

RELEASES INTO AIR

Operational Summary for the month Mar-2015

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)								
								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-Mar-15	*	100%	100%	79%	0.043	0.031	11.65	*	*	*	*	*	0	*	*	*
02-Mar-15	66	100%	100%	74%	0.043	0.031	11.65	79	*	*	*	*	106	79	69	11
03-Mar-15	51	100%	100%	87%	0.043	0.031	11.65	64	104	63	0	33	121	64	0	39
04-Mar-15	71	100%	100%	100%	0.043	0.031	11.65	77	86	77	74	3	86	77	73	3
05-Mar-15	71	100%	100%	100%	0.043	0.031	11.65	78	86	78	70	4	95	78	59	7
06-Mar-15	72	100%	100%	100%	0.043	0.031	11.65	88	96	88	78	7	120	88	77	10
07-Mar-15	72	100%	100%	100%	0.039	0.026	10.97	89	129	88	76	16	189	89	74	24
08-Mar-15	72	100%	100%	100%	0.039	0.026	10.97	86	95	87	79	5	105	86	45	12
09-Mar-15	74	100%	100%	100%	0.039	0.026	10.97	87	104	87	78	7	127	87	78	11
10-Mar-15	78	100%	100%	100%	0.039	0.026	10.97	82	85	82	80	2	87	82	79	2
11-Mar-15	15	100%	100%	100%	0.039	0.026	10.97	41	121	36	0	45	254	41	0	74
12-Mar-15	69	100%	100%	100%	0.034	0.034	10.99	92	161	97	47	24	231	92	0	48
13-Mar-15	48	100%	100%	100%	0.034	0.034	10.99	84	93	85	77	4	96	84	74	6
14-Mar-15	58	100%	100%	100%	0.034	0.034	10.99	93	103	95	77	6	109	93	25	15
15-Mar-15	74	100%	100%	100%	0.034	0.034	10.99	92	101	90	77	9	114	92	77	11
16-Mar-15	75	100%	100%	100%	0.034	0.034	10.99	87	96	88	82	4	122	87	52	11
17-Mar-15	76	100%	100%	100%	0.034	0.034	10.99	92	116	93	83	9	135	92	24	14
18-Mar-15	75	100%	100%	100%	0.033	0.016	10.72	80	89	80	69	6	91	80	68	7
19-Mar-15	73	100%	100%	100%	0.033	0.016	10.72	82	100	81	66	10	111	82	65	12
20-Mar-15	70	100%	100%	93%	0.033	0.016	10.72	94	107	94	81	9	115	94	62	12
21-Mar-15	27	100%	100%	86%	0.033	0.016	10.72	73	114	72	22	23	149	73	0	42
22-Mar-15	25	100%	100%	24%	0.033	0.016	10.72	36	99	38	0	42	105	36	0	44
23-Mar-15	74	100%	100%	33%	0.03	0.050	11.93	68	79	69	60	6	94	68	50	8
24-Mar-15	72	100%	100%	83%	0.030	0.050	11.93	66	92	67	50	11	108	66	48	14
25-Mar-15	56	100%	100%	77%	0.030	0.050	11.93	54	80	57	0	22	112	54	38	31
26-Mar-15	46	100%	100%	100%	0.030	0.050	11.93	43	62	40	1	14	88	43	4	20
27-Mar-15	69	100%	100%	100%	0.030	0.050	11.93	58	89	56	39	15	111	58	23	22
28-Mar-15	69	100%	100%	100%	0.030	0.050	11.93	44	81	46	27	14	107	44	24	18
29-Mar-15	72	100%	100%	100%	0.030	0.050	11.93	60	95	59	37	17	139	60	31	30
30-Mar-15	72	100%	100%	100%	0.030	0.050	11.93	52	*	*	*	*	67	52	41	8
31-Mar-15	*	100%	100%	100%	0.030	0.050	11.93	*	*	*	*	*	*	*	*	*
Month ave	-	100%	100%	91%	0.04	0.03	11.3	73	-	74	-	-	-	73	-	-
Month max.	78	-	-	-	0.04	0.05	11.9	94	161	-	-	-	254	-	-	-
Limit	-	-	-	-	0.06	-	-	115	200	-	-	-	-	-	-	-

* Monitors not returning 100% data returning false readings

Signed on behalf of the Operator

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Dated 24/04/2015

Form Sinter CEMS

RELEASES TO AIR

Operational summary for quarter ending 31-Mar-15

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	37428		
	Month 2	33920		
	Month 3	50974		
A13A BOS convertor 2 gas flare	Month 1	74856		
	Month 2	67839		
	Month 3	101948		
A33 Blast furnace gas flare stack no.1	Month 1	41577		
	Month 2	40584		
	Month 3	168298		
A33C Blast furnace gas flare stack no.2	Month 1	143285		
	Month 2	107312		
	Month 3	214354		
A33A Blast furnace gas main number 4 bleeder	Month 1		825	
	Month 2		1478	
	Month 3		41	
A33B Blast furnace gas main number 5 bleeder	Month 1		9755	
	Month 2		10066	
	Month 3		670	
A59 Coke oven gas triple flare	Month 1	9755		
	Month 2	80213		
	Month 3	110216		
Blast furnaces 4 and 5	Month 1			2094161
	Month 2			1545854
	Month 3			1731017
Coke ovens	Month 1			620806
	Month 2			516563
	Month 3			514995
BOS Plant	Month 1			285366
	Month 2			196501
	Month 3			206544

Signed on behalf of the Operator

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Dated

24/04/15

Form Installation gas

WASTE PRODUCTION

Operational summary for quarter ending 31-Mar-15

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	52775	5910					
	Feb	37045	7125					
	Mar	39940	4463					
Iron and steel installation	Jan			2727	244			
	Feb			2985	337			
	Mar			3291	216			
BF4 tapholes	Jan					45599		
	Feb					37729		
	Mar					43531		
BF5 tapholes	Jan					44568		
	Feb					38986		
	Mar					48676		
BF5	Jan							0
	Feb							0
	Mar							0
Coke ovens	Jan						209	**
	Feb						172	**
	Mar						170	**

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

** WID compliant Oil.

Signed on behalf of the Operator

Dated 24/04/15

Form Waste 1

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-15

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	-	12-Feb-15	-	-	16-Mar-15	-
	-	11:24	-	-	14:02	-
Flowrate (Nm ³ /hr)	-	86672	-	-	210447	-
NO _x measured conc. (mg/Nm ³)	-	32	-	-	37	-
NO _x limit (mg/NM ³)	300 BFG/COG 450 HFO	300 BFG/COG 450 HFO	300 BFG/COG 450 HFO	300 BFG/COG 450 HFO	300 BFG/COG 450 HFO	200 BFG&NG 450 HFO
Sampling method used	ISO 10849	ISO 10849	ISO 10849	ISO 10849	ISO 10849	ISO 10849
Analytical method used	EC*	EC*	EC*	EC*	EC*	EC*
Continuous hourly monitoring result over the period	-		-	-		-
Fuel usages over the sampling period						
Natural gas (%)	-	0%	-	-	0%	-
BF gas (%)	-	91%	-	-	96%	-
Coke oven gas (%)	-	9%	-	-	4%	
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 24/04/15

Form LCPD DCM NO_x

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-15

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	-	12-Feb-15	-	-	16-Mar-15	-
	-	11:24	-	-	14:02	-
Flowrate (Nm ³ /hr)	-	86672	-	-	210447	-
SO ₂ measured conc. (mg/Nm ³)	-	57	-	-	48	-
SO ₂ limit (mg/NM ³)	800 BFG/COG 1700 HFO	800 BFG/COG 1700 HFO	800 BFG/COG 1700 HFO	800 BFG/COG 1700 HFO	800 BFG/COG 1700 HFO	400 BFG&NG -
Sampling method used	BS 6069	BS 6069	BS 6069	BS 6069	BS 6069	BS 6069
Analytical method used	EC*	EC*	EC*	EC*	EC*	EC*
Continuous hourly monitoring result over the period	-		-	-		-
Fuel usages over the sampling period						
Natural gas (%)	-	0%	-	-	0%	-
BF gas (%)	-	91%	-	-	96%	-
Coke oven gas (%)	-	9%	-	-	4%	
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 24/04/15

Form LCPD DCM SO₂

RELEASES INTO AIR

Operational summary for quarter ending 31-Mar-15

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	39114	74413	2008		115536
	Feb	0	30813	28397	1308		60517
	Mar	0	55498	46604	2438		104541
A50B Service Boiler 5	Jan	0	31333	68230	0		99563
	Feb	0	40436	37069	0		77505
	Mar	0	8279	14945	0		23224
A51 Boiler A5	Jan	46	9568	72530	3317	1210	86671
	Feb	11	8886	54573	846	70	64386
	Mar	181	6605	58669	1067	55	66578
A52A Boiler 6	Jan	2219	51134	280133	33185	65866	432536
	Feb	332	71274	219624	32352	24286	347868
	Mar	0	76335	237046	24307	6147	343836
A52B Boiler 7	Jan	1249	32817	279149	37437	65661	416313
	Feb	439	42412	221767	33170	24500	322288
	Mar	0	57589	237852	23514	6158	325112
A53 Mitchell	Jan	1027	9055	142096	6244		158423
	Feb	27	5194	111313	2967		119500
	Mar	93	6946	96959	2912		106910
A62 Boiler 3	Jan			241066	10150	4039	255255
	Feb			177972	10763	249	188984
	Mar			188559	4075	198	192832
Total	Jan	4541	173021	1157617	92342	136776	1564297
	Feb	808	199016	850714	81405	49106	1181048
	Mar	275	211252	880633	58314	12559	1163033

Signed on behalf of the Operator

Dated 24/04/15

Form LCPD Fuels

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-15

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	Jan	2.2	23.6	06/01/2015 11:00	0.3	2.3	100.0%
	Feb	3.1	35.7	02/02/2015 15:00	0.6	2.7	100.0%
	Mar	2.1	26.1	03/03/2015 19:00	0.4	2.5	100.0%
A51 Boiler A5	Jan	1.6	48.8	20/1/2015 16:00	0.5	2.6	100.0%
	Feb	1.7	31.3	11/02/2015 2:00	0.6	1.5	100.0%
	Mar	2.3	29.4	02/03/2015 9:00	1.3	1.5	100.0%
A52A Boiler 6	Jan	2.1	14.5	19/1/2015 17:00	1.7	0.8	100.0%
	Feb	2.2	9.7	07/02/2015 18:00	1.9	0.7	100.0%
	Mar	2.0	5.4	09/03/2015 12:00	1.6	0.2	100.0%
A52B Boiler 7	Jan	1.6	16.7	20/1/2015 17:00	1.1	1.1	100.0%
	Feb	1.7	12.3	10/02/2015 22:00	1.0	1.0	100.0%
	Mar	1.1	4.2	09/03/2015 12:00	0.8	0.3	100.0%
A53 Mitchell	Jan	3.6	43.8	19/1/2015 16:00	2.0	2.3	100.0%
	Feb	3.5	62.2	11/02/2015 8:00	2.1	3.3	100.0%
	Mar	2.8	21.6	06/03/2015 3:00	0.0	1.8	100.0%

Signed on behalf of the Operator



Dated 24/04/15

Form LCPD CEM Parts

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-15

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	113.5	218.0	09/01/2015 10:00	26.0	44.1	11.3%
	Feb	181.3	277.2	26/02/2015 19:00	18.9	50.1	39.9%
	Mar	128.2	322.8	25/03/2015 14:00	2.3	58.2	100.0%
A52B Boiler 7	Jan			N/A			0.0%
	Feb	173.8	379.0	10/02/2015 22:00	22.8	45.1	66.7%
	Mar	177.1	437.1	10/03/2015 16:00	21.8	69.1	100.0%
A50A & A50B Service Boilers	Jan	142.2	750.6	14/1/2015 15:00	10.9	113.9	100.0%
	Feb	201.5	1073.6	05/02/2015 10:00	15.2	186.8	100.0%
	Mar	149.2	499.9	20/03/2015 19:00	7.3	104.7	100.0%
SULPHUR DIOXIDE (mg/Nm3) - CONTINUOUS EMISSIONS MONITORING							
Release point	Month	Month mean LIMITS: BFG/COG=800	Maximum hourly mean	Date & time of maximum value	Minimum hourly mean	Standard deviation of hourly means	% data capture over month
A52A Boiler 6	Jan	133.0	230.0	12/01/2015 21:00	17.7	53.9	23.1%
	Feb	227.3	309.2	21/02/2015 11:00	43.5	48.0	39.9%
	Mar	144.7	299.1	25/03/2015 10:00	0.3	62.5	100.0%
A52B Boiler 7	Jan			N/A			0.0%
	Feb	117.8	308.8	10/02/2015 22:00	3.2	52.6	66.7%
	Mar	181.1	435.7	10/03/2015 11:00	4.7	76.8	100.0%
A50A & A50B Service Boilers	Jan	169.0	1067.4	18/1/2015 22:00:00	0.0	211.4	100.0%
	Feb	349.1	1172.6	14/02/2015 5:00	0.0	282.6	100.0%
	Mar	313.3	847.3	27/03/2015 11:00	0.0	214.2	100.0%

Signed on behalf of the Operator



Dated 24/04/15

Form LCPD CEMS SO2 & NOx

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-15

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 LIMIT=30	Monthly mean	Date & time of maximum value	Minimum daily mean	Standard deviation of daily means	% data capture
A62 Boiler 3	Jan	9.1	3.6	19-Jan-15	2.1	1.7	100.0%
	Feb	9.6	3.9	03-Feb-15	2.3	1.6	100.0%
	Mar	5.6	3.1	25-Mar-15	2.4	0.8	100.0%
SULPHUR DIOXIDE (mg/Nm3) - CONTINUOUS EMISSIONS MONITORING							
Release point	Month	Maximum daily mean LIMIT=400	Monthly mean	Date & time of maximum value	Minimum daily mean	Standard deviation of daily means	% data capture
A62 Boiler 3	Jan	44.5	17.9	17-Jan-15	2.0	9.7	100.00%
	Feb	42.0	17.3	27-Feb-15	4.3	10.3	100.00%
	Mar	33.1	16.5	05-Mar-15	5.4	7.4	100.00%
OXIDES OF NITROGEN (mg/Nm3) - CONTINUOUS EMISSIONS MONITORING							
Release point	Month	Maximum daily mean LIMIT=200	Monthly mean	Date & time of maximum value	Minimum daily mean	Standard deviation of daily means	% data capture
A62 Boiler 3	Jan	54.1	30.0	17-Jan-15	16.3	9.0	100.00%
	Feb	81.6	34.7	04-Feb-15	14.6	17.2	100.00%
	Mar	36.0	26.3	14-Mar-15	16.1	5.0	100.00%

Signed on behalf of the Operator

Dated 24/04/15

Form LCPD CEM A62

Operational summary for quarter ending 31-Mar-15

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

* Exceeds 10 day invalidation target. Notification issued.
 ** A number of invalidations made. Aggregated 10 invalid days for 2014.
Signed on behalf of the Operator 

Form LCPD CEMS LOG

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-15

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)	115	500	275	
Measured conc. according to condition 10.1.3b	81	419	209	6250
Measured oxygen content (%)	17.3	17.7	17.7	17.7
Measured conc. according to condition 10.1.3a (17%O2)	87	503	251	7500
Sampling method used	BS EN 13284	BS 6069	ISO 10849	BS ISO 12039
Analytical method used	Gravimetric	*EC	*EC	*EC
Date of sampling	03-Mar-15	03-Mar-15	03-Mar-15	03-Mar-15
Sample start time	11:10	11:10	11:10	11:10
Sample end time	12:11	12:11	12:11	12:11
Sample duration (mins)	61	61	61	61
Limit of detection	0.96	1.6	1.4	0.0
Continuous monitor result over the sampling period	58.5			
Process status at the time of sampling				
Mean sulphur content of sinter blend in use (%)	0.043	0.043	0.043	0.043
Reverts content of sinter blend in use (%)	11.7	11.7	11.7	11.7
Mean chloride content of sinter blend in use (%)	0.03	0.03	0.03	0.03
Throughput during sampling period (% of maximum)	50.8	50.8	50.8	50.8

* EC - electrochemical cell

Signed on behalf of the Operator



Dated 24/04/15

Form Sinter DCM 1

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-15

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	6.8	6.8	3.9	19.5	13.8	4.8	0.9	6.1	6.1	2.4	12.2	11.6	4.3	1.4	0.1	0.1	0.0	0.3	0.3	0.2	0.2
February	8.8	8.8	2.8	19.9	13.1	2.7	0.8	5.4	5.4	1.8	10.3	9.2	3.1	1.3	0.1	0.1	0.0	0.3	0.2	0.1	0.1
March	9.9	9.9	3.0	28.6	22.5	3.7	0.5	4.7	4.7	1.8	10.1	9.3	2.8	0.8	0.1	0.1	0.1	0.3	0.2	0.2	0.1
April																					
May																					
June																					
July																					
August																					
September																					
October																					
November																					
December																					
Totals	25	25	10	68	49	11	2	52	52	6	33	30	10	11	1.5	1.5	####	####	####	####	1.3
	191							194							####						
	Service	A5	Margam C	Mit	3			Service	A5	Mgm C	Mit	3			Service	A5	Mgm C	Mit	3		
Boiler Plant Totals	51	10	117	11	2			104	6	63	10	11			3	####	####	####	####	1	
NERP Annual Limit (T)	686	251	2219	575				252	96	929	212				20	4	56	10			

Signed on behalf of the Operator

Dated 24/04/15

Form LCPD Monthly 1

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-15

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	31-Mar-15 14:47	04-Feb-15 11:35	11-Mar-15 10:50	-	-	18-Mar-15 10:22	18-Mar-15 11:50	- -
Flowrate (Nm3/hr)	300929	226855	113574	-	-	175418	211263	-
NOx measured conc.(mg/Nm3) **	103	85	11	-	-	44	544	-
Oxygen content (%)			20.82	-	-			
NOx limits (mg/Nm3)	145	145	475	475	475	1800	1800	115
Sampling method used	ISO 10849	ISO 10849	ISO 10849	-	-	ISO 10849	ISO 10849	ISO 10849
Analytical method used	EC *	EC *	EC *	-	-	EC *	EC *	EC *
Continuous hourly monitoring result over the period								
Fuel usages over the sampling period								
Natural gas (%)	7%	0%	100%	-	-	77%	71%	-
BF gas (%)	67%	74%						-
Coke oven gas (%)	7%	26%				23%	29%	
BOS Gas (%)	19%							

* EC - electrochemical cell

** A30, A31 & A32 corrected to 10.1.3b

A39 has a 6 monthly monitoring requirement.

*** A31 & A32 are not operational

Signed on behalf of the Operator



Dated 24/04/15

Form I&S DCM NOx

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-15

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	31-Mar-15 14:47	04-Feb-15 11:35	18-Mar-15 10:22	18-Mar-15 11:50	- -
Flowrate (Nm3/hr)	300929	226855	175418	211263	-
SO2 measured conc.(mg/Nm3)	129	85	44	544	-
SO2 limits (mg/Nm3)	370	370	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 (%)	7%	0%	77%	71%	-
BF gas (%)	67%	74%			-
Coke oven gas (%)	7%	26%	23%	29%	
BOS Gas (%)	19%				

* EC - electrochemical cell

A39 has a 6 monthly monitoring requirement

Signed on behalf of the Operator

Dated 24/04/15

Form I&S DCM SO2

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-15

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)	A24 ***	
Parameter	Chloride (as HCl)	Carbon monoxide			Oxides of nitrogen	Sulphur dioxide	Oxides of nitrogen
Time and date of sampling	30-Mar-15 13:43	31-Mar-15 14:47	04-Feb-15 11:35	-	-		
Flowrate (Nm3/hr)	17,837	300929	226855	-	-		
Measured conc.(mg/Nm3)	1	6250	1091	-	-		
Emission limits (mg/Nm3)	5				350		
Sampling method used	Isokinetic	BS ISO 12039	BS ISO 12039	BS ISO 12039	ISO 10849		
Analytical method used	BSEN1911	EC *	EC *	EC *	EC *		
Emission limits (kg/quarter)						60000	60000
Releases (kg/qtr)						-	-
Fuel usages over the sampling period							
Natural gas (%)		7%	0%	-	-		
BF gas (%)		67%	74%	-			
Coke oven gas (%)		7%	26%			-	-
Heavy fuel oil (%)		19%					

* EC - electrochemical cell

*** A24 not operational

Signed on behalf of the Operator

Dated 24/04/15

Form I&S DCM Misc

RELEASES INTO AIR

Operational summary for quarter ending 31-Mar-15

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
4	07-Jan-15	08:35	5	Blow through / small burden slip	Ongoing investigations in to understanding process instability
4	09-Jan-15	09:03	3	Unstable gas flow resulting in burden slip	Ongoing investigations in to understanding process instability
4	11-Jan-15	03:00	5	Release of gas up the furnace walls	Ongoing investigations in to understanding process instability
4	14-Jan-15	03:33 09:10	9 10	Initial opening due to burden slip, then poor thermal condition of the furnace can be considered as a contributing factor to the difficult furnace recovery resulting in the second	Ongoing investigations in to understanding process instability and trajectory tests are to be carried out at the earliest opportunity
4	04-Feb-15	15:21	8	Difficult recovery following planned maintenance on the 02/02	Continue with on-going issue tree analysis to resolve furnace instability issues on BF4. Continue with on-going work with coal injection rate accuracy and coal lance availability. Consider changing the Paul Wurth rotating chute and carry out trajectory tests at earliest opportunity
4	05-Feb-15	14:45	7	Process instability following previous bleeder on 04/04	Continue with on-going issue tree analysis to resolve furnace instability issues on BF4. Continue with on-going work with coal injection rate accuracy and coal lance availability. Consider changing the Paul Wurth rotating chute and carry out trajectory tests at earliest opportunity
4	07-Feb-15	12:32	11	Process instability following previous bleeder on 04/04	Continue with on-going issue tree analysis to resolve furnace instability issues on BF4. Continue with on-going work with coal injection rate accuracy and coal lance availability. Consider changing the Paul Wurth rotating chute and carry out trajectory tests at earliest opportunity
4	10-Feb-15	05:36	7	Slag shelf formed during unplanned stop. Being brought back online resulted in instability and a blow through resulted in a sufficient pressure deviation from the high top pressure set-point to open the bleeder	Investigate cause of slag 'shelf' leading to a difficult recovery from unplanned shutdown. Continue with on-going work with coal injection rate accuracy.
4	14-Feb-15	08:12	8	Blow through due to low stable heat gain	Continue with on-going issue tree analysis to resolve furnace instability issues on BF4. Continue with on-going work with coal injection rate accuracy and coal lance availability. Consider changing the Paul Wurth rotating chute and carry out trajectory tests at earliest opportunity
4	16-Feb-15	03:46	23	Furnace slipped whilst blowing in resulting in gas surge through furnace.	Re-iterate the importance of following the blast furnace blow-in procedure to the shift teams.
5	21-Feb-15	20:42	21	Furnace process instability due to a difficult furnace re-start was the root cause of the bleeder opening	Re-introduce acid pellets to the burden as soon as they are available and increase the sinter CaO/SiO2 ratio.
4	25-Feb-15	16:52	9	Process instability was the root cause of the bleeder opening	Continue with on-going issue tree analysis to resolve furnace instability issues on BF4. Continue with on-going work with coal injection rate accuracy and coal lance availability. Consider changing the Paul Wurth rotating chute and carry out trajectory tests at earliest opportunity
4	25-Feb-15	19:37	7	Process instability for a number of days due to only using east tap hole.	Continue with on-going issue tree analysis to resolve furnace instability issues on BF4. Continue with on-going work with coal injection rate accuracy and coal lance availability. Consider changing the Paul Wurth rotating chute during next planned maintenance. Develop hearth liquid level model.
4	09-Mar-15	04:00	7	BF4 furnace top bleeder valves opened as a result of process instability (activation of heat gain) following a failure to plug the South taphole.	Increase sinter C/S ratio with move to acid pellets to reduce sinter RDI and minimise effects on heat gain. Change Paul Wurth chute during next stop.
Total BF4			100		
Total BF5			21		

Liquid Iron Plating Operations (Iron Plating Pit)			
Date	Time	Tonnes	Reason
31/03/15	15:01	218	Metallurgy Reasons
31/03/15	06:05	294	Metallurgy Reasons
31/03/15	05:22	234	Metallurgy Reasons
30/03/15	09:53	297	Metallurgy Reasons
30/03/15	08:52	208	Metallurgy Reasons
30/03/15	08:19	218	Metallurgy Reasons
30/03/15	07:30	268	Metallurgy Reasons
30/03/15	06:42	228	Metallurgy Reasons
30/03/15	05:49	240	Metallurgy Reasons
30/03/15	00:26	161	Metallurgy Reasons
30/03/15	00:04	218	Metallurgy Reasons
29/03/15	18:49	273	Metallurgy Reasons
29/03/15	17:49	228	Metallurgy Reasons
28/03/15	17:14	219	Metallurgy Reasons
28/03/15	16:48	217	Metallurgy Reasons
Total		3521	

Signed on behalf of the Operator 

Dated 27/04/15

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-15

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
27/03/15	04:37	206	Metallurgy Reasons
27/03/15	03:42	197	Metallurgy Reasons
27/03/15	00:26	243	Metallurgy Reasons
26/03/15	16:16	268	Metallurgy Reasons
26/03/15	15:07	247	Metallurgy Reasons
25/03/15	03:22	228	Metallurgy Reasons
25/03/15	03:05	268	Metallurgy Reasons
24/03/15	15:15	228	Metallurgy Reasons
24/03/15	14:36	208	Metallurgy Reasons
20/03/15	22:48	184	Metallurgy Reasons
20/03/15	22:19	190	Metallurgy Reasons
20/03/15	11:59	180	Metallurgy Reasons
20/03/15	11:59	228	Metallurgy Reasons
20/03/15	08:03	283	Metallurgy Reasons
20/03/15	07:17	161	Metallurgy Reasons
19/03/15	15:36	268	Metallurgy Reasons
19/03/15	15:20	237	Metallurgy Reasons
19/03/15	12:36	228	Metallurgy Reasons
19/03/15	12:15	218	Metallurgy Reasons
18/03/15	04:07	228	Metallurgy Reasons
18/03/15	03:51	217	Metallurgy Reasons
17/03/15	11:50	268	Metallurgy Reasons
17/03/15	11:46	209	Metallurgy Reasons
16/03/15	21:58	218	Metallurgy Reasons
16/03/15	21:29	256	Metallurgy Reasons
16/03/15	16:30	209	Metallurgy Reasons
16/03/15	15:47	282	Metallurgy Reasons
13/03/15	07:19	237	Metallurgy Reasons
13/03/15	06:53	184	Metallurgy Reasons
13/03/15	06:09	294	Metallurgy Reasons
12/03/15	15:48	256	Metallurgy Reasons
12/03/15	15:26	174	Metallurgy Reasons
12/03/15	05:48	243	Metallurgy Reasons
12/03/15	05:05	190	Metallurgy Reasons
10/03/15	22:14	209	Metallurgy Reasons
10/03/15	21:28	200	Metallurgy Reasons
10/03/15	14:32	180	Metallurgy Reasons
10/03/15	13:55	256	Metallurgy Reasons
10/03/15	13:27	184	Metallurgy Reasons
10/03/15	12:50	222	Metallurgy Reasons
Total		222	

Signed on behalf of the Operator

Dated 24/04/15

Form I&S Operational 1

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-15

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
10/03/15	11:46	274	Metallurgy Reasons
10/03/15	11:35	247	Metallurgy Reasons
08/03/15	06:55	294	Metallurgy Reasons
08/03/15	05:58	161	Metallurgy Reasons
08/03/15	03:34	228	Metallurgy Reasons
07/03/15	22:47	209	Metallurgy Reasons
07/03/15	03:32	310	Metallurgy Reasons
07/03/15	03:17	228	Metallurgy Reasons
07/03/15	02:34	240	Metallurgy Reasons
07/03/15	00:49	278	Metallurgy Reasons
06/03/15	23:56	247	Metallurgy Reasons
06/03/15	07:00	207	Metallurgy Reasons
05/03/15	12:04	294	Metallurgy Reasons
04/03/15	20:21	190	Metallurgy Reasons
04/03/15	19:22	161	Metallurgy Reasons
03/03/15	12:13	240	Metallurgy Reasons
03/03/15	11:58	257	Metallurgy Reasons
25/02/15	13:16	228	Metallurgy Reasons
12/02/15	13:03	218	Metallurgy Reasons
10/02/15	06:09	254	Metallurgy Reasons
07/02/15	12:07	228	Metallurgy Reasons
07/02/15	11:32	285	Metallurgy Reasons
07/02/15	10:53	190	Metallurgy Reasons
07/02/15	09:45	190	Metallurgy Reasons
07/02/15	08:52	161	Metallurgy Reasons
07/02/15	08:18	228	Metallurgy Reasons
06/02/15	06:44	228	Metallurgy Reasons
06/02/15	06:26	285	Metallurgy Reasons
06/02/15	02:59	216	Metallurgy Reasons
06/02/15	02:35	209	Metallurgy Reasons
02/02/15	19:36	230	Metallurgy Reasons
02/02/15	19:14	190	Metallurgy Reasons
02/02/15	14:59	228	Metallurgy Reasons
02/02/15	13:37	180	Metallurgy Reasons
02/02/15	11:48	295	Metallurgy Reasons
02/02/15	06:37	180	Metallurgy Reasons
Total		8288	

Signed on behalf of the Operator

Dated 24/04/15

Form I&S Operational 1

Operational summary for quarter ending 31-Mar-15

Release Points: Iron plating continued

Form I&S Operational 1

RELEASES INTO AIR

Operational summary for quarter ending 31-Mar-15

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	3.2	2.8	0.1	4.0	2.7	0.2	3.0	100%	100%
	Feb		3.6	2.9	0.2	3.9	2.7	0.2	3.1	100%	100%
	Mar		3.5	0.0	0.6	4.0	2.7	0.2	3.1	100%	97%
A8B	Jan	15	7.2	6.6	0.2	7.6	6.5	0.2	6.5	100%	100%
	Feb		7.6	6.8	0.2	7.7	6.7	0.2	7.1	100%	100%
	Mar		7.0	0.0	1.2	7.3	6.4	0.1	6.6	100%	100%
A9	Jan	25	4.8	0.0	1.4	10.7	0.0	1.8	0.5	100%	10%
	Feb		4.8	1.0	1.0	9.2	0.0	1.6	3.2	100%	100%
	Mar		12.6	0.0	2.9	21.9	0.0	3.6	4.4	100%	100%
A2	Jan	50	41.2	18.9	4.9	65.0	0.0	7.8	29.3	100%	100%
	Feb		38.3	0.0	9.4	76.7	0.0	10.8	22.6	100%	96%
	Mar		34.7	0.0	9.0	64.4	0.0	10.4	21.8	100%	94%
A10	Jan	50	0.8	0.0	0.2	13.4	0.1	2.8	0.3	100%	100%
	Feb		0.6	0.0	0.1	8.5	0.1	1.5	0.2	100%	100%
	Mar		0.6	0.0	0.1	8.5	0.1	1.5	0.2	100%	100%
A14	Jan	50	0.8	0.0	0.2	2.1	0.2	0.6	0.2	100%	100%
	Feb		3.3	0.0	1.0	11.5	0.2	2.4	1.3	100%	100%
	Mar		3.3	0.0	1.0	11.5	0.2	2.4	1.3	100%	100%
A15	Jan	50	2.3	0.1	0.4	19.7	0.2	4.0	0.6	100%	100%
	Feb		6.4	0.0	1.8	29.8	0.1	7.8	1.1	100%	100%
	Mar		6.4	0.0	1.8	29.8	0.1	7.8	1.1	100%	100%
A16	Jan	50	4.7	0.8	0.8	14.7	0.9	2.2	3.3	100%	100%
	Feb		9.2	2.2	2.1	19.9	2.7	4.2	5.3	100%	100%
	Mar		9.2	2.2	2.1	19.9	2.7	4.2	5.3	100%	100%

Signed on behalf of the Operator

Dated 24/04/15

Form I&S CEMS Parts 1 & 2

RELEASES INTO AIR

Operational summary for quarter ending 31-Mar-15

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)		
01-Jan-15	10:21	28m	Unplanned	delay for pallet change (wheel off)
01-Jan-15	13:53	1h 25m	Unplanned	delay to faultfind and repair damaged cable on 1026
05-Jan-15	10:20	32m	Unplanned	south wheel missing pallet 125.
05-Jan-15	16:50	1h 38m	Unplanned	Load management period called.
06-Jan-15	09:01	2h 37m	Unplanned	iFix communication fault. Plant stopped at 09.01 to 09.08 due to a line fault to the iFix pc's. (Hood had tripped but plant continued to run.). Plant run to 09.20 then fault finding on issue affecting strand group control. Plant finally away properly @ 1
06-Jan-15	16:52	1h 26m	Unplanned	load management called no11.
07-Jan-15	08:43	24m	Unplanned	Hole in pallet No 76 off and pallet with no number on
07-Jan-15	11:18	33m	Unplanned	Issues with lumps through raw mix hopper, had to empty hopper to dislodge lump. on start up couldn't get 1006 to come in, fault with fuse.
08-Jan-15	04:58	13h 39m	Planned	Planned Maintenance
09-Jan-15	04:04	30m	Unplanned	missing grate bars causing hole. pallet *** on pallet *** off
09-Jan-15	05:56	24m	Unplanned	pallet change for hole
13-Jan-15	16:50	1h 21m	Unplanned	Load Management
14-Jan-15	16:52	1h 21m	Unplanned	L/M from 17:00hrs /18:00hrs
15-Jan-15	04:00	1h 33m	Unplanned	fault traced to cable damage on the armour cable feeding the underspeed
16-Jan-15	10:46	24m	Unplanned	1027 tail end buried due to 888 tracking issues.
19-Jan-15	13:05	3h 45m	Unplanned	Requirement stop taken due to HiLine bunker levels and BF outage. No 9 North wrap changed, 888 rollers and cleaning, cold screens inspections, 1034 side skirts, 710 spring change,
19-Jan-15	16:50	2h 1m	Unplanned	Load Management
20-Jan-15	16:50	1h 25m	Unplanned	1004/1005 roller maintenance, 1024 screen being brought down, 1062 head chute cleaning, 889 trays being cleaned and No3 limestone weigh hopper measure and renew side skirts
20-Jan-15	18:24	21m	Unplanned	problems starting WGF's after load management
20-Jan-15	21:45	1h 40m	Unplanned	Underspeed and underspeed cable damage
21-Jan-15	09:30	54m	Unplanned	stringer found on conveyor needed removing and also deadweight drum and bearings built up with stringers.
21-Jan-15	15:57	33m	Unplanned	Bearing u/s on pallet 94 changed with pallet 52
21-Jan-15	16:50	1h 30m	Unplanned	Load management
22-Jan-15	16:48	1h 27m	Unplanned	Load Management from 16:48hrs /18:15hrs
23-Jan-15	12:22	7h 32m	Unplanned	889 Con belt and motor failure resulted in loss of ore to plant from 12:22hrs
26-Jan-15	10:05	39m	Unplanned	Pallet change for hole, during delay, inspections carried out on 1005 motor.
26-Jan-15	11:57	11h 38m	Planned	1005 motor failure, stop taken to replace motor.
26-Jan-15	23:46	1h 38m	Unplanned	1003 buried several times, fuses also blown. This caused by spillage feeders u/s.
27-Jan-15	03:58	4h 58m	Unplanned	1026 motor failure
28-Jan-15	14:46	1h 4m	Unplanned	1026 motor very noisy and vibrating, stopped to check coupling and alignment found motor misaligned, realigned motor and packed bibi coupling with grease. Vibrations and noise decreased.
29-Jan-15	01:51	23m	Unplanned	delay to remove large mixer lump from 1004
31-Jan-15	02:31	41m	Unplanned	dual pallet change No68 off, 43 on and 131 off, 8 on
02-Feb-15	16:50	1h 29m	Unplanned	load man.
03-Feb-15	08:41	8h 39m	Unplanned	BF requirements
03-Feb-15	17:20	1h 40m	Unplanned	Load Management
04-Feb-15	17:20	1h 23m	Unplanned	Load Management
03-Feb-15	19:00	39m	Unplanned	Continuation of requirement stop after load management
09-Feb-15	11:00	7h 10m	Unplanned	Requirement stop taken to carry out cooler improvements including support rail then modifying de-dust canopy over dip rail into cooler.
10-Feb-15	11:58	1h 2m	Unplanned	1 hour stop to investigate suspected arcing in panel in strand control
13-Feb-15	11:50	30m	Unplanned	UPS system failed, effecting iFix and plant operations. Strand stopped and monitors failed. C&P and day elec attended to reset.

Signed on behalf of the Operator

Dated 24/04/15

Form Sinter Operational

RELEASES INTO AIR

Form Sinter Operational Cont.

Operational summary for quarter ending 31-Mar-15

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)		
14-Feb-15	20:14	34m	Unplanned	opportunity stop taken to repace shaft on strand drive
17-Feb-15	10:55	2h 0m	Unplanned	Requirement stop due to No 5 BF off.
18-Feb-15	14:36	36m	Unplanned	North trailing Wheel off pallet. 145 off 68 on.
19-Feb-15	16:48	54m	Unplanned	Requirement stop taken to carry out repairs to 1025/1026 chute due to hiline bunker levels and system availability
19-Feb-15	22:46	25m	Unplanned	Hood tripped. Lost 3 burners. then on restart, slam shut valve activated.
20-Feb-15	06:58	42m	Unplanned	build up of material acting as a brake and required cleaning
20-Feb-15	12:58	29m	Unplanned	Requirement stop taken due to hiline system outage, pallet changed and rollers replaced on 1022.
22-Feb-15	09:55	24m	Unplanned	Hole in the south side of pallet 52 changed with pallet 53
22-Feb-15	13:58	22m	Unplanned	Hole in the south side of pallet 128 changed with pallet No10
22-Feb-15	15:26	3h 49m	Unplanned	Opportunity stop to pick up some small defects after furnace demand reduced
23-Feb-15	09:37	6h 49m	Unplanned	Mixer south west suport roller u/s
24-Feb-15	04:54	18h 27m	Planned	Planned Maintenance
25-Feb-15	00:22	56m	Unplanned	Stopped to sinter through after fillingthe strand
25-Feb-15	03:08	59m	Unplanned	Stopped plant before breaching, light intensity checked which was out by quite a bit.
25-Feb-15	04:58	23m	Unplanned	stopped to check mixer, knocking noise found which looks to be coming from girth ring coming in to contact with top hat guard
25-Feb-15	09:13	1h 6m	Unplanned	Chute blocked
25-Feb-15	10:39	32m	Unplanned	Pallet change
26-Feb-15	09:44	22m	Unplanned	Pallet change
26-Feb-15	14:56	1h 3m	Unplanned	1005 bend drum weld repairs. 1034 geaqrbox oil replaced.
27-Feb-15	19:55	3h 20m	Unplanned	Three cooler car wheels dismounted from track on outer rail at No3 cooling fan area, cars 11 12 13
28-Feb-15	00:40	2h 47m	Unplanned	Three cooler car wheels dismounted from track on outer rail at No3 cooling fan area, cars 11 12 13
28-Feb-15	04:19	1h 52m	Unplanned	Three cooler car wheels dismounted from track on outer rail at No1 cooling fan area, cars 11 12 13
28-Feb-15	06:46	1h 25m	Unplanned	cooler derailed
03-Mar-15	13:28	6h 36m	Unplanned	Cooler 13/14 off tracks
03-Mar-15	08:35	25m	Unplanned	E-stop activated interserve cleaning at head end
05-Mar-15	16:43	41m	Unplanned	Cooler rail repairs
07-Mar-15	05:55	54m	Unplanned	delay to sinter through due to lumps un roll feeder, but hood failed to relight due to plc fault, and required reset.
08-Mar-15	02:00	55m	Unplanned	Pallet change 38on 114off and plc failures on restart.
08-Mar-15	05:25	22m	Unplanned	PLC fault, lost minimum suction
11-Mar-15	03:40	18h 40m	Planned	Planned maintenance to change 1008 feeder
11-Mar-15	23:20	3h 45m	Planned	Continuation of planned maintenance stop.
14-Mar-15	22:57	1h 13m	Unplanned	1028 conveyor unable to take feed, needed some tension
14-Mar-15	00:35	25m	Unplanned	Blockage of chute with scrap, grate bars and compacted material.
15-Mar-15	23:39	1h 2m	Unplanned	belt tripped after restart causing build-up in sideskirts frm 1025. belt dug off several times.
17-Mar-15	23:23	22m	Unplanned	mixer lumps hit limit
20-Mar-15	01:56	52m	Unplanned	Pallet change carried out. Also patch welded onto Mixer hole. 128 off - 69c on
21-Mar-15	01:01	4h 34m	Unplanned	Cooler Stopped. Tray 13 hard over and jammed against south drive wheel
21-Mar-15	18:53	1h 10m	Unplanned	Cooler on stop Assistance required from Crane, Tension applied to south drive.Remaining Grease on drive ring removed

Signed on behalf of the Operator

Dated 24/04/15



Form Sinter Operational

Form Sinter Operational Cont.

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

Signed on behalf of the operator
Dated: 24-Apr-15

[Handwritten signature]

RELEASES INTO AIR

Operational summary for quarter ending 31-Mar-15

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	50 Hourly mean	*								
	Feb										
	Mar		7.6	1.1	1.7	41.7	1.2	10.3	3.3	100%	100%
A63*	Jan	25 Hourly mean	*								
	Feb										
	Mar										

*A63 currently non-operational, see NRW email/ Subject: Permit BL7108 - Emissions into Air Monitoring/ Sent: 27/01/2014.

*A10 currently non-operational, see NRW email/ Subject: Permit BL7108 - Emissions into Air Monitoring/ Sent: 27/01/2014.

Signed on behalf of the Operator

Dated 24/04/15

Form I&S CEMS Part 3

31-Mar-15

Permit: BL7108 / RP3730BV

Ship Discharge Information				
Ship	Time	Date	Duration (hh:mm)	Cargo
MV Ziemia Cieszyńska	16:45	02-Jan-15	12:00	Coke Breeze
MV Star Mega	20:05	05-Jan-15	48:35	Pellet
MV Berge Yotei	09:32	08-Jan-15	53:43	Pellet
MV Medi Baltimore	00:00	11-Jan-15	44:20	Coke
MV Newcastle Max	07:30	20-Jan-15	21:50	Fines
MV Zhong Xin Pearl	08:52	23-Jan-15	44:08	Coal
MV Jean L.D	12:35	27-Jan-15	20:25	Fines
MV Hermes	14:30	29-Jan-15	55:38	Coal
MV Tonic Sea	06:43	03-Feb-15	33:03	Lump Ore
MV Berge Arctic	08:00	05-Feb-15	18:50	Pellet
MV Newcastle Max	08:37	06-Feb-15	38:33	Coal
MV Berge Atlantic	09:52	08-Feb-15	38:58	Coal
MV CMB Sakura	15:25	15-Feb-15	44:45	Coke
MV Kumiai Shangnang	17:45	17-Feb-15	32:32	Iron Ore Fines
MV Berlin	08:25	19-Feb-15	38:10	Coke
MV Nord Neptune	09:25	21-Feb-15	29:20	Fines
MV Wu Zhu Hai	09:00	22-Feb-15	23:00	Coal
MV UBC Oristano	11:45	25-Feb-15	53:25	Coal
MV SKS Tweed	23:15	27-Feb-15	28:50	Pellet
MV Mineral Noble	17:15	01-Mar-15	48:45	Pellet
MV Berge Arctic	06:50	04-Mar-15	54:55	Pellet
MV Ultra Tiger	19:25	06-Mar-15	17:30	Coal
MV Cape Mathilde	21:26	09-Mar-15	40:50	Iron Ore Fines
M V Anangel Vigour	10:40	11-Mar-15	34:35	Fines
MV Mineral Hope	05:10	18-Mar-15	69:50	Coal
MV Bulk Brasil	07:40	21-Mar-15	44:55	Coke
MV Berge Atlantic	10:04	23-Mar-15	25:46	Pellet
MV Star Borealis	22:20	24-Mar-15	55:00	Pellet
Month	No.days rainfall ≤3 mm/day	No.days bowser used	No.days latex used	Volume latex used (m3/day) Maximum
Jan	13	As required	On discharge	-
Feb	19	As required	On discharge	-
Mar	20	As required	On discharge	-

Form Burdening 1

RELEASES INTO AIR

Operational summary for quarter ending

31-Mar-15

Operator: Port Talbot Works

Location: Port Talbot Works

Permit: BL7108 / RP3730BV

	NOx (tonnes)	Lead (tonnes)	PM10 (tonnes)	CO2 (k tonnes)
Morfa	56			
Iron & Steel	685	13.9	594	1475
Total	741	13.9	594	1475

Signed on behalf of the Operator



Dated 24/04/15

Form KPI