

RELEASES INTO AIR

Operational Summary for the month Mar-2017

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-17	50	100%	100%	40%	0.043	0.014	9.09%	8	9	8	6	1	11	8	5	2
02-Mar-17	50	100%	100%	67%	0.043	0.014	9.09%	11	17	11	7	3	23	11	1	5
03-Mar-17	53	100%	100%	100%	0.043	0.014	9.09%	9	14	9	5	3	17	9	4	3
04-Mar-17	54	100%	100%	100%	0.040	0.014	8.95%	21	55	20	9	14	81	21	6	20
05-Mar-17	56	100%	100%	100%	0.040	0.014	8.95%	14	25	15	10	5	26	14	8	6
06-Mar-17	55	100%	100%	100%	0.040	0.014	8.95%	20	27	20	14	4	48	20	12	9
07-Mar-17	59	100%	100%	100%	0.040	0.014	8.95%	8	25	10	0	10	31	8	0	11
08-Mar-17	58	100%	100%	100%	0.040	0.014	8.95%	7	15	7	0	6	26	7	0	7
09-Mar-17	23	100%	100%	99%	0.040	0.014	8.95%	55	172	48	0	59	253	55	0	81
10-Mar-17	52	100%	100%	100%	0.037	0.012	5.54%	67	109	69	41	16	170	67	0	33
11-Mar-17	55	100%	100%	100%	0.037	0.012	5.54%	102	162	106	42	28	254	102	20	60
12-Mar-17	57	100%	100%	100%	0.037	0.012	5.54%	39	58	39	22	11	81	39	16	20
13-Mar-17	39	100%	100%	100%	0.037	0.012	5.54%	33	71	32	4	22	121	33	0	32
14-Mar-17	55	100%	100%	100%	0.037	0.012	5.54%	53	118	54	23	31	278	53	1	55
15-Mar-17	77	100%	100%	97%	0.037	0.012	5.54%	33	99	32	10	28	187	33	9	39
16-Mar-17	89	100%	100%	100%	0.037	0.014	6.25%	32	43	33	21	7	57	32	16	12
17-Mar-17	54	100%	100%	100%	0.037	0.014	6.25%	48	87	49	7	28	157	48	1	42
18-Mar-17	53	100%	100%	63%	0.037	0.014	6.25%	8	16	8	5	4	20	8	4	4
19-Mar-17	50	100%	100%	67%	0.037	0.014	6.25%	8	19	7	5	4	25	8	4	5
20-Mar-17	50	100%	100%	62%	0.037	0.014	6.25%	7	15	8	5	2	16	7	1	3
21-Mar-17	59	100%	100%	85%	0.037	0.014	6.25%	9	13	9	7	2	17	9	7	2
22-Mar-17	55	100%	100%	63%	0.043	0.019	8.93%	9	15	9	7	2	17	9	6	3
23-Mar-17	33	100%	100%	96%	0.043	0.019	8.93%	31	90	30	0	30	133	31	0	42
24-Mar-17	69	100%	100%	100%	0.043	0.019	8.93%	37	65	37	25	11	156	37	15	27
25-Mar-17	62	100%	100%	100%	0.043	0.019	8.93%	43	103	44	18	24	165	43	14	32
26-Mar-17	50	100%	100%	100%	0.043	0.019	8.93%	49	103	48	23	23	217	49	0	47
27-Mar-17	52	100%	100%	100%	0.043	0.019	8.93%	36	42	36	32	3	53	36	29	6
28-Mar-17	48	100%	100%	100%	0.043	0.019	8.93%	68	98	66	36	21	186	68	6	39
29-Mar-17	55	100%	100%	100%	0.053	0.023	15.38%	88	124	89	61	20	180	88	48	34
30-Mar-17	51	100%	100%	100%	0.053	0.023	15.38%	105	127	100	61	19	203	105	0	45
31-Mar-17	55	100%	100%	100%	0.053	0.023	15.38%	106	147	105	82	19	203	103	76	24
Month ave	54	100%	100%	92%	0.04	0.02	0.1	38	-	37	-	-	-	38	-	-
Month max.	89	-	-	-	0.05	0.02	0.2	106	172	-	-	-	278	-	-	-
Limit	-	-	-	-	0.06	-	-	40	-	-	-	-	-	-	-	-

* No data available.

04-11/10 Sinter Plant on stop

Signed on behalf of the Operator



Dated 19/04/2017

Form Sinter CEMS

RELEASES TO AIR

Operational summary for quarter ending 31-Mar-17

Operator: Tata Steel UK Ltd

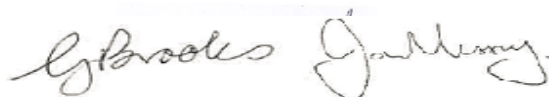
Location: Port Talbot Works

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	16684		
	Month 2	14249		
	Month 3	18270		
A13A BOS convertor 2 gas flare	Month 1	33367		
	Month 2	28497		
	Month 3	36540		
A33 Blast furnace gas flare stack no.1	Month 1	31220		
	Month 2	23653		
	Month 3	17910		
A33C Blast furnace gas flare stack no.2	Month 1	57951		
	Month 2	70686		
	Month 3	63930		
A33A Blast furnace gas main number 4 bleeder	Month 1		653	
	Month 2		66	
	Month 3		48	
A33B Blast furnace gas main number 5 bleeder	Month 1		2152	
	Month 2		467	
	Month 3		568	
A59 Coke oven gas triple flare	Month 1	109732		
	Month 2	55864		
	Month 3	39883		
Blast furnaces 4 and 5	Month 1			1430867
	Month 2			1292747
	Month 3			1749768
Coke ovens	Month 1			491508
	Month 2			508530
	Month 3			650843
BOS Plant	Month 1			180353
	Month 2			173784
	Month 3			226482

Signed on behalf of the Operator



Dated 14/04/17

Form Installation gas

WASTE PRODUCTION

Operational summary for quarter ending 31-Mar-17

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	25755	1057					
	Feb	19334	1540					
	Mar	30246	1080					
Iron and steel installation	Jan			1.1	492			
	Feb			1.5	3305			
	Mar			5.0	1238			
BF4 tapholes	Jan					35866		
	Feb					22810		
	Mar					31873		
BF5 tapholes	Jan					33493		
	Feb					30366		
	Mar					31375		
BF5	Jan							0.00
	Feb							0.00
	Mar							0.00
Coke ovens	Jan						122	**
	Feb						116	**
	Mar						182	**

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

** WID compliant Oil.

Signed on behalf of the Operator



Dated 14/04/17

Form Waste 1

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-17

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)	2000	1104	2073	2160	2160	1828	2160
Mean load (%MCR)	57.8	42.5	49.4	91.8	86.2	67.6	75.9
Mean flue gas flow (Nm ³ /hr)	85406	42115	56635	215329	234431	154888	211457
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)	9.8	9.8	9.8	9.8	9.8	9.8	
Max. asphaltene content (g/Kg)	46	46	46	46	46	46	
Ave.%wt Sulphur	0.95	0.95	0.95	0.95	0.95	0.95	
NOx factor	0.1	0.1	0.1	0.1	0.1	0.1	
Coke Oven Gas							
Average net CV (GJ/km ³)	17.20	17.2	17.2	17.2	17.2	17.2	
Sulphur content (g/m ³)	4.21	4.2	4.2	4.2	4.2	4.2	
NOx factor	0.04	0.04	0.04	0.04	0.04	0.04	
Blast Furnace Gas							
Average net CV (GJ/km ³)	3.53	3.53	3.53	3.53	3.53	3.53	3.53
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)	36.7	36.7	36.7	36.7	36.7	36.7	36.7
NOx factor	0.04	0.04	0.04	0.04	0.04	0.04	0.04

Signed on behalf of the Operator



Dated 21/04/17

Form LCPD Operating 1

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-17

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		13-Feb-17 10:16			17-Feb-17 10:43	
Flowrate (Nm ³ /hr)		72760			227062	
NO _x measured** conc. (mg/Nm ³)		22 (+/-1.3)			15 (+/-1.6)	
NO _x limit (mg/NM ³)		300 BFG/COG			300 BFG/COG	
Sampling method used		ISO 10849			ISO 10849	
Analytical method used		EC*			EC*	
Continuous hourly monitoring result over the period						
Fuel usages over the sampling period						
Natural gas (%)		7%			0%	
BF gas (%)		93%			95%	
Coke oven gas (%)		0%			5%	
Heavy fuel oil (%)		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 20/04/17

Form LCPD DCM NO_x

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-17

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		13-Feb-17 10:16			17-Feb-17 10:43	
Flowrate (Nm ³ /hr)		72760			227062	
SO ₂ measured conc. (mg/Nm ³)		47 (+/- 1.9)			55 (+/- 2.9)	
SO ₂ limit (mg/NM ³)		800 BFG/COG			800 BFG/COG	
Sampling method used		BS 6069			BS 6069	
Analytical method used		EC*			EC*	
Continuous hourly monitoring result over the period						
Fuel usages over the sampling period						
Natural gas (%)		7%			0%	
BF gas (%)		93%			95%	
Coke oven gas (%)		0%			5%	
Heavy fuel oil (%)		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 20/04/17

Form LCPD DCM SO₂

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-17

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	62912	21176	6505		90594
	Feb	0	54899	45157	3250		103307
	Mar	0	53571	39287	1933		94791
A50B Service Boiler 5	Jan	0	20414	16895	0		37309
	Feb	0	0	0	0		0
	Mar	0	34438	47704	6496		88639
A51 Boiler A5	Jan	0	43	53615	5059	409	59126
	Feb	0	0	42425	4559	88	47072
	Mar	0	0	64697	6612	0	71309
A52A Boiler 6	Jan	1113	75194	222072	21546	19441	339366
	Feb	3556	84220	200725	28701	18653	335855
	Mar	2649	101982	271439	24412	25877	426359
A52B Boiler 7	Jan	595	64171	216933	17483	18931	318112
	Feb	2624	75608	192805	22468	17901	311406
	Mar	2042	93787	265709	18713	25279	405530
A53 Mitchell	Jan	188	8858	121044	3301		133391
	Feb	4119	7776	108373	5219		125488
	Mar	14	5086	87905	2221		95226
A62 Boiler 3	Jan			173159	11447	1555	186161
	Feb			139493	18425	268	158186
	Mar			224109	14134	0	238243
Total	Jan	1896	231591	824894	65342	40336	1164058
	Feb	10300	222503	728977	82623	36911	1081314
	Mar	4705	288864	1000850	74522	51156	1420097

Signed on behalf of the Operator



Dated 18/04/17

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-17

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	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	Jan	3.3	114.2	15/01/17 15:00	0.8	5.7	100%
	Feb	4.9	188.6	15/02/17 12:00	1.3	9.7	100%
	Mar	8.4	234.4	05/03/17 17:00	0.0	13.5	100%
A51 Boiler A5	Jan	1.0	6.0	25/01/17 21:00	0.5	0.4	100%
	Feb	1.2	9.2	17/02/17 10:00	0.0	0.7	100%
	Mar	1.9	4.1	30/03/17 15:00	1.4	0.4	100%
A52A Boiler 6	Jan	2.2	18.8	13/01/17 05:00	1.6	1.1	100%
	Feb	2.4	18.6	18/02/17 23:00	1.5	1.9	100%
	Mar	1.9	16.3	23/03/17 13:00	1.2	1.7	100%
A52B Boiler 7	Jan	1.1	35.7	18/01/17 16:00	0.6	1.7	100%
	Feb	1.7	23.2	18/02/17 22:00	0.6	2.5	100%
	Mar	0.9	5.7	22/03/17 20:00	0.3	0.4	100%
A53 Mitchell	Jan	2.9	20.9	12/01/17 12:00	1.7	1.2	100%
	Feb	5.1	98.4	14/02/17 07:00	1.7	8.4	100%
	Mar	1.6	27.1	18/03/17 10:00	0.0	1.7	100%

Signed on behalf of the Operator



Dated 21/04/17

Form LCPD CEM Parts

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-17

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	94.0	833.5	18/01/2017 17:00	29.6	57.9	100%
	Feb	111.9	562.3	18/02/2017 23:00	16.8	89.4	100%
	Mar	100.5	765.8	23/03/2017 14:00	19.8	87.1	100%
A52B Boiler 7	Jan	59.2	363.3	18/01/2017 16:00	22.4	36.3	100%
	Feb	68.3	281.5	18/02/2017 23:00	22.8	49.5	100%
	Mar	55.4	141.6	24/03/2017 12:00	22.4	23.5	100%
A50A & A50B Service Boilers	Jan	215.0	423.5	17/01/2017 8:00	17.1	81.5	100%
	Feb	175.2	575.5	23/02/2017 11:00	12.6	96.9	100%
	Mar	183.0	533.0	03/03/2017 18:00	0.0	94.2	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	Jan	213.6	828.4	18/01/2017 17:00	67.0	75.9	100%
	Feb	241.6	687.3	18/02/2017 23:00	40.1	93.3	100%
	Mar	198.3	772.6	23/03/2017 14:00	52.2	91.7	100%
A52B Boiler 7	Jan	183.7	841.7	18/01/2017 17:00	53.6	92.5	100%
	Feb	217.0	788.8	18/02/2017 23:00	64.0	108.9	100%
	Mar	162.1	394.1	17/03/2017 15:00	55.1	61.7	100%
A50A & A50B Service Boilers	Jan	534.8	1458.1	18/01/2017 13:00	4.7	274.9	100%
	Feb	361.9	1383.2	02/01/2017 19:00	2.0	276.3	100%
	Mar	299.8	1279.0	10/03/2017 17:00	2.9	218.7	100%

Signed on behalf of the Operator



Dated 21/04/17

Form LCPD CEMS SO2 & NOx

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-17

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	6.6	2.4	22-Jan-17	1.2	1.0	100.00%	9.5	9.30%
	Feb	5.5	3.0	10-Feb-17	1.8	0.9	100.00%	8.7	27.70%
	Mar	5.1	2.3	24-Mar-17	1.1	0.8	100.00%	9.6	6.30%
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	115.6	47.4	12-Jan-17	28.6	15.9	100.00%	183.2	9.30%
	Feb	62.2	42.2	17-Feb-17	31.9	8.5	100.00%	155.7	27.70%
	Mar	210.2	70.3	28-Mar-17	34.5	51.2	100.00%	186.4	6.30%
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	14.1	7.9	19-Jan-17	2.6	3.2	100.00%	189.8	9.30%
	Feb	7.3	2.2	03-Feb-17	1.2	1.4	100.00%	173.1	27.70%
	Mar	88.7	19.0	23-Mar-17	1.2	26.6	100.00%	191.8	6.30%

Boiler 3 off from 21 January 2016.

Signed on behalf of the Operator



Dated 21/04/17

Form LCPD CEM A62

RELEASES INTO AIR

Operational summary for quarter ending 31-Mar-17

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 21/04/17

Form LCPD CEMS LOG

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-17

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	31 (+/- 3.2)	386 (+/- 35.6)	213 (+/- 19.8)	6250 (+/- 578.7)
Measured oxygen content (%)	16.4	16.8	16.8	16.8
Measured conc. according to condition 10.1.3a (17%O2)	27	367	202	5931
Sampling method used	BS EN 13284	BS 6069	ISO 10849	BS ISO 12039
Analytical method used	Gravimetric	*EC	*EC	*EC
Date of sampling	11-Jan-17	11-Jan-17	11-Jan-17	11-Jan-17
Sample start time	10:07:00	10:07	10:07	10:07
Sample end time	11:07	11:07	11:07	11:07
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	18.9			
Process status at the time of sampling				
Mean sulphur content of sinter blend in use (%)	0.045	0.045	0.045	0.045
Reverts content of sinter blend in use (%)	13.0	13.0	13.0	13.0
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

20/04/17

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-17

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	13.0	13.0	0.7	39.1	33.9	5.9	1.8	5.2	5.2	1.6	10.0	9.2	3.5	2.3	0.0	0.0	0.03	0.4	0.2	0.1	0.12
February	5.4	5.4	0.6	39.8	35.6	6.8	0.8	2.8	2.8	1.2	10.4	9.5	3.6	1.8	0.0	0.0	0.03	0.4	0.2	0.2	0.11
March	6.2	6.2	0.8	45.6	41.9	3.1	3.6	4.0	4.0	1.9	12.8	12.0	2.5	2.5	0.1	0.1	0.05	0.3	0.2	0.1	0.11
April																					
May																					
June																					
July																					
August																					
September																					
October																					
November																					
December																					
Totals	25	25	2	125	111	16	6	12	12	5	33	31	10	7	0.1	0.1	0.1	1.0	0.6	0.4	0.3
	309							109							3						
	Service		A5	Margam C		Mit	3	Service		A5	Mgm C		Mit	3	Service		A5	Mgm C		Mit	3
Boiler Plant Totals	49		2	236		16	6	24		5	64		10	7	0		0	2		0	0
NERP Annual Limit (T)	686		251	2219		575		252		96	929		212		20		4	56		10	

Signed on behalf of the Operator



Dated 26/04/17

Form LCPD Monthly 1

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-17

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	07-Mar-17 10:30	28-Feb-17 10:05				13-Mar-17 10:11	13-Mar-17 11:29	
Flowrate (Nm3/hr)	266424	143754				184849	210646	
NOx measured conc.(mg/Nm3) **	49 (+/-1.9)	29 (+/-1.3)				442 (+/- 32.1)	478 (+/-21.4)	
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 (%)	5%	0%				100%	44%	
BF gas (%)	58%	91%						
Coke oven gas (%)	14%	9%				0%	56%	
BOS Gas (%)	23%							

* 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 18/04/17

Form I&S DCM NOx

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-17

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	07-Mar-17 10:30	28-Feb-17 10:05	13-Mar-17 10:11	13-Mar-17 11:29	
Flowrate (Nm3/hr)	266424	143754	184849	210646	
SO2 measured conc.(mg/Nm3)	72.8 (+/- 2.5)	20 (+/- 1.0)	7 (+/-2.4)	207 (+/-8.0)	
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 (%)	5%	0%	100%	44%	
BF gas (%)	58%	91%			
Coke oven gas (%)	14%	9%	0%	56%	
BOS Gas (%)	23%				

* EC - electrochemical cell

A39 has a 6 monthly monitoring requirement

Signed on behalf of the Operator



Dated 18/04/17

Form I&S DCM SO₂

RELEASES INTO AIR

Operational summary for quarter ending 31-Mar-17

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	06-Mar-17 10:42	07-Mar-17 10:30	28-Feb-17 10:05	- -	- -
Flowrate (Nm3/hr)	7,390	266424	143754	-	-
Measured conc.(mg/Nm3)	0.1 (+/-0.2)	6269 (+/-234.1)	7046 (+/- 262.5)	-	-
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 (%)		5%	0%		
BF gas (%)		58%	91%		
Coke oven gas (%)		14%	9%		
BOS Gas (%)		23%			

* EC - electrochemical cell

* No limit for A46 in new permit.

A39 has a 6 monthly monitoring requirement

Signed on behalf of the Operator

Dated 18/04/17



Form I&S DCM Misc

Operational summary for quarter ending 31-Mar-17

Release Points: A4A, A5A, & iron plating

Liquid Iron Plating Operations (Iron Plating Pit)			
Date	Time	Tonnes	Reason
27/03/17	16:40	237	Metallurgy Reasons
27/03/17	16:04	192	Metallurgy Reasons
27/03/17	14:50	278	Metallurgy Reasons
27/03/17	13:45	178	Metallurgy Reasons
16/03/17	18:00	237	Metallurgy Reasons
16/03/17	15:03	273	Metallurgy Reasons
16/03/17	13:41	294	Metallurgy Reasons
16/03/17	12:24	209	Metallurgy Reasons
06/03/17	12:00	228	Metallurgy Reasons
06/03/17	10:15	285	Metallurgy Reasons
03/03/17	12:02	300	Metallurgy Reasons
03/03/17	10:47	250	Metallurgy Reasons
03/03/17	04:14	217	Metallurgy Reasons
25/02/17	08:57	161	Metallurgy Reasons
25/02/17	08:17	228	Metallurgy Reasons
Total		3567	

Dated 19/04/17

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-17

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
24/02/17	10:09	80	Metallurgy Reasons
24/02/17	09:25	218	Metallurgy Reasons
22/02/17	00:33	228	Metallurgy Reasons
21/02/17	23:54	228	Metallurgy Reasons
21/02/17	13:41	270	Metallurgy Reasons
21/02/17	13:04	240	Metallurgy Reasons
21/02/17	12:21	60	Metallurgy Reasons
21/02/17	08:38	60	Metallurgy Reasons
20/02/17	21:29	184	Metallurgy Reasons
20/02/17	20:36	240	Metallurgy Reasons
20/02/17	19:38	237	Metallurgy Reasons
20/02/17	18:30	247	Metallurgy Reasons
20/02/17	17:27	60	Metallurgy Reasons
20/02/17	13:07	60	Metallurgy Reasons
20/02/17	05:55	60	Metallurgy Reasons
20/02/17	00:11	50	Metallurgy Reasons
19/02/17	15:42	228	Metallurgy Reasons
19/02/17	14:35	50	Metallurgy Reasons
19/02/17	14:20	228	Metallurgy Reasons
19/02/17	11:18	180	Metallurgy Reasons
19/02/17	10:53	247	Metallurgy Reasons
19/02/17	05:31	66	Metallurgy Reasons
19/02/17	01:23	66	Metallurgy Reasons
18/02/17	19:13	30	Metallurgy Reasons
18/02/17	18:47	228	Metallurgy Reasons
18/02/17	17:29	184	Metallurgy Reasons
18/02/17	14:34	228	Metallurgy Reasons
18/02/17	13:46	228	Metallurgy Reasons
18/02/17	10:44	30	Metallurgy Reasons
18/02/17	02:41	30	Metallurgy Reasons
17/02/17	17:30	190	Metallurgy Reasons
17/02/17	16:46	44	Metallurgy Reasons
17/02/17	16:45	207	Metallurgy Reasons
17/02/17	10:33	66	Metallurgy Reasons
17/02/17	09:59	217	Metallurgy Reasons
17/02/17	08:55	218	Metallurgy Reasons
17/02/17	03:52	30	Metallurgy Reasons
16/02/17	22:34	30	Metallurgy Reasons
16/02/17	18:24	50	Metallurgy Reasons
16/02/17	13:39	30	Metallurgy Reasons
Total		5627	

Signed on behalf of the Operator ...



Dated 19/04/17

Form I&S Operational 1

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-17

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
16/02/17	11:22	30	Metallurgy Reasons
16/02/17	09:15	40	Metallurgy Reasons
16/02/17	05:14	237	Metallurgy Reasons
16/02/17	04:11	224	Metallurgy Reasons
16/02/17	03:38	30	Metallurgy Reasons
15/02/17	23:42	30	Metallurgy Reasons
15/02/17	18:05	30	Metallurgy Reasons
15/02/17	13:52	10	Metallurgy Reasons
15/02/17	11:59	30	Metallurgy Reasons
25/01/17	04:48	230	Metallurgy Reasons
25/01/17	04:09	219	Metallurgy Reasons
21/01/17	19:26	240	Metallurgy Reasons
21/01/17	18:38	208	Metallurgy Reasons
17/01/17	11:29	190	Metallurgy Reasons
17/01/17	10:52	228	Metallurgy Reasons
16/01/17	19:27	237	Metallurgy Reasons
15/01/17	11:05	278	Metallurgy Reasons
15/01/17	10:05	218	Metallurgy Reasons
15/01/17	04:51	171	Metallurgy Reasons
15/01/17	04:18	217	Metallurgy Reasons
14/01/17	11:27	230	Metallurgy Reasons
14/01/17	10:50	290	Metallurgy Reasons
12/01/17	22:11	189	Metallurgy Reasons
12/01/17	21:43	282	Metallurgy Reasons
12/01/17	19:54	162	Metallurgy Reasons
12/01/17	19:13	278	Metallurgy Reasons
12/01/17	14:39	240	Metallurgy Reasons
12/01/17	13:26	228	Metallurgy Reasons
12/01/17	05:52	228	Metallurgy Reasons
12/01/17	05:18	228	Metallurgy Reasons
10/01/17	07:50	278	Metallurgy Reasons
10/01/17	07:03	184	Metallurgy Reasons
10/01/17	06:25	228	Metallurgy Reasons
10/01/17	04:51	250	Metallurgy Reasons
10/01/17	04:12	225	Metallurgy Reasons
10/01/17	03:06	282	Metallurgy Reasons
Total		6899	

Signed on behalf of the Operator



Dated 19/04/17

Form I&S Operational 1

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-17

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
08/01/17	23:56	171	Metallurgy Reasons
08/01/17	23:19	198	Metallurgy Reasons
07/01/17	16:49	166	Metallurgy Reasons
07/01/17	16:16	235	Metallurgy Reasons
06/01/17	20:30	190	Metallurgy Reasons
06/01/17	20:03	267	Metallurgy Reasons
06/01/17	16:34	200	Metallurgy Reasons
06/01/17	16:16	194	Metallurgy Reasons
05/01/17	10:38	240	Metallurgy Reasons
04/01/17	22:36	261	Metallurgy Reasons
02/01/17	16:49	228	Metallurgy Reasons
Total		4222	

Signed on behalf of the Operator

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Dated 19/04/17

Form I&S Operational 1

RELEASES INTO AIR

Operational summary for quarter ending 31-Mar-17

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	0.1	2.9	2.0	0.2	2.3	100%	100%
	Feb		4	1.8	0.4	17.4	1.8	0.8	2.4	100%	100%
	Mar		2	1.9	0.1	2.9	1.8	0.2	2.1	100%	100%
A8B	Jan	15 Daily mean	3	2.1	0.1	4.0	1.7	0.3	6.6	100%	100%
	Feb		10	1.9	1.9	21.8	1.6	2.6	2.8	100%	100%
	Mar		4	2.1	0.3	8.3	1.7	0.5	2.3	100%	100%
A9	Jan	15 Daily mean	9	0.0	2.3	21.8	0.6	3.0	0.8	100%	100%
	Feb		12	0.0	3.1	18.3	0.7	3.3	1.1	100%	100%
	Mar		9	0.0	2.2	22.6	0.3	4.4	0.8	100%	100%
A2*	Jan	30 Daily mean	46	3.7	10.6	91.8	0.0	13.4	20.3	100%	100%
	Feb		37	6.5	7.2	64.4	0.0	9.6	17.7	100%	100%
	Mar		102	8.0	26.5	144.1	0.0	31.9	41.4	100%	100%
A10	Jan	15 Daily mean	7	2.6	1.2	12.7	5.1	2.0	4.7	100%	100%
	Feb		8	1.3	1.6	12.9	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		18	0.1	5.4	30.1	0.4	9.0	4.7	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		7	2.4	1.4	15.1	3.5	2.6	4.2	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		3	0.7	0.5	5.6	1.5	0.9	2.0	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 19/04/17

Form I&S CEMS Parts 1 & 2

RELEASES INTO AIR

Operational summary for quarter ending 31-Mar-17

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)		
03-Jan-17	00:05	29m	Unplanned	Pallet change for hole, bars missing from back row on North side, 64a off and 126 on
03-Jan-17	16:04	1h 34m	Unplanned	Plant stopped due to north fan having been on stop for a period due to fitting new vane actuator encoder. When going to start fan found fan running in reverse running through brake.
04-Jan-17	16:50	1h 35m	Unplanned	Load Management
04-Jan-17	10:57	19m	Unplanned	Strand stopped, strand device net comms error alarm came up, electrical rebooted plant restarted.
05-Jan-17	16:50	1h 29m	Unplanned	Load Management
05-Jan-17	14:35	25m	Unplanned	Conveyor stopped while hi line swapping bunkers. Belt dug off on three occasions. Harsco called to wash out head chute.
06-Jan-17	03:02	1h 23m	Unplanned	DDV not indicating any suction, inspected and cover removed fully blocked same cleaned out
06-Jan-17	04:25	2h 40m	Unplanned	Screen tripped on overload x 2 after plant stop for 1049DDV.
09-Jan-17	11:28	1h 32m	Unplanned	Stopped to patch mixer and pick up other issues.
09-Jan-17	18:36	16m	Unplanned	Belt slipping due to water spraying onto under side of belt and drive drum lagging in poor condition.
10-Jan-17	08:58	34m	Unplanned	Pallet change No 52 off and 28 on.
12-Jan-17	05:58	10h 52m	Planned	Planned maintenance period
12-Jan-17	16:50	1h 40m	Unplanned	Load Management requirement
12-Jan-17	18:30	1h 49m	Planned	Continuation of PM stop after Load Management
12-Jan-17	20:31	29m	Unplanned	issues with burners.
14-Jan-17	19:07	53m	Unplanned	i-fix issues stopping plant 1027 conveyor then ore weighers indicating deviation. Strand speed zero although mimic for strand / roll feeder showing running.issue with power supply
15-Jan-17	00:37	28m	Unplanned	Pallet holed (No. 131) leading row south side, re bar carried out on strand.
15-Jan-17	05:05	20m	Unplanned	Approx 30bar Grate bars missing from middle of trailing row
09-Jan-17	13:00	2h 30m	Unplanned	Stop for personnel to attend Pension Roadshow
09-Jan-17	15:30	42m	Unplanned	Actuator vanes stuck shut
16-Jan-17	16:45	1h 35m	Unplanned	Load management called from 17:00 - 18:00
17-Jan-17	11:13	26m	Unplanned	Trailing wheel on the south side of pallet 92 off, pallet changed with 125.
17-Jan-17	12:52	1h 30m	Unplanned	1028 conveyor stopped and no route at the high line.
17-Jan-17	16:44	1h 53m	Unplanned	Load management called for 17:00 - 18:00
18-Jan-17	07:20	2h 54m	Unplanned	1028 electrical fault, issues with drive current limits. Also found material build up under return rollers and issues with rollers seized.
18-Jan-17	16:42	1h 39m	Unplanned	Load management called 17:00 - 18:00
19-Jan-17	11:58	44m	Unplanned	North fan tripped, comms fault. South fan stopped as north gone into windmill
19-Jan-17	16:51	1h 56m	Unplanned	Load management 17.00-18.30
20-Jan-17	20:27	21m	Unplanned	Pallet change 107 off 52 on
22-Jan-17	19:34	17m	Unplanned	3 pilots failed then slam shut
23-Jan-17	16:47	1h 58m	Unplanned	Load or Energy Stop at Peak Rate Period
23-Jan-17	21:17	21m	Unplanned	Inspecting 1049 chain conveyor / DDV
24-Jan-17	16:51	1h 20m	Unplanned	Load Management
25-Jan-17	21:55	21m	Unplanned	Pallet change for hole.
26-Jan-17	04:58	12h 2m	Planned	Planned Maintenance
26-Jan-17	21:43	24m	Unplanned	Stop to Sinter through on the Strand.
27-Jan-17	09:20	5h 15m	Unplanned	Issues with all double dome valves (DDV) after stop on Thursday, all cleaned required to be opened up to clean out.
29-Jan-17	00:40	27m	Unplanned	Fan tripped on vibration. North Motor DE Vertical
26-Jan-17	17:00	1h 30m	Unplanned	Load Management
26-Jan-17	18:30	2h 14m	Planned	Planned Maintenance

Signed on behalf of the Operator ... 

Dated 20/04/17

Form Sinter Operational

RELEASES INTO AIR

Form Sinter Operational Cont.

Operational summary for quarter ending 31-Mar-17

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)		
29-Jan-17	07:23	1h 2m	Unplanned	Removal of thruster bearing jammed in lifting station area/ Changed pallet during this period
30-Jan-17	09:22	18m	Unplanned	North waste fan tripped de vertical/swg fan windmilling
30-Jan-17	14:50	29m	Unplanned	Pallet change 27 off 57 on
30-Jan-17	16:14	30m	Unplanned	Pallet change Hole 132 Off 64c On
01-Feb-17	10:24	28m	Unplanned	Pallet change for hole - 130 off and 84 on
01-Feb-17	11:00	3h 34m	Unplanned	Delay to carry out repairs to cooler.
01-Feb-17	15:25	4h 20m	Unplanned	Delay to carry out repairs to cooler due to 3 wheels coming adrift
30-Jan-17	06:05	23m	Unplanned	Stop 06:05-06:28, NWG fan trip on vibration followed by windmill. South fan stopped to prevent.
02-Feb-17	20:53	2h 37m	Unplanned	Delay to cooler wheel de-railment
03-Feb-17	00:06	16m	Unplanned	Delay when hood tripped on consecutive burners
03-Feb-17	01:06	41m	Unplanned	Delay to carry out weld repairs to cooler
03-Feb-17	11:52	1h 5m	Unplanned	Stopped to carry out further repairs to cooler.
06-Feb-17	11:58	5h 8m	Unplanned	Deck collapsed. During stop welded repairs to cooler, changed rod on 1009
07-Feb-17	12:20	33m	Unplanned	Pallet change
08-Feb-17	14:37	2h 42m	Unplanned	Delay to replace 1027 snub dum
09-Feb-17	05:30	11h 45m	Planned	Planned 12hr stop
10-Feb-17	00:03	18m	Unplanned	Cold crusher stopped. Reversed several times
10-Feb-17	00:24	26m	Unplanned	Cold crusher stopped. Reversed several times
10-Feb-17	10:03	26m	Unplanned	WG Fans bearing water cooling standby pump found to have issues, when faults found and pumps switched over to prove pump was available The North and South WGF tripped due to low water flow.
10-Feb-17	11:02	20m	Unplanned	1028 stopped with the belt full of material amps were reading 120. When out on 1028 material was over flowing from 1027 head chute bunker level was reading 94%.
08-Feb-17	18:08	22m	Unplanned	Plant stopped at 18:08 hrs, - 18:30 lost the hearth layer bunker due to fault on 1036-con.
09-Feb-17	17:15	1h 30m	Unplanned	Load Management
09-Feb-17	18:45	2h 45m	Unplanned	Server issues
13-Feb-17	06:40	1h 28m	Unplanned	1005 conveyor material build up at tail end, mixer lump in 1005/1004 chute causing spillage from chute. bobcat called from harbour
14-Feb-17	11:15	25m	Unplanned	1005 tailend material build up (Lumps jammed in 1004 headchute)
15-Feb-17	21:01	38m	Unplanned	Checking and trimming 1022/1023 chute...
16-Feb-17	18:37	56m	Unplanned	1004/1005 chute built up & overflowed tail end of 1005.
16-Feb-17	14:01	2h 35m	Unplanned	Delay to replace lower bend drum on 1027
20-Feb-17	08:36	32m	Unplanned	Pallet change 111 off 86 on. Grate bars missing from trailing row
22-Feb-17	20:45	35m	Unplanned	Jeting 1004/1005 chute in readiness for planned maintenance stop on day shift
23-Feb-17	05:02	14h 1m	Unplanned	12hr planned stop.
23-Feb-17	20:04	26m	Unplanned	Stop to sinter though on completion of filling strand after maintenance period. To ensure sinter fully sintered to prevent issues on product belts
24-Feb-17	10:15	4h 20m	Unplanned	Delay to replace section of damaged rail on cooler
24-Feb-17	15:04	1h 7m	Unplanned	Delay due to failure of raw mix hopper load cell
25-Feb-17	09:42	29m	Unplanned	Pallet change for hole, 5 off 107 on, missing grate bars on Front row South side.
27-Feb-17	13:53	48m	Unplanned	Checking roll feeder motor due to spiking current
28-Feb-17	08:52	30m	Unplanned	Pallet change No118 off, No130 on
01-Mar-17	11:05	30m	Unplanned	Pallet change No76 off No5 on

Signed on behalf of the Operator

Dated 20/04/17

Form Sinter Operational

RELEASES INTO AIR

Form Sinter Operational Cont.

Operational summary for quarter ending

31-Mar-17

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

[illegible]

Signed on behalf of the operator
Dated: 20-Apr-17

LyBrooks Jambury.

RELEASES INTO AIR

Operational summary for quarter ending 31-Mar-17

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	8.6	1.0	1.2	12.7	1.1	5.5	3.0	100%	100%
	Feb	Daily mean	2.4	0.6	1.6	12.9	0.7	2.5	1.1	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 20/04/17

Form I&S CEMS Part 3

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-17

Operator: Port Talbot Works

Location: Port Talbot Works

Permit: BL7108 / RP3730BV

	NOx (tonnes)	Lead (tonnes)	PM10 (tonnes)	CO2 (k tonnes)
Morfa	91			
Iron & Steel	657	1.7	313	1491
Total	747	1.7	313	1491

Signed on behalf of the Operator



Dated 21/04/17

Form KPI

RELEASES INTO AIR

Operational Summary for quarter ending 31-Mar-17

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	07-Mar-17 11:10	28-Feb-17 10:05
Flowrate (Nm3/hr)	250,346	208,861
Particulate measured conc. (mg/Nm3)	0.4 (+/-0.7)	5.2 (+/-0.9)
Particulate limit (mg/Nm3)	10	10
Sampling method used	BS EN 13284	BS EN 13284
Analytical method used	Gravimetric	Gravimetric
Fuel Usage		
Natural gas (%)	5%	0%
BF gas (%)	58%	91%
Coke oven gas (%)	14%	9%
BOS (%)	23%	

Signed on behalf of the Operator



Dated

20/04/2017

Form Blast Furnace DCM Part