron plating continued

Liquid Iron Plating Operations (Iron Plating Pit)			
Date	Time	Tonnes	Reason
07/10/20	08:08	294	Metallurgy Reasons
06/10/20	18:48	228	Metallurgy Reasons
06/10/20	17:14	190	Metallurgy Reasons
11/10/20	19:06	294	Metallurgy Reasons
11/10/20	17:58	228	Metallurgy Reasons
11/10/20	03:56	228	Metallurgy Reasons
11/10/20	02:44	206	Metallurgy Reasons
10/10/20	16:09	184	Metallurgy Reasons
10/10/20	15:22	190	Metallurgy Reasons
09/10/20	06:48	190	Metallurgy Reasons
09/10/20	06:08	228	Metallurgy Reasons
09/10/20	05:23	294	Metallurgy Reasons
09/10/20	04:41	161	Metallurgy Reasons
14/10/20	15:22	216	Metallurgy Reasons
14/10/20	14:41	267	Metallurgy Reasons
14/10/20	13:13	236	Metallurgy Reasons
14/10/20	12:34	247	Metallurgy Reasons
14/10/20	02:41	237	Metallurgy Reasons
14/10/20	01:37	161	Metallurgy Reasons
13/10/20	04:34	273	Metallurgy Reasons
12/10/20	10:39	225	Metallurgy Reasons
12/10/20	09:36	190	Metallurgy Reasons
11/10/20	19:44	161	Metallurgy Reasons
03/11/20	04:01	162	Metallurgy Reasons
02/11/20	19:14	153	Metallurgy Reasons
02/11/20	13:39	45	Metallurgy Reasons
23/10/20	11:03	120	Metallurgy Reasons
23/10/20	03:44	60	Metallurgy Reasons
21/10/20	21:02	192	Metallurgy Reasons
21/10/20	13:12	57	Metallurgy Reasons
21/10/20	12:46	60	Metallurgy Reasons
18/10/20	21:19	228	Metallurgy Reasons
18/10/20	20:32	228	Metallurgy Reasons
12/11/20	11:36	227	Metallurgy Reasons
12/11/20	08:21	216	Metallurgy Reasons
11/11/20	00:15	120	Metallurgy Reasons
10/11/20	12:37	60	Metallurgy Reasons
07/11/20	10:31	254	Metallurgy Reasons
07/11/20	09:05	216	Metallurgy Reasons
07/11/20	07:34	190	Metallurgy Reasons
Total		7716	

Signed on behalf of the Operator



Dated 20/01/21

Form I&S Operational 1

Operational summary for quarter ending

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

Permit: BL7108

Release Points: Iron plating continued

Signed on behalf of the Operator

Dated 20/01/21

Form I&S Operational 1

RELEASES TO AIR

Operational summary for quarter ending 31-Dec-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	18585		
	Month 2	34691		
	Month 3	27919		
A13A BOS convertor 2 gas flare	Month 1	37170		
	Month 2	69382		
	Month 3	55837		
A33 Blast furnace gas flare stack no.1	Month 1	70289		
	Month 2	84702		
	Month 3	46220		
A33C Blast furnace gas flare stack no.2	Month 1	144632		
	Month 2	134217		
	Month 3	57308		
A33A Blast furnace gas main number 4 bleeder	Month 1		5	
	Month 2		3	
	Month 3		8	
A33B Blast furnace gas main number 5 bleeder	Month 1		63	
	Month 2		40	
	Month 3		61	
A59 Coke oven gas triple flare	Month 1	54002		
	Month 2	66106		
	Month 3	95215		
Blast furnaces 4 and 5	Month 1			1505616
	Month 2			1717112
	Month 3			1407452
Coke ovens	Month 1			481076
	Month 2			459148
	Month 3			451611
BOS Plant	Month 1			213702
	Month 2			235258
	Month 3			173328

Signed on behalf of the Operator

Dated

20/01/21

Form Installation gas

RELEASES INTO AIR

Operational summary for quarter ending

31-Dec-20

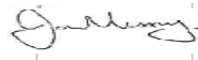
Operator: Port Talbot Works

Location: Port Talbot Works

Permit: BL7108 / RP3730BV

	NOx (tonnes)	Lead (tonnes)	PM10 (tonnes)	CO2 (k tonnes)
Morfa	473			
Iron & Steel	743	1.2	367	1511
Total	1215	1.2	367	1511

Signed on behalf of the Operator



Dated 21/01/21

Form KPI

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

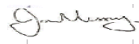
Permit: BL7108 / NP3938GZ

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 condtions
A62 Boiler 3	Oct	4.9	2.1	09-Oct-20	1.5	0.7	100.00%	9.2	6.2%
	Nov	3.8	1.9	05-Nov-20	1.2	0.7	100.00%	9.7	6.3%
	Dec	7.5	2.2	10-Dec-20	1.4	1.1	100.00%	8.6	22.7%
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 condtions
A62 Boiler 3	Oct	31.6	27.7	21-Oct-20	24.5	1.8	100.00%	180.9	6.2%
	Nov *	255.5	133.0	24-Nov-20	54.5	48.0	98.75%	190.2	6.3%
	Dec *	187.9	125.0	06-Dec-20	38.3	40.6	100.00%	159.1	22.7%
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 condtions
A62 Boiler 3	Oct	109.8	43.1	02-Oct-20	24.1	24.7	86.94%	178.6	6.2%
	Nov *	244.1	76.1	24-Nov-20	23.2	48.6	94.44%	170.9	6.3%
	Dec *	117.6	53.5	29-Dec-20	4.6	31.0	87.22%	181.3	22.7%

* New calibration factors for Boiler 3 applied.

Signed on behalf of the Operator



Dated

26/01/21

Form LCPD CEM A62

RELEASES INTO AIR

Operational summary for quarter ending

31-Dec-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	Maximum hourly mean	Date & time of maximum value	Minimum hourly mean	Standard deviation of hourly means	% data capture over month
A50A & A50B Service Boilers LIMIT 40	Oct	5.2	16.9	30/10/20 10:00	1.8	1.7	100%
	Nov	5.4	18.9	05/11/20 10:00	2.1	1.6	100%
	Dec	8.6	267.0	21/12/20 15:00	2.1	13.3	100%
A51 Boiler A5 LIMIT 20	Oct	1.7	111.3	21/10/20 10:00	0.5	5.1	100%
	Nov	1.1	4.7	11/11/20 18:00	0.4	0.6	100%
	Dec	2.0	149.8	19/12/20 13:00	0.5	6.8	100%
A52A Boiler 6 LIMIT 25	Oct	No data					
	Nov						
	Dec						
A52B Boiler 7 LIMIT 25	Oct	No data					
	Nov						
	Dec						
A53 Mitchell limit 20	Oct	2.2	21.7	21/10/20 10:00	1.0	1.1	100%
	Nov	2.3	21.0	14/11/20 03:00	0.0	1.0	100%
	Dec	4.7	142.6	09/12/20 17:00	1.3	10.5	100%

Signed on behalf of the Operator

Dated

26/01/21

Form LCPD CEM Parts

Operational summary for quarter ending 31-Dec-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

Johnny

Dated 26/01/21

Form LCPD CEMS LOG

RELEASES INTO AIR

Operational summary for quarter ending

31-Dec-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	Oct	No data					
	Nov	No data					
	Dec	No data					
A52B Boiler 7	Oct	No data					
	Nov	No data					
	Dec	No data					
A50A & A50B Service Boilers	Oct	100.6	128.0	31/10/2020 5:00	86.7	6.5	100%
	Nov	134.8	404.3	11/11/2020 7:00	4.7	61.0	100%
	Dec	183.0	774.1	26/12/2020 23:00	6.7	102.2	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	Oct	No data					
	Nov	No data					
	Dec	No data					
A52B Boiler 7	Oct	No data					
	Nov	No data					
	Dec	No data					
A50A & A50B Service Boilers	Oct	328.2	965.5	20/10/2020 4:00	121.5	157.2	100%
	Nov	212.0	1003.7	11/11/2020 2:00	33.0	124.9	100%
	Dec	221.7	932.8	27/12/2020 4:00	15.0	213.8	100%

Signed on behalf of the Operator

Dated 26/01/21

Form LCPD CEMS SO2 & NOx

RELEASES INTO AIR

Operational summary for quarter ending

31-Dec-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			A53 Mitchell	A62 No.3
Time and date of sampling	30-Sep-20 12:00	14-Oct-20 10:58			18-Dec-20 09:37	11-Mar-20 16:00
Flowrate (Nm ³ /hr)	72540	6755			18460	97380
NO _x measured** conc. (mg/Nm ³)	119.7 (+/-4.8)	57 (+/-2.6)			16 (+/-9.9)	64 (+/-2.8)
NO _x limit (mg/NM ³)	300 BFG/COG	300 BFG/COG			300 BFG/COG	200 BFG&NG
Sampling method used	EATGN M22	EATGN M22			EATGN M22	EATGN M22
Analytical method used	FTIR	FTIR			FTIR	FTIR
Continuous hourly monitoring result over the period						14
Fuel usages over						
Natural gas (%)	0%	0%			13%	0%
BF gas (%)	49%	87%			87%	100%
Coke oven gas (%)	51%	13%			0%	
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.

* EC - electrochemical cell

Signed on behalf of the Operator

Dated

26/01/21

Form LCPD DCM NO_x

RELEASES INTO AIR

Operational summary for quarter ending

31-Dec-20

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

Permit: BL7108 / NP3938GZ

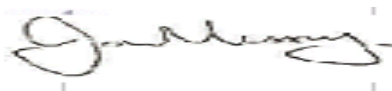
Release Points: A50A/A50B, A51, A52A, A52B, A53 & A62

SULPHUR DIOXIDE - SO ₂ (DISCONTINUOUS MONITORING)						
Release Point	A50A&B Service 4&5	A51 A5			A53 Mitchell	A62 No.3
Time and date of sampling	30-Sep-20 12:00	14-Oct-20 10:58			18-Dec-20 09:37	11-Mar-20 16:00
Flowrate (Nm ³ /hr)	72540	6755			18460	97380
SO ₂ measured conc. (mg/Nm ³)	421 (+/-16.9)	66 (+/- 2.8)			35 (+/- 35.2)	55 (+/- 2.8)
SO ₂ limit (mg/NM ³)	800 BFG/COG	800 BFG/COG			800 BFG/COG	400 BFG&NG
Sampling method used	EATGN M22	EATGN M22			EATGN M22	EATGN M22
Analytical method used	FTIR	FTIR			FTIR	FTIR
Continuous hourly monitoring result over the period						97.7
Fuel usages over						
Natural gas (%)	0%	0%			13%	0%
BF gas (%)	49%	87%			87%	100%
Coke oven gas (%)	51%	13%			0%	
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.

* EC - electrochemical cell

Signed on behalf of the Operator



Dated

26/01/21

Form LCPD DCM SO₂

RELEASES INTO AIR

Operational summary for quarter ending

31-Dec-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	O	0	26860	38980	2699		68539
	N	0	8355	9650	877		18882
	D	0	20809	19121	5643		45572
A50B Service Boiler 5	O	0	16311	40063	3488		59862
	N	0	5195	12573	1080		18849
	D	0	13473	38389	11793		63655
A51 Boiler A5	O	0	8017	56486	1165	562	66231
	N	0	1965	16491	258	597	19312
	D	648	6637	51964	5494	1469	66212
A52A Boiler 6	O	0	4621	11796	3173	1986	21577
	N	0	9160	75846	3012	7959	95977
	D	5248	34416	229914	37007	30492	337077
A52B Boiler 7	O	971	69372	259313	9675	46901	386232
	N	0	11835	83348	3374	8746	107303
	D	7372	34664	228572	41937	30714	343259
A53 Mitchell	O	0	7807	154845	2137		164789
	N	0	1809	44039	312		46160
	D	2050	11569	126238	4922		144779
A62 Boiler 3	O			224464	8642	2385	235492
	N			61697	3111	2233	67042
	D			167448	19938	4560	191945
Total	O	971	132989	785948	30978	51835	1002722
	N	0	38320	303644	12025	19535	373524
	D	15318	121567	861645	126733	67235	1192498

Signed on behalf of the Operator

Dated 20/01/21

Form LCPD Fuels

RELEASES INTO AIR

Operational summary for quarter ending

31-Dec-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	39.1	28.9	4.9	2.6	3.5	3.5	1.7	12.0	12.9	4.0	3.6	0.1	0.1	0.03	0.2	0.2	0.1	0.20
February	8.6	8.6	3.0	25.5	26.4	2.3	2.4	5.2	5.2	1.6	12.0	13.4	2.9	3.5	0.2	0.2	0.05	0.2	0.2	0.1	0.22
March	11.1	11.1	4.1	40.4	33.6	4.7	2.5	6.5	6.5	1.9	14.5	12.2	3.8	3.3	0.2	0.2	0.07	0.3	0.3	0.2	0.21
April	7.6	7.6	2.9	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	12.8	12.8	2.8	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	0.8	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	23.7	0.46	4.2	3.0	4.9	4.9	1.8	0.54	0.46	3.2	3.8	0.1	0.1	0.08	0.01	0.01	0.1	0.16
October	10.8	10.8	3.5	0.75	0.47	4.6	3.9	5.4	5.4	1.8	0.02	0.33	4.3	4.4	0.2	0.2	0.04	0.01	0.01	0.1	0.23
November	9.7	9.7	3.3	0.21	0.19	3.8	3.2	5.1	5.1	1.8	0.21	0.21	3.7	3.4	0.2	0.2	0.03	0.01	0.01	0.1	0.21
December	9.1	9.1	3.7	0.43	0.22	7.1	3.1	4.9	4.9	1.9	0.43	0.43	4.0	3.4	0.3	0.3	0.04	0.01	0.01	0.2	0.25
Totals	120	120	37	371	183	49	32	63	63	18	120	109	40	41	1.9	1.9	0.6	2.0	2.2	1.4	2.2
	912							454							12						
	Service	A5	Margam C	Mit	3	Service	A5	Mgm C	Mit	3	Service	A5	Mgm C	Mit	3	Service	A5	Mgm C	Mit	3	
Boiler Plant Totals	240	37	554	49	32	126	18	229	40	41	4	1	4	1	2						
TNP Annual Limit (T)	161	79	675	157		192	115	923	231		10	4	10	8							

A52A, A52B results have been completed from the modeling data boiler 6 from October 7 September

Signed on behalf of the Operator

Dated

26/01/21

Form LCPD Monthly 1

RELEASES INTO AIR

Operational summary for quarter ending

31-Dec-20

Operator: Tata Steel UK Ltd

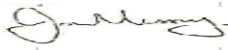
Location: Port Talbot Works

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)	1951	2118	2208	1501	2208	2180	2208
Mean load (%MCR)	33.2	32.8	38.2	55.7	69.7	56.0	62.8
Mean flue gas flow (Nm ³ /hr)	55138	98881	52515	152736	268507	140871	186552
Heavy Fuel Oil							
Average net CV (GJ/t)	41	41	41	41	41	41	
Max. sulphur content (g/Kg)	5	5	5	5	5	5	
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)	17.36	17.36	17.36	17.36	17.36	17.36	
Sulphur content (g/m ³)	3.39	3.39	3.39	3.39	3.39	3.39	
NOx factor	0.04	0.04	0.04	0.04	0.04	0.04	
Blast Furnace Gas							
Average net CV (GJ/km ³)	3.67	3.67	3.67	3.67	3.67	3.67	3.67
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)	37.18	37.18	37.18	37.18	37.18	37.18	37.18
NOx factor	0.04	0.04	0.04	0.04	0.04	0.04	0.04

Signed on behalf of the Operator



Dated

25/01/21

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		Planned/	Reason
	Start	Duration (mins)	Unplanned	
13-Nov-20	09:57	30m	Mechanical	Stop taken to refit r/rollers on 1027 con. 2x roller renewed on 1065 con during this time. Discharge end sprays cleaned.
13-Nov-20	11:18	1h 14m	Mechanical	1049 ddv m/bar dropped off, plant stopped to allow chute above dome to be clean out, some material compacted, not really damp.
14-Nov-20	01:26	32m	Mechanical	Pallet 63 off and 049 on
13-Nov-20	20:09	47m	Mechanical	changed return rollers on 1002, 1021, 1027
14-Nov-20	16:26	1h 9m	Operational	issues with hood cooling water, then issues with pilots.
14-Nov-20	17:36	20m	Operational	issues with Pilots, 8 out, KT helping from home
14-Nov-20	18:36	33m	Operational	continuation of issues around pilots
14-Nov-20	20:20	1h 13m	Operational	pilot issues
14-Nov-20	22:34	2h 18m	Operational	pilot issues
15-Nov-20	00:54	21m	Operational	pilot issues
15-Nov-20	01:45	17h 18m	Operational	unable to light hood - pilot issues
16-Nov-20	05:05	25m	Mechanical	Hood tripped, failing on step 6 quick shut off valve sv27 105, see below.
18-Nov-20	02:00	5h 0m	Planned Maintenance	Planned maint stop
18-Nov-20	07:00	12h 0m	Planned Maintenance	Planned maint
19-Nov-20	01:52	30m	Electrical	Elecs looking into atow
19-Nov-20	03:36	43m	Operational	Sinter through
19-Nov-20	05:08	2h 38m	Mechanical	Possible motor or Fluid coupling u/s
19-Nov-20	07:47	15h 46m	Electrical	issues with 1003, and combustion air fan
20-Nov-20	09:20	20m	Mechanical	Pallet change, 1 full side wall missing and half a side wall missing.
20-Nov-20	16:39	29m	Mechanical	Cooler jammed trays 28-29 by south drive, hard to carry ring
20-Nov-20	17:23	3h 58m	Mechanical	Cooler jammed
20-Nov-20	23:30	40m	Mechanical	Fitted new guide wheel on trav 4
21-Nov-20	13:15	20m	Mechanical	Stop taken to allow mechanical to check main gate lifting /lowering mechanism, as gate not closing after gate raised to remove large lump.
21-Nov-20	13:45	35m	Mechanical	Stop to attach pull lift to main gate, remove pins from both actuators due to opening closing mechanism issues see sap for full write up, any issues with lumps gate can be opened and closed on pull lift.
22-Nov-20	21:19	1h 12m	Mechanical	clear spillage from area
24-Nov-20	12:36	2h 24m	Mechanical	1023 Screen change
25-Nov-20	08:46	6h 59m	Mechanical	Gear box failed on roll feeder - replacement carried out
26-Nov-20	10:33	23m	Mechanical	Rollers changed causing stringers
27-Nov-20	22:17	1h 19m	Operational	Replenish ore bunkers
29-Nov-20	13:35	29m	Mechanical	Hole in west side of chute just above side wiper / return roller also in half in same area.
30-Nov-20	12:23	16m	Operational	1025 Con stopped screen had not tripped electrically possible tied into checking spill point on product bin.
30-Nov-20	16:22	27m	Mechanical	Conveyor tracked over approx. 3" lost on top ply, belt tracked and tensioned.
30-Nov-20	18:14	2h 31m	Mechanical	tracked over, stringers around tail drum, under speed u/s
01-Dec-20	01:48	48h 27m	Planned Maintenance	00:00
03-Dec-20	03:04	1h 4m	Operational	Strand stopped to sinter through after restart after planned maintenance
03-Dec-20	10:32	49m	Mechanical	1009 inspections
05-Dec-20	17:18	20m	Electrical	dropped out again, electrical investigating
06-Dec-20	05:30	19m	Mechanical	Barring pallet No.27 on strand

Signed on behalf of the Operator

Dated

20/01/21

Form Sinter Operational

Operational summary for quarter ending

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

Signed on behalf of the operator
Dated: 20-Jan-21

Johnny

RELEASES INTO AIR

Operational summary for quarter ending

31-Dec-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/Unplanned	Reason
02-Oct-20	18:17	25m	Mechanical	pallet change for hole - 61 off and 041 on.
02-Oct-20	18:17	1h 10m	Electrical	Delay to split field 2 on dedust.
03-Oct-20	00:21	25m	Mechanical	Delay to replace pallet for hole - no1 off, 038 on.
04-Oct-20	02:41	24m	Operational	1002 dropped out found return built up with material.
04-Oct-20	11:59	42m	Operational	High temps seen on 1027
05-Oct-20	05:49	27m	Operational	Lumps from mixer tripped 1004 conv
05-Oct-20	18:33	6h 0m	Planned Maintenance	PM repairs to No2 De dust field
06-Oct-20	09:45	4h 21m	Mechanical	Exciter failure
07-Oct-20	11:11	28m	Mechanical	sidewall off
09-Oct-20	05:08	1h 40m	Mechanical	opportunity stop taken to investigate and replenish oil on 1024 exciters.
09-Oct-20	11:05	18h 48m	Mechanical	Delay to investigate South drive g/box on mixer.
12-Oct-20	04:55	1h 37m	Operational	1049 chute blocked above ddv
13-Oct-20	01:20	24m	Mechanical	Pallet change, 19 off 42 on
14-Oct-20	11:22	1h 9m	Mechanical	Pallet change for damaged wheel
16-Oct-20	09:13	2h 32m	Mechanical	Delay to remove link from 1074 chain
16-Oct-20	15:52	28m	Operational	Bob cat snapped north trip cable on 1001 conv
18-Oct-20	09:17	36m	Electrical	Relay fault on plant start up
18-Oct-20	09:45	16h 22m	Planned Maintenance	planned maintenance to replace 1028 conveyer
20-Oct-20	04:12	1h 34m	Planned Maintenance	PLANNED MAINT STOP
20-Oct-20	19:00	1h 0m	Mechanical	Issues around tracking of 1026 several times
22-Oct-20	14:38	1h 27m	Mechanical	Delay to remove section of damaged roll feeder shell
24-Oct-20	12:40	11h 4m	Planned Maintenance	Planned maintenance stop
27-Oct-20	07:00	3h 24m	Mechanical	Stop to check noise coming from gearbox see further comments, on bringing plant back in hole in fire water main 5th floor bandage repair carried out before plant restarted
29-Oct-20	11:39	19m	Mechanical	Conveyor tracked out again report large slugs of material seen on belt 1020 trend being checked.
29-Oct-20	15:10	22m	Operational	Pallet change 132 off 046 on
30-Oct-20	02:16	2h 37m	Electrical	North bent beam activated found pallet wheel has sheared off.
30-Oct-20	05:42	1h 10m	Operational	Wheel off
30-Oct-20	08:54	18m	Mechanical	Tracking/cooler failed to come in
30-Oct-20	10:16	19m	Electrical	North bent beam activated, moved limit
30-Oct-20	14:40	22m	Mechanical	Tracking issue
30-Oct-20	16:10	1h 0m	Operational	De-blind 1025 screen
30-Oct-20	17:15	52m	Mechanical	Delay to remove section of damaged roll feeder shell
04-Nov-20	01:33	23m	Mechanical	delay to track 1026 conveyer
04-Nov-20	02:24	1h 52m	Mechanical	Change 1022 con north snub drum bearing, journal is scored
05-Nov-20	10:25	1h 2m	Mechanical	Reports of 1023 screen sounding extremely noisy
08-Nov-20	09:25	30m	Mechanical	Pallet change carried out to inspect hearth layer depth
09-Nov-20	10:05	4h 14m	Mechanical	Delay due to strand bogi flex operation, counter balance chain snapped
09-Nov-20	13:00	14h 20m	Mechanical	Support wheel unit sheared
09-Nov-20	22:00	43m	Mechanical	Cooler jammed.
11-Nov-20	16:30	2h 5m	Mechanical	delay to inspect and carry out repairs to cooler

Signed on behalf of the Operator

Dated

20/01/21

Form Sinter Operational

WASTE PRODUCTION

Operational summary for quarter ending 31-Dec-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)	Waste oil reductant (tonnes)
BOS	Oct	54960	825					
	Nov	30469	1760					
	Dec	20735	880					
Iron and steel installation	Oct			2.9	276			
	Nov			2.2	409			
	Dec			3.2	262			
BF4 tapholes	Oct					33816		
	Nov					38005		
	Dec					27095		
BF5 tapholes	Oct					32091		
	Nov					36909		
	Dec					40186		
BF5	Oct							
	Nov							
	Dec							
Coke ovens	Oct						267	
	Nov						148	
	Dec						185	

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

Signed on behalf of the Operator

Dated 25/01/21

Form Waste 1

RELEASES INTO AIR

Operational summary for quarter ending

31-Dec-20

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

Permit: BL7108

Release Points: A4A, A5A, & iron plating

Blast Furnace Bleeder (A4A,A5A) openings					
Bleeder(s)	Date	Time	Duration (s)	Reason	Preventative actions taken
5	09-Dec-20	06:10		BF5 Bleeder Opening Burden had slipped, operator had opened the	Investigation ongoing
Total BF4			0		
Total BF5			1		

RELEASES INTO AIR

Operational summary for the six months to

31-Dec-20

Operator: Tata Steel UK Ltd

Release Point: A1

Location: Port Talbot Works

Permit: BL7108

Release Point	Sinter Main (A1)							
	Chloride (mg/Nm3)	Fluoride (mg/Nm3)	Lead (mg/Nm3)	VOC's (mg/Nm3)	PAH's * (ug/Nm3)	Dioxins** (ng/Nm3)	Dioxins *** (ng/Nm3)	Mercury (mg/Nm3)
Permit limit	No Longer a requirement in the permit					0.4		50
Measured oxygen (%)					17.1	17.1	17.1	17.0
Measured conc. according to condition 10.1.3a (17%O2)					1.97	0.29	0.26	14.45
Cogeners<LoD at zero					(+/- 0.43)	(+/- 0.05)	(+/- 0.05)	(+/-7.83)
Cogeners<LoD at LoD						0.29	0.29	
Analytical method used						0.29	0.29	
Date of sampling								BS EN 13211
Sample start time								09-Dec-20
Sample end time								10:44
Limit of detection								12:54
Continuous particulate result during sampling (hourly mean)								0.090
Process status at time of sam								44
Mean sulphur content of sinter blend in use (%)								
Reverts content of sinter blend in use (%)								0.017
Mean chloride content of sinter blend in use (%)								9.80%
Throughput during sampling period (% of maximum)								0.008
								58

* PAH's as B[a]P

** Dioxins and furans as iTEQ

*** Dioxins and furans as WHO TEQ

Signed on behalf of the Operator

Dated

29/01/2021

Form Sinter DCM 2