

RELEASES INTO AIR

Operational Summary for the month Apr-2020

Operator: Tata Steel UK Ltd

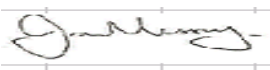
Permit: BL7108 / RP3730BV

Location: Port Talbot Works

Release Point: A1

Day	% max throughput	% data capture	% EP availability	% UJT availability	Sinter Blend			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-Apr-20	66	100%	100%	89%	0.013	#N/A	10.32%	48	55	47	41	4	73	48	37	8
02-Apr-20	61	100%	100%	100%	0.014	0.008	11.12%	48	59	49	39	5	66	48	31	9
03-Apr-20	65	100%	100%	100%	0.014	0.008	11.12%	59	74	60	38	9	108	59	34	18
04-Apr-20	67	100%	100%	100%	0.014	0.008	11.12%	51	73	50	37	11	119	51	35	18
05-Apr-20	63	100%	100%	100%	0.014	0.008	11.12%	64	122	65	36	26	250	64	30	47
06-Apr-20	71	100%	100%	100%	0.014	0.001	12.36%	56	82	55	44	12	106	56	39	17
07-Apr-20	30	100%	100%	100%	0.014	0.001	12.36%	26	91	29	0	33	185	26	0	45
08-Apr-20	54	100%	100%	99%	0.014	0.001	12.36%	22	48	21	0	17	60	22	0	22
09-Apr-20	28	100%	100%	100%	0.014	0.001	12.36%	21	46	19	0	16	83	21	0	23
10-Apr-20	53	100%	100%	100%	0.014	0.001	12.36%	49	78	49	34	11	88	49	1	20
11-Apr-20	56	100%	100%	100%	0.014	0.006	12.39%	26	38	26	8	8	48	26	0	13
12-Apr-20	49	100%	100%	100%	0.014	0.006	12.39%	28	53	28	0	18	72	28	0	22
13-Apr-20	47	100%	100%	100%	0.014	0.006	12.39%	24	50	26	1	13	57	24	0	15
14-Apr-20	67	100%	100%	100%	0.014	0.006	12.39%	35	42	33	26	4	60	35	24	8
15-Apr-20	17	100%	100%	99%	0.014	0.006	12.39%	15	43	16	0	16	47	15	0	19
16-Apr-20	46	100%	100%	100%	0.014	0.006	12.39%	65	143	64	25	36	283	65	0	68
17-Apr-20	74	100%	100%	100%	0.014	0.004	12.91%	37	54	35	25	8	71	37	23	13
18-Apr-20	72	100%	100%	100%	0.014	0.004	12.91%	44	61	43	29	7	81	44	26	16
19-Apr-20	60	100%	100%	100%	0.014	0.004	12.91%	52	70	53	22	12	103	52	7	24
20-Apr-20	42	100%	100%	99%	0.014	0.004	12.91%	34	95	35	0	28	167	34	0	37
21-Apr-20	64	100%	100%	100%	0.014	0.004	12.91%	43	51	43	34	6	71	43	4	15
22-Apr-20	67	100%	100%	100%	0.013	0.005	13.24%	42	48	42	36	4	64	42	30	9
23-Apr-20	63	100%	100%	100%	0.013	0.005	13.24%	44	69	45	30	11	117	44	14	22
24-Apr-20	56	100%	100%	100%	0.013	0.005	13.24%	42	59	41	22	10	128	42	0	28
25-Apr-20	71	100%	100%	100%	0.013	0.005	13.24%	57	78	55	33	13	102	57	28	22
26-Apr-20	68	100%	100%	100%	0.012	0.007	12.66%	52	75	54	32	12	113	52	0	23
27-Apr-20	71	100%	100%	97%	0.012	0.007	12.66%	54	79	53	36	12	100	54	32	20
28-Apr-20	65	100%	100%	97%	0.012	0.007	12.66%	44	62	45	31	10	118	44	1	24
29-Apr-20	23	100%	100%	100%	0.012	0.007	12.66%	55	200	45	0	59	289	55	0	79
30-Apr-20	64	100%	100%	100%	0.012	0.005	14.10%	28	175	39	19	35	45	28	0	9
Month ave	57	100%	100%	99%	0.01	0.01	0.1	42	-	42	-	-	-	42	-	-
Month max.	74	-	-	-	0.01	0.02	0.1	65	200	-	-	-	289	-	-	-
Limit	-	-	-	-	0.06	-	-	40	-	-	-	-	-	-	-	-

Signed on behalf of the Operator



Dated 06/08/2020

Form Sinter CEMS

RELEASES INTO AIR

Operational Summary for the month May-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-May-20	59	100%	100%	100%	0.012	0.005	14.10%	27	36	27	12	6	57	27	0	12
02-May-20	54	100%	100%	100%	0.012	0.005	14.10%	18	32	19	11	5	38	18	0	8
03-May-20	68	100%	100%	100%	0.012	0.005	14.10%	29	42	27	21	5	68	29	19	11
04-May-20	58	100%	100%	97%	0.012	0.005	14.10%	33	53	35	14	11	109	33	0	21
05-May-20	56	100%	100%	95%	0.013	0.006	12.13%	34	49	33	7	8	82	34	0	19
06-May-20	65	100%	100%	100%	0.013	0.006	12.13%	31	51	32	11	10	84	31	0	17
07-May-20	66	100%	100%	100%	0.013	0.006	12.13%	19	54	21	0	22	92	19	0	26
08-May-20	77	100%	100%	100%	0.013	0.006	12.13%	36	73	30	0	24	140	36	0	34
09-May-20	73	100%	100%	100%	0.013	0.006	12.76%	65	90	68	46	14	127	65	39	23
10-May-20	76	100%	100%	100%	0.013	0.006	12.76%	49	73	50	37	10	102	49	32	15
11-May-20	59	100%	100%	100%	0.013	0.006	12.76%	46	66	46	26	11	91	46	0	24
12-May-20	77	100%	100%	99%	0.013	0.006	13.16%	45	57	44	35	7	70	45	33	10
13-May-20	65	100%	100%	99%	0.013	0.006	13.16%	53	90	55	39	14	142	53	0	30
14-May-20	0	100%	100%	100%	0.013	0.006	13.16%	0	27	1	0	6	0	0	0	0
15-May-20	0	100%	100%	100%	0.013	0.006	13.16%	0	0	0	0	0	0	0	0	0
16-May-20	0	100%	100%	100%	0.013	0.006	13.16%	0	0	0	0	0	0	0	0	0
17-May-20	0	100%	100%	100%	0.013	0.006	13.16%	0	0	0	0	0	0	0	0	0
18-May-20	0	100%	100%	100%	0.013	0.006	13.16%	0	0	0	0	0	0	0	0	0
19-May-20	0	100%	100%	100%	0.013	0.006	13.16%	0	2	0	0	0	9	0	0	2
20-May-20	29	100%	100%	100%	0.013	0.006	13.16%	0	166	67	0	55	232	70	0	69
21-May-20	75	100%	100%	100%	0.013	0.006	13.16%	0	71	46	31	9	71	45	28	13
22-May-20	73	100%	100%	100%	0.013	0.006	13.16%	0	48	34	25	8	67	33	24	10
23-May-20	68	100%	100%	100%	0.012	0.007	14.79%	0	65	43	27	10	106	43	19	18
24-May-20	72	100%	100%	100%	0.012	0.007	14.79%	0	52	43	32	6	90	43	26	16
25-May-20	74	100%	100%	100%	0.012	0.007	14.79%	0	79	47	34	12	91	48	29	17
26-May-20	71	100%	100%	100%	0.012	0.008	16.31%	0	89	55	32	17	141	54	26	30
27-May-20	73	100%	100%	100%	0.012	0.008	16.31%	0	69	42	22	15	73	43	21	17
28-May-20	29	100%	100%	100%	0.012	0.008	16.31%	0	83	32	0	27	125	32	0	39
29-May-20	50	100%	100%	100%	0.012	0.008	16.31%	0	44	27	4	9	61	26	0	15
30-May-20	67	100%	100%	100%	0.012	0.008	16.31%	0	59	39	28	7	69	39	10	14
31-May-20	60	100%	100%	100%	0.012	0.006	15.07%	0	70	44	28	11	91	44	0	15
Month ave	51	100%	100%	100%	0.01	0.01	0.1	16	-	32	-	-	-	32	-	-
Month max.	77	-	-	-	0.01	0.01	0.2	65	57	-	-	-	232	-	-	-
Limit	-	-	-	-	0.06	-	-	40	-	-	-	-	-	-	-	-

Signed on behalf of the Operator

Dated 06/08/2020

Form Sinter CEMS

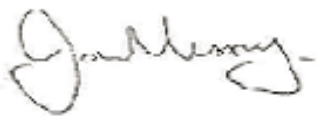
RELEASES INTO AIR

Operational Summary for the month Jun-2020

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-Jun-20	64	100%	100%	100%	0.012	0.006	15.07%	39	57	38	29	9	89	39	13	19
02-Jun-20	67	100%	100%	97%	0.012	0.006	15.07%	47	58	45	29	10	82	47	28	15
03-Jun-20	10	100%	100%	99%	0.012	0.006	15.07%	31	119	24	0	35	217	31	0	61
04-Jun-20	65	100%	100%	100%	0.012	0.006	15.07%	43	134	51	28	27	124	43	23	20
05-Jun-20	46	100%	100%	100%	0.011		15.94%	24	41	24	0	12	55	24	0	15
06-Jun-20	62	100%	100%	100%	0.011		15.94%	33	51	32	24	8	91	33	22	14
07-Jun-20	63	100%	100%	100%	0.011		15.94%	15	38	17	0	17	56	15	0	19
08-Jun-20	56	100%	100%	100%	0.011		15.94%	16	32	14	0	12	52	16	0	16
09-Jun-20	60	100%	100%	100%	0.011		15.94%	41	70	42	29	11	87	41	23	16
10-Jun-20	39	100%	100%	99%	0.011	0.01	16.38%	36	75	36	0	19	140	36	0	31
11-Jun-20	57	100%	100%	100%	0.011	0.01	16.38%	38	58	36	17	11	74	38	0	16
12-Jun-20	56	100%	100%	100%	0.011	0.01	16.38%	47	81	48	16	17	137	47	0	28
13-Jun-20	37	100%	100%	100%	0.011	0.01	16.38%	35	91	36	0	29	121	35	0	39
14-Jun-20	68	100%	100%	100%	0.011	0.01	16.38%	58	117	57	27	28	195	58	26	38
15-Jun-20	69	100%	100%	100%	0.011	0.006	17.73%	63	81	62	49	10	129	63	41	19
16-Jun-20	35	100%	100%	100%	0.011	0.006	17.73%	40	94	42	0	36	207	40	0	50
17-Jun-20	65	100%	100%	100%	0.011	0.006	17.73%	48	87	47	18	18	109	48	0	24
18-Jun-20	33	100%	100%	100%	0.011	0.006	17.73%	65	165	64	0	48	220	65	0	59
19-Jun-20	66	100%	100%	100%	0.011	0.006	17.73%	57	103	60	40	19	136	57	30	28
20-Jun-20	69	100%	100%	97%	0.011		16.87%	51	75	49	32	12	115	51	22	22
21-Jun-20	70	100%	100%	100%	0.011		16.87%	49	66	48	23	13	91	49	11	20
22-Jun-20	62	100%	100%	100%	0.011		16.87%	60	93	61	38	17	126	60	3	33
23-Jun-20	50	100%	100%	100%	0.011		16.87%	39	77	40	9	18	116	39	1	31
24-Jun-20	43	100%	100%	100%	0.011		16.82%	39	103	37	0	31	215	39	0	45
25-Jun-20	52	100%	100%	100%	0.011		16.82%	35	53	36	2	14	79	35	0	20
26-Jun-20	59	100%	100%	100%	0.011		16.82%	44	75	43	4	19	98	44	0	26
27-Jun-20	68	100%	100%	97%	0.011		16.82%	40	54	40	25	9	67	40	5	14
28-Jun-20	65	100%	100%	86%	0.011		16.88%	43	77	43	19	17	132	43	0	25
29-Jun-20	53	100%	100%	97%	0.011		16.88%	51	94	51	0	23	122	51	0	32
30-Jun-20	71	100%	100%	100%	0.011		16.88%	42	62	42	27	10	92	42	27	15
Month ave	56	100%	100%	99%	0.01	0.01	0.2	42	-	42	-	-	-	42	-	-
Month max.	71	-	-	-	0.01	0.01	0.2	65	165	-	-	-	220	-	-	-
Limit	-	-	-	-	0.06	-	-	40	-	-	-	-	-	-	-	-

* No data available.
03/04/2017 to the 10/04/2017 Sinter Plant on stop

Signed on behalf of the Operator 

Dated 06/08/2020 Form Sinter CEMS

WASTE PRODUCTION

Operational summary for quarter ending 30-Jun-20

Operator: Tata Steel UK Ltd

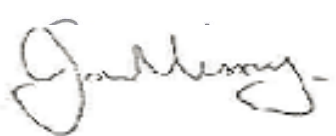
Location: Port Talbot Works

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	Apr	32614	1610					
	May	34070	180					
	Jun	15955	1835					
Iron and steel installation	Apr			3.2	307			
	May			0.8	194			
	Jun			1.6	217			
BF4 tapholes	Apr					30972		
	May					36295		
	Jun					34772		
BF5 tapholes	Apr					30804		
	May					35415		
	Jun					28195		
BF5	Apr							
	May							
	Jun							
Coke ovens	Apr							**
	May							**
	Jun							**

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

** Awaiting Oil used at the coke ovens-data will follow

Signed on behalf of the Operator 

Dated 06/08/20

Form Waste 1

RELEASES INTO AIR

Operational summary for quarter ending 30-Jun-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	Apr	15	1	0.7	0.2	0.0	0.0	0.3	1.1	100%	100%
	May		1	1.2	0.0	1.4	0.8	0.1	1.3	100%	100%
	Jun		1	1.3	0.0	1.4	1.2	0.0	1.3	100%	100%
A8B	Apr	15	1	0.1	0.2	1.2	0.0	0.2	0.5	100%	100%
	May		1	0.2	0.3	2.1	0.0	0.3	0.8	100%	100%
	Jun		1	0.2	0.1	1.4	0.0	0.2	0.5	100%	100%
A9	Apr	15	5	0	1	9	0	0	1	100%	100%
	May		7	0.0	2.1	10.7	0.2	1.7	0.8	100%	100%
	Jun		7	0.0	1.9	21.0	0.2	2.1	0.7	100%	100%
A2*	Apr	50	152	8	37	303	0	50	39	100%	100%
	May		145	0.0	46.7	298.9	0.0	51.2	34.7	100%	100%
	Jun		46	4.1	8.4	88.1	0.0	13.4	23.6	100%	100%
A10	Apr	15	13	1.0	2.2	8.3	2.0	1.7	2.5	100%	100%
	May		4	0.7	0.7	7.2	1.3	1.5	1.8	100%	100%
	Jun		4	0.2	0.8	18.2	0.5	3.3	1.6	100%	100%
A14	Apr	15	4	2.5	0.2	5.3	3.0	0.6	2.8	100%	100%
	May		5	1.6	0.9	10.3	2.7	1.7	3.3	100%	100%
	Jun		5	1.4	0.9	12.1	2.3	2.3	2.7	100%	100%
A15	Apr	15	5	2.0	0.8	7.2	2.5	1.3	3.1	100%	100%
	May		5	1.9	1.0	7.5	2.7	1.6	3.3	100%	100%
	Jun		6	0.8	1.5	19.2	1.3	4.1	2.9	100%	100%
A16	Apr	15	8	1.3	1.6	25.7	6.0	4.3	5.5	100%	100%
	May		10	0.3	2.8	26.7	0.4	5.9	2.4	100%	100%
	Jun		2	0.6	0.4	6.5	1.0	1.1	1.3	100%	100%

*A2 ELV discussed with NRW as derogation

* EC - electrochemical cell

Signed on behalf of the Operator

Dated 06/08/20

Form I&S CEMS Parts 1 & 2

RELEASES INTO AIR

Operational summary for quarter ending 30-Jun-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	A6	A7	A39 # (6 Monthly)	
Parameter	Chloride (as HCl)	Carbon monoxide			
Time and date of sampling	22-May-20 10:25	08-Apr-20 10:36	15-Apr-20 10:25	03-Jun-20 11:30	
Flowrate (Nm3/hr)	15,056	24164	22873	28,379	
Measured conc.(mg/Nm3)	0.06 (+/-0.13)	6250	6250	803 (+/-17.1)	
Emission limits (mg/Nm3)	5				
Sampling method used	Isokinetic	BS ISO 12039	BS ISO 12039	BS ISO 12039	
Analytical method used	BSEN1911	EC *	EC *	EC *	
Fuel usages over the sampling period					
Natural gas (%)		1%	0%		
BF gas (%)		58%	81%		
Coke oven gas (%)		4%	19%		
BOS Gas (%)		37%			

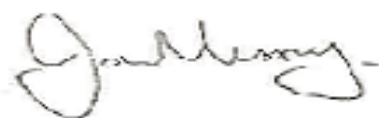
* EC - electrochemical cell

* No limit for A46 in new permit.

A39 has a 6 monthly monitoring requirement - no yet taken for HY2

Signed on behalf of the Operator

Dated 06/08/20



Form I&S DCM Misc

RELEASES INTO AIR

Operational summary for quarter ending 30-Jun-20

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

Permit: BL7108 / NP3938GZ

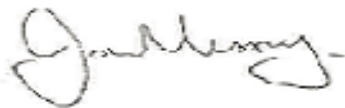
Release Points: A6, A7, A30, A31, A32, A34A, A34B & A39

OXIDES OF NITROGEN - NOx (DISCONTINUOUS MONITORING)						
Release Point	A6	A7		A34A	A34B	A39 #
Time and date of sampling	08-Apr-20 10:36	15-Apr-20 10:25		23-Apr-20 08:58	23-Apr-20 10:03	03-Jun-20 11:30
Flowrate (Nm3/hr)	24164	22873		5194	8150	29349
NOx measured conc.(mg/Nm3) **	33 (+/-1.4)	60 (+/-2.4)		638 (+/- 48.0)	641 (+/-48.1)	4 (+/-0.1)
Oxygen content (%)						
NOx limits (mg/Nm3)	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						
Natural gas (%)	1%	0%		71%	45%	100%
BF gas (%)	58%	81%				0%
Coke oven gas (%)	4%	19%		29%	55%	
BOS Gas (%)	37%					

* EC - electrochemical cell

A39 has a 6 monthly monitoring requirement.

Signed on behalf of the Operator



Dated 06/08/20

Form I&S DCM NOx

RELEASES INTO AIR

Operational summary for quarter ending 30-Jun-20

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	08-Apr-20 10:36	15-Apr-20 10:25	23-Apr-20 08:58	23-Apr-20 10:03	03-Jun-20 11:30
Flowrate (Nm3/hr)	24164	22873	5194	8150	32,756
SO2 measured conc.(mg/Nm3)	156.4 (+/- 5.4)	78 (+/- 3.6)	261 (+/-20.4)	465 (+/-35.2)	0 (+/- 0.0)
SO2 limits (mg/Nm3)	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 (%)	1%	0%	71%	45%	100%
BF gas (%)	58%	81%			0%
Coke oven gas (%)	4%	19%	29%	55%	
BOS Gas (%)	37%				

* EC - electrochemical cell

A39 has a 6 monthly monitoring requirement

Signed on behalf of the Operator

Dated 06/08/20

Form I&S DCM SO2

RELEASES TO AIR

Operational summary for quarter ending 30-Jun-20

Operator: Tata Steel UK Ltd

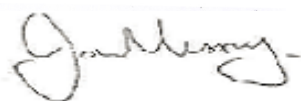
Location: Port Talbot Works

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	7277		
	Month 2	7663		
	Month 3	32057		
A13A BOS convertor 2 gas flare	Month 1	14554		
	Month 2	15326		
	Month 3	64114		
A33 Blast furnace gas flare stack no.1	Month 1	39122		
	Month 2	41505		
	Month 3	11660		
A33C Blast furnace gas flare stack no.2	Month 1	58781		
	Month 2	51015		
	Month 3	26734		
A33A Blast furnace gas main number 4 bleeder	Month 1		6	
	Month 2		6	
	Month 3		1	
A33B Blast furnace gas main number 5 bleeder	Month 1		69	
	Month 2		67	
	Month 3		9	
A59 Coke oven gas triple flare	Month 1	12392		
	Month 2	4885		
	Month 3	5794		
Blast furnaces 4 and 5	Month 1			1344166
	Month 2			1255956
	Month 3			1200142
Coke ovens	Month 1			449805
	Month 2			472382
	Month 3			457129
BOS Plant	Month 1			195411
	Month 2			179710
	Month 3			162613

Signed on behalf of the Operator

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Dated

06/08/20

Form Installation gas

RELEASES INTO AIR

Operational summary for quarter ending 30-Jun-20

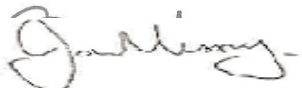
Operator: Tata Steel UK Ltd

Location: Port Talbot Works

Permit: BL7108 / NP3938GZ

Release Point: A62

PARTICULATE MATTER (mg/Nm3) - CONTINUOUS EMISSIONS MONITORING									
Release point	Month	Maximum daily mean	Monthly mean	Date & time of maximum value	Minimum daily mean	Standard deviation of daily means	% valid monitor reponse	Fuel weighted monthly limit	% Abnormal condtions
A62 Boiler 3	Apr	7.2	2.3	16-Apr-20	0.4	1.2	100.00%	9.5	16.5%
	May	5.3	2.7	06-May-20	1.1	0.9	100.00%	9.3	22.7%
	Jun	6.1	2.4	11-Jun-20	0.3	1.2	100.00%	8.9	23.5%
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 condtions
A62 Boiler 3	Apr	61.9	26.0	05-Apr-20	22.2	6.9	100.00%	182.9	16.5%
	May	59.4	26.5	05-May-20	22.2	7.7	100.00%	175.9	22.7%
	Jun	60.2	25.1	05-Jun-20	21.2	6.8	100.00%	164.9	23.5%
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 condtions
A62 Boiler 3	Apr	61.3	44.8	16-Apr-20	30.4	7.4	100.00%	189.6	16.5%
	May	90.0	48.6	28-May-20	11.4	15.5	100.00%	185.5	22.7%
	Jun	71.9	53.1	18-Jun-20	33.6	7.6	100.00%	179.0	23.5%

Signed on behalf of the Operator 

Dated 06/08/20

RELEASES INTO AIR

Operational summary for quarter ending 30-Jun-20

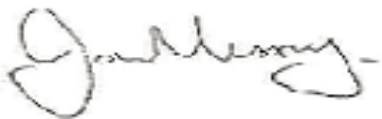
Operator: Tata Steel UK Ltd

Location: Port Talbot Works

Permit: BL7108

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

PARTICULATE MATTER (mg/Nm3) - CONTINUOUS EMISSIONS MONITORING							
Release point	Month	Monthly mean LIMIT=50	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	Apr	5.7	26.0	16/04/20 03:00	1.6	2.3	100%
	May	7.3	30.8	26/05/20 11:00	1.5	3.8	100%
	Jun	6.1	23.6	25/06/20 15:00	1.1	3.2	100%
A51 Boiler A5	Apr	1.9	9.2	16/04/20 02:00	0.5	1.1	100%
	May	2.5	6.4	29/05/20 03:00	0.5	1.4	100%
	Jun	2.1	5.7	01/06/20 20:00	0.3	1.7	100%
A52A Boiler 6	Apr	1.7	7.4	02/04/20 00:00	1.3	0.3	100%
	May	1.7	21.1	27/05/20 03:00	1.1	1.0	100%
	Jun	1.8	36.5	13/06/20 14:00	0.9	2.1	100%
A52B Boiler 7	Apr						0%
	May						0%
	Jun						0%
A53 Mitchell	Apr	2.1	3.2	07/04/20 23:00	1.7	0.2	100%
	May	2.1	12.7	27/05/20 03:00	0.6	0.6	100%
	Jun	2.6	92.3	13/06/20 16:00	0.3	6.0	100%

Signed on behalf of the Operator 

Dated 06/08/20

Form LCPD CEM Parts

RELEASES INTO AIR

Operational summary for quarter ending 30-Jun-20

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

Permit: BL7108

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

[illegible]

Signed on behalf of the Operator

Dated 06/08/20

Goodbye -

Form LCPD CEMS LOG

RELEASES INTO AIR

Operational summary for quarter ending 30-Jun-20

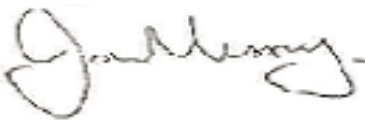
Operator: Tata Steel UK Ltd

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	Apr	81.7	159.4	02/04/2020 5:00	22.8	22.2	100%
	May	103.5	490.1	13/05/2020 7:00	2.7	32.9	100%
	Jun	109.6	429.5	24/06/2020 15:00	0.7	30.2	100%
A52B Boiler 7							
A50A & A50B Service Boilers	Apr	97.2	123.2	12/04/2020 5:00	86.2	5.3	100%
	May	101.5	133.8	28/05/2020 14:00	86.8	8.7	100%
	Jun	105.8	130.5	02/06/2020 0:00	93.4	7.1	47%
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	Apr	323.7	660.1	10/04/2020 2:00	0.3	136.6	100%
	May	417.8	844.1	22/05/2020 17:00	5.0	127.8	100%
	Jun	309.5	713.3	05/05/2020 20:00	9.0	152.6	100%
A52B Boiler 7	Apr						
	May						
	Jun						
A50A & A50B Service Boilers	Apr	241.5	647.8	10/04/2020 9:00	109.6	111.2	100%
	May	316.1	814.7	27/05/2020 18:00	116.8	175.9	100%
	Jun	430.0	982.9	10/06/2020 2:00	135.7	202.0	47%

Signed on behalf of the Operator 

Dated 06/08/20

RELEASES INTO AIR

Operational summary for quarter ending 30-Jun-20

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

Permit: BL7108

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

OXIDES OF NITROGEN - NO _x (DISCONTINUOUS MONITORING)						
Release Point	A50A&B Service 4&5	A51 A5	A52A No.6	A52B No.7	A53 Mitchell	A62 No.3
Time and date of sampling	19-Jun-20 11:07	02-Apr-20 10:42			12-Jun-20 09:59	
Flowrate (Nm3/hr)	5214	6776			32023	
NO _x measured** conc. (mg/Nm3)	228 (+/-16.0)	91 (+/-3.8)			78 (+/-3.5)	
NO _x 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	0					
Fuel usages over the sampling period						
Natural gas (%)	0%	0%			0%	
BF gas (%)	1%	89%			96%	
Coke oven gas (%)	99%	11%			4%	
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 06/08/20

Form LCPD DCM NO_x

RELEASES INTO AIR

Operational summary for quarter ending

30-Jun-20

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

Permit: BL7108 / NP3938GZ

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

SULPHUR DIOXIDE - SO ₂ (DISCONTINUOUS MONITORING)						
Release Point	A50A&B Service 4&5	A51 A5	A52A No.6	A52B No.7	A53 Mitchell	A62 No.3
Time and date of sampling	19-Jun-20 11:07	02-Apr-20 10:42			12-Jun-20 09:59	
Flowrate (Nm ³ /hr)	5214	6776			32023	
SO ₂ measured conc. (mg/Nm ³)	326 (+/-23.1)	76 (+/- 3.9)			42 (+/- 3.3)	
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	0					
Fuel usages over the sampling period						
Natural gas (%)	0%	0%			0%	
BF gas (%)	1%	89%			96%	
Coke oven gas (%)	99%	11%			4%	
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 06/08/20

Form LCPD DCM SO₂

RELEASES INTO AIR

Operational summary for quarter ending

30-Jun-20

Operator: Tata Steel UK Ltd

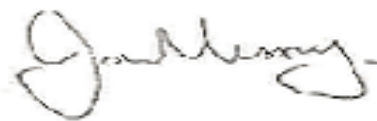
Location: Port Talbot Works

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	A	0	15314	46298	3198		64810
	M	0	21028	35803	5105		61936
	J	0	42511	26367	6168		75046
A50B Service Boiler 5	A	0	17928	51426	3421		72775
	M	0	20515	42346	5423		68284
	J	0	41087	28770	6706		76563
A51 Boiler A5	A	0	5673	51637	1067	12	58389
	M	0	5728	49066	1067	45	55906
	J	0	1466	10103	540	0	12109
A52A Boiler 6	A	0	70304	231802	14836	28957	345899
	M	165	96852	216657	14787	27476	355937
	J	1239	77571	226477	17767	15147	338201
A52B Boiler 7	A	0	53049	233274	13144	29144	328611
	M	0	74576	220769	11643	28075	335063
	J	236	60212	224803	14371	15097	314719
A53 Mitchell	A	0	5083	98461	1458		105002
	M	0	5828	104796	2319		112943
	J	658	6388	108685	1727		117458
A62 Boiler 3	A			135478	12572	33	148083
	M			80019	15396	83	95498
	J			91104	19142	0	110246
Total	A	0	167351	848376	49696	58146	1123569
	M	165	224527	749456	55740	55679	1085567
	J	2133	229235	716309	66421	30244	1044342

Signed on behalf of the Operator



Dated 06/08/20

Form LCPD Fuels

RELEASES INTO AIR

Operational summary for quarter ending 30-Jun-20

Operator: Tata Steel UK Ltd
Location: Port Talbot Works
Permit: BL7108 / AP3330BE
Release Points: A50A, A50B, A51, A52A, A52B, A53 & A62

Month	Sulphur Dioxide (tonnes)							Oxides of Nitrogen (tonnes)							Particulates (tonnes)						
	A50A	A50B	A51	A52A	A52B	A53	A62	A50A	A50B	A51	A52A	A52B	A53	A62	A50A	A50B	A51	A52A	A52B	A53	A62
January	7.0	7.0	3.4	34.0	34.0	4.9	2.6	3.5	3.5	1.7	12.9	12.9	4.0	3.6	0.12	0.12	0.03	0.2	0.2	0.1	0.20
February	8.6	8.6	3.0	25.9	25.9	2.3	2.4	5.2	5.2	1.6	13.4	13.4	2.9	3.5	0.18	0.18	0.05	0.2	0.2	0.1	0.22
March	11.1	11.1	4.1	33.6	33.6	4.7	2.5	6.5	6.5	1.9	12.2	12.2	3.8	3.3	0.17	0.17	0.07	0.3	0.3	0.2	0.21
April	7.6	7.6	2.91	47.6	21.6	3.2	2.5	4.2	4.2	1.6	12.0	14.7	2.7	3.2	0.1	0.1	0.05	0.3	0.3	0.1	0.16
May	12.9	12.9	2.82	61.3	22.8	3.6	1.8	6.7	6.7	1.5	15.1	14.6	2.9	2.0	0.2	0.2	0.06	0.3	0.3	0.1	0.13
June	9.7	9.7	0.78	44.2	22.2	4.4	2.0	5.5	5.5	0.3	15.6	14.2	3.1	2.9	0.1	0.1	0.00	0.3	0.3	0.1	0.13
July																					
August																					
September																					
October																					
November																					
December																					
Totals	57	57	17	247	160	23	14	31	31	9	81	82	19	18	0.9	0.9	0.2	1.5	1.7	0.7	1.0
	575							273							7						
	Service		A5	Margam C		Mit	3	Service		A5	Mgm C		Mit	3	Service		A5	Mgm C		Mit	3
Boiler Plant Totals	114		17	407		23	14	63		9	163		19	18	2		0.2	3		1	1
NERP Annual Limit (T)	686		251	2219		575		252		96	929		212		20		4	56		10	

Signed on behalf of the Operator Note: A52B (Boiler 7) figures for Q2 derived from predictive emissions model output

Dated 07/08/20Form LCPD Monthly 1

RELEASES INTO AIR

Operational summary for quarter ending 30-Jun-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)	2176	2175	1627	2161	2176	2182	1893
Mean load (%MCR)	45.19%	48.76%	42.32%	88.53%	82.71%	52.71%	51.92%
Mean flue gas flow (Nm3/hr)	71373	94890	38906	225741	253753	95334	128177
Heavy Fuel Oil							
Average net CV (GJ/t)	41	41	41	41	41	41	
Max. sulphur content (g/Kg)	4.6	4.6	4.6	4.6	4.6	4.6	
Max. asphaltene content (g/Kg)	46	46	46	46	46	46	
Ave.%wt Sulphur	0.46	0.46	0.46	0.46	0.46	0.46	
NOx factor	0.1	0.1	0.1	0.1	0.1	0.1	
Coke Oven Gas							
Average net CV (GJ/km3)	17.18	17.18	17.18	17.18	17.18	17.18	
Sulphur content (g/m3)	3.52	3.52	3.52	3.52	3.52	3.52	
NOx factor	0.04	0.04	0.04	0.04	0.04	0.04	
Blast Furnace Gas							
Average net CV (GJ/km3)	3.50	3.50	3.50	3.50	3.50	3.50	3.50
Sulphur content (g/Nm3)	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/km3)	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

Dated 06/08/20

Form LCPD Operating 1

RELEASES INTO AIR

Operational summary for quarter ending

30-Jun-20

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

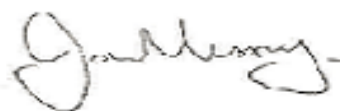
Permit: BL7108 / NP3938GZ

Release Point: A1

Substance	Particulates	Sulphur Dioxide	Oxides of Nitrogen	Carbon Monoxide
Permit limit (mg/Nm3)	40	500	500	
Measured conc. according to condition 10.1.3b	98 (+/- 10.7)	437 (+/-45.6)	176 (+/- 18.4)	6250 (+/- 667.5)
Measured oxygen content (%)	17.2	17.1	17.1	17.1
Measured conc. according to condition 10.1.3a (17%O2)	103	449	180	6414
Sampling method used	BS EN 13284	BS 6069	ISO 10849	BS ISO 12039
Analytical method used	Gravimetric	*EC	*EC	*EC
Date of sampling	03-Apr-20	03-Apr-20	03-Apr-20	03-Apr-20
Sample start time	10:30	10:30	10:30	10:30
Sample end time	12:40	12:40	12:40	12:40
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	59.3			
Process status at the time of sampling				
Mean sulphur content of sinter blend in use (%)	0.014	0.014	0.014	0.014
Reverts content of sinter blend in use (%)	11.12%	11.12%	11.12%	11.12%
Mean chloride content of sinter blend in use (%)	0.008	0.008	0.008	0.008
Throughput during sampling	60.0	60.0	60.0	60.0

* EC - electrochemical cell

Signed on behalf of the Operator



Dated 06/08/20

Form Sinter DCM 1

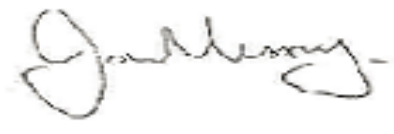
RELEASES INTO AIR

Operational summary for quarter ending 30-Jun-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	Apr	15	1.2	0.6	2.2	8.3	0.7	2.7	0.8	100%	100%
	May	Daily mean	1.1	0.5	0.7	7.2	0.7	0.4	0.7	100%	100%
	Jun		1.4	0.4	0.8	18.2	0.6	0.4	0.7	100%	100%
A63	Apr	25									
	May	Hourly mean									
	Jun										

Signed on behalf of the Operator
Dated 06/08/20



RELEASES INTO AIR

Operational summary for quarter ending

30-Jun-20

Operator: Port Talbot Works

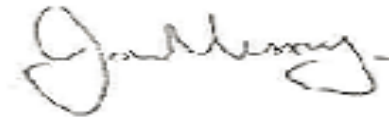
Location: Port Talbot Works

Permit: BL7108 / RP3730BV

	NOx (tonnes)	Lead (tonnes)	PM10 (tonnes)	CO2 (k tonnes)
Morfa	206			
Iron & Steel	652	1.1	322	1327
Total	858	1.1	322	1327

Signed on behalf of the Operator

Dated 06/08/20



Form KPI

RELEASES INTO AIR

Operational Summary for quarter ending 30-Jun-20

Operator: Tata Steel Strip Products UK

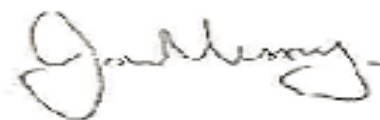
Location: Port Talbot Works

Permit: BL7108

Release Points:

PARTICULATE MATTER (DISCONTINUOUS MONITORING)		
Release Point	A6	A7
Time and date of sampling	08-Apr-20 10:27	15-Apr-20 10:26
Flowrate (Nm3/hr)	98,156	240,963
Particulate measured conc. (mg/Nm3)	3.7 (+/-1.9)	3.8 (+/-1.8)
Particulate limit (mg/Nm3)	10	10
Sampling method used	BS EN 13284	BS EN 13284
Analytical method used	Gravimetric	Gravimetric
Fuel Usage		
Natural gas (%)	1%	0%
BF gas (%)	58%	81%
Coke oven gas (%)	4%	19%
BOS (%)	37%	

Signed on behalf of the Operator



Dated

06/08/2020

Form Blast Furnace DCM Part

RELEASES INTO AIR

Operational summary for the six months

Operator: Tata Steel Strip Products UK

Location: Port Talbot Works

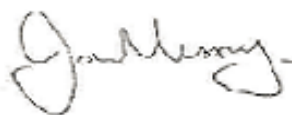
Permit: BL7108 / RP3730BV

Release Points: A39

PARTICULATE MATTER (DISCONTINUOUS MONITORING)		
Release Point	A39 HY1	
Time and date of sampling	23-Jun-20 10:21	
Flowrate (Nm3/hr)	31554	
Particulate measured conc. (mg/Nm3)	3	
Particulate limit (mg/Nm3)	25	
Sampling method used	BS EN 13284	
Analytical method used	Gravimetric	

Form GCI DCM Part

Signed on behalf of the Operator



Dated 06/08/2020