

RELEASES INTO AIR

Operational Summary for the month Jun-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)								
					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-15	74	100%	100%	100%	0.028	0.01	12.47	96	137	92	74	17	221	96	68	32
02-Jun-15	76	100%	100%	100%	0.029	0.018	12.65	66	147	72	48	24	130	66	43	22
03-Jun-15	76	100%	100%	100%	0.029	0.018	12.65	70	96	70	48	13	144	70	34	22
04-Jun-15	67	100%	100%	100%	0.029	0.018	12.65	82	133	83	61	16	196	82	26	33
05-Jun-15	65	100%	100%	100%	0.029	0.018	12.65	75	109	76	58	15	143	75	16	26
06-Jun-15	71	100%	100%	100%	0.029	0.018	12.65	69	118	67	47	21	242	69	33	41
07-Jun-15	73	100%	100%	100%	0.036	0.018	10.18	57	91	58	40	14	134	57	36	20
08-Jun-15	74	100%	100%	94%	0.036	0.018	10.18	63	79	61	48	8	91	63	44	15
09-Jun-15	74	100%	100%	42%	0.036	0.018	10.18	95	127	94	73	14	140	95	67	21
10-Jun-15	74	100%	100%	59%	0.036	0.018	10.18	77	103	76	50	17	140	77	49	24
11-Jun-15	76	100%	100%	100%	0.038	0.020	11.50	82	119	85	64	14	120	82	58	20
12-Jun-15	60	100%	100%	100%	0.038	0.020	11.50	76	144	77	31	25	247	76	0	50
13-Jun-15	77	100%	100%	100%	0.038	0.020	11.50	58	74	57	37	11	94	58	35	16
14-Jun-15	78	100%	100%	100%	0.038	0.020	11.50	59	71	59	45	7	89	59	40	13
15-Jun-15	63	100%	100%	100%	0.038	0.020	11.50	88	149	88	19	30	256	88	0	54
16-Jun-15	41	100%	100%	100%	0.039	0.060	12.50	58	181	59	0	52	291	58	0	71
17-Jun-15	59	100%	100%	100%	0.039	0.060	12.50	45	67	44	3	18	119	45	0	28
18-Jun-15	73	100%	100%	100%	0.039	0.060	12.50	56	95	58	31	17	114	56	26	23
19-Jun-15	76	100%	100%	100%	0.039	0.060	12.50	65	95	61	43	13	121	65	39	20
20-Jun-15	69	100%	100%	100%	0.04	0.030	10.91	61	119	66	33	25	152	61	1	30
21-Jun-15	70	100%	100%	53%	0.04	0.030	10.91	56	78	54	41	9	104	56	39	18
22-Jun-15	73	100%	100%	88%	0.04	0.030	10.91	68	96	68	45	13	131	68	41	19
23-Jun-15	49	100%	100%	60%	0.04	0.030	10.91	48	104	46	0	31	142	48	0	40
24-Jun-15	76	100%	100%	100%	0.038	0.024	12.78	68	95	69	52	14	114	68	45	20
25-Jun-15	72	100%	100%	100%	0.038	0.024	12.78	85	126	82	57	18	161	85	36	28
26-Jun-15	73	100%	100%	100%	0.038	0.024	12.78	76	101	76	52	14	129	76	45	19
27-Jun-15	76	100%	100%	100%	0.038	0.024	12.78	89	143	90	67	22	221	89	63	34
28-Jun-15	70	100%	100%	100%	0.039	0.02	11.28	87	108	88	64	12	141	87	30	24
29-Jun-15	74	100%	100%	100%	0.039	0.02	11.28	81	98	80	61	12	147	81	55	21
30-Jun-15	73	100%	100%	100%	0.039	0.02	11.28	97	111	99	82	8	139	97	65	18
Month ave	-	100%	100%	93%	0.04	0.03	11.7	72	-	72	-	-	-	72	-	-
Month max.	78	-	-	-	0.04	0.06	12.8	97	181	-	-	-	291	-	-	-
Limit	-	-	-	-	0.06	-	-	115	200	-	-	-	-	-	-	-

Signed on behalf of the Operator



Dated 27/07/2015

Form Sinter CEMS

RELEASES TO AIR

Operational summary for quarter ending 30-Jun-14

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	26301		
	Month 2	34723		
	Month 3	43293		
A13A BOS convertor 2 gas flare	Month 1	52601		
	Month 2	69447		
	Month 3	86585		
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		285	
	Month 2		183	
	Month 3		270	
A33B Blast furnace gas main number 5 bleeder	Month 1		349	
	Month 2		118	
	Month 3		175	
A37 Coke oven gas triple flare	Month 1	49001		
	Month 2	201138		
	Month 3	108239		
Blast furnaces 4 and 5	Month 1			1424897
	Month 2			1809327
	Month 3			1702995
Coke ovens	Month 1			496574
	Month 2			545332
	Month 3			525198
BOS Plant	Month 1			185351
	Month 2			242802
	Month 3			218066

Signed on behalf of the Operator

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Dated

27/07/15

Form Installation gas

WASTE PRODUCTION

Operational summary for quarter ending 30-Jun-14

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	42876	4956					
	May	65423	7202					
	Jun	36572	4721					
Iron and steel installation	Apr			0	161			
	May			4	147			
	Jun			8	188			
BF4 tapholes	Apr					45104		
	May					40782		
	Jun					41862		
BF5 tapholes	Apr					45534		
	May					46972		
	Jun					34865		
BF5	Apr							0
	May							0
	Jun							0
Coke ovens	Apr						143	**
	May						119	**
	Jun						164	**

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

** WID compliant Oil.

Signed on behalf of the Operator 

Dated 27/07/15

Form Waste 1

RELEASES INTO AIR

Operational summary for quarter ending 30-Jun-14

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)	2184	1370	2153	2182	2184	2184	2184
Mean load (%MCR)	65.2	44.3	51.5	96.8	91.8	58.2	68.9
Mean flue gas flow (Nm3/hr)	122449	68145	59550	225073	248069	163435	190594
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)	95	95	95	95	95	95	
Max. asphaltene content (g/Kg)	50	50	50	50	50	50	
Ave.%wt Sulphur	0.76	0.76	0.76	0.76	0.76	0.76	
NOx factor	0.1	0.1	0.1	0.1	0.1	0.1	
Coke Oven Gas							
Average net CV (GJ/te)	42.5	42.5	42.5	42.5	42.5	42.5	
Sulphur content (g/Nm3)	2.90	2.90	2.90	2.90	2.90	2.90	
NOx factor	0.04	0.04	0.04	0.04	0.04	0.04	
Blast Furnace Gas							
Average net CV (GJ/te)	2.55	2.55	2.55	2.55	2.55	2.55	2.55
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/te)	51.5	51.5	51.5	51.5	51.5	51.5	51.5
NOx factor	0.04	0.04	0.04	0.04	0.04	0.04	0.04

Signed on behalf of the Operator 

Dated 27/07/15

RELEASES INTO AIR

Operational summary for quarter ending 30-Jun-14

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

Permit: BL7108

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

OXIDES OF NITROGEN - NOx (DISCONTINUOUS MONITORING)						
Release Point	A50A&B Service 4&5	A51 A5	A52A No.6	A52B No.7	A53 Mitchell	A62 No.3
Time and date of sampling	20-May-15 10:48	28-Apr-15 11:25	- -	- -	16-Apr-15 11:14	- -
Flowrate (Nm3/hr)	182034	77614	-	-	123447	-
NOx measured conc. (mg/Nm3)	108	14	-	-	41	-
NOx limit (mg/NM3)	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 -
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	238		-	-		-
Fuel usages over the sampling period						
Natural gas (%)	57%	3%	-	-	3%	-
BF gas (%)	42%	97%	-	-	92%	-
Coke oven gas (%)	1%	6%	-	-	6%	
Heavy fuel oil (%)	0%	0%	-	-	0%	

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

* EC - electrochemical cell

Signed on behalf of the Operator 

Dated 27/07/15

RELEASES INTO AIR

Operational summary for quarter ending

30-Jun-14

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

Permit: BL7108 / NP3938GZ

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

SULPHUR DIOXIDE - SO₂ (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	20-May-15 10:48	28-Apr-15 11:25	- -	- -	16-Apr-15 11:14	- -
Flowrate (Nm ³ /hr)	182034	77614	-	-	123447	-
SO ₂ measured conc. (mg/Nm ³)	198	36	-	-	95	-
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	238		-	-		-
Fuel usages over the sampling period						
Natural gas (%)	57%	3%	-	-	3%	-
BF gas (%)	42%	97%	-	-	92%	-
Coke oven gas (%)	1%	6%	-	-	6%	
Heavy fuel oil (%)	0%	0%	-	-	0%	

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

* EC - electrochemical cell

Signed on behalf of the Operator 

Dated 27/07/15

Form LCPD DCM SO₂

RELEASES INTO AIR

Operational summary for quarter ending 30-Jun-14

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	Apr	0	48836	53437	1514		103787
	May	0	47561	48494	2180		98235
	Jun	0	40544	47311	2414		90269
A50B Service Boiler 5	Apr	0	2650	4923	0		7573
	May	0	26885	35667	0		62552
	Jun	0	15054	39374	0		54428
A51 Boiler A5	Apr	1335	9565	52753	1037	343	65033
	May	0	8448	57858	847	1	67154
	Jun	3	4963	59963	2178	285	67392
A52A Boiler 6	Apr	4813	65326	204482	35675	22923	333219
	May	40	63148	239868	8552	30228	341836
	Jun	1685	68948	233548	19015	20729	343924
A52B Boiler 7	Apr	7848	45078	203886	37457	22855	317123
	May	5386	49235	236481	11349	29802	332254
	Jun	0	46439	233277	17529	20543	317788
A53 Mitchell	Apr	697	8654	102153	4498		116001
	May	46	9334	114597	3175		127152
	Jun	24	8439	116110	3054		127627
A62 Boiler 3	Apr			154079	11155	925	166159
	May			167532	6185	3	173721
	Jun			190940	4634	1015	196589
Total	Apr	14692	180109	775712	91336	47046	1108895
	May	5472	204612	900497	32289	60034	1202904
	Jun	1711	184387	920524	48824	42572	1198017

Signed on behalf of the Operator 

Dated 27/07/15

Form LCPD Fuels

RELEASES INTO AIR

Operational summary for quarter ending 30-Jun-14

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	6.7	151.1	07/04/15 15:00	0.5	20.6	100%
	May	2.0	9.6	13/05/15 17:00	0.5	1.4	100%
	Jun	2.5	16.6	15/06/15 20:00	0.7	1.7	100%
A51 Boiler A5	Apr	3.9	144.0	07/04/15 14:00	0.3	10.3	100%
	May	0.7	6.1	09/05/15 12:00	0.4	0.5	100%
	Jun	0.7	18.9	16/06/15 09:00	0.3	1.1	100%
A52A Boiler 6	Apr	3.1	23.6	07/04/15 19:00	1.6	4.0	100%
	May	2.1	8.6	27/05/15 12:00	1.9	0.3	100%
	Jun	1.7	23.0	26/06/15 15:00	0.6	1.5	100%
A52B Boiler 7	Apr	1.6	19.0	07/04/15 08:00	0.5	2.7	100%
	May	1.2	77.4	27/05/15 13:00	0.6	3.7	100%
	Jun	0.5	2.5	26/06/15 15:00	0.0	0.3	100%
A53 Mitchell	Apr	3.5	26.4	08/04/15 15:00	1.4	2.5	100%
	May	3.2	16.5	17/05/15 09:00	1.5	0.8	100%
	Jun	2.7	6.8	11/06/15 21:00	0.4	0.6	100%

Signed on behalf of the Operator 

Dated 27/07/15

Form LCPD CEM Parts

RELEASES INTO AIR

Operational summary for quarter ending

30-Jun-14

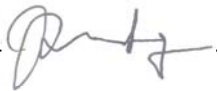
Operator: Tata Steel UK Ltd

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	130.2	347.8	08/04/2015 17:00	23.0	57.3	100%
	May	135.0	308.5	13/05/2015 23:00	0.1	42.3	100%
	Jun	150.1	292.4	25/06/2015 16:00	0.0	56.8	99%
A52B Boiler 7	Apr	158.0	548.0	08/04/2015 10:00	20.7	91.2	100%
	May	158.7	399.0	27/05/2015 13:00	27.7	44.9	100%
	Jun	148.1	403.9	26/06/2015 15:00	0.3	54.0	100%
A50A & A50B Service Boilers	Apr	107.0	510.2	03/04/2015 21:00	8.5	97.1	100%
	May	133.3	660.7	14/05/2015 7:00	9.3	133.9	100%
	Jun	115.1	355.3	23/06/2015 5:00	8.4	74.1	100%
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	Apr	86.3	371.6	08/04/2015 9:00	1.5	64.0	100%
	May	83.5	351.9	01/05/2015 11:00	3.8	33.2	100%
	Jun	87.5	248.4	26/06/2015 15:00	0.0	40.8	99%
A52B Boiler 7	Apr	135.2	681.9	11/04/2015 10:00	6.1	113.6	100%
	May	126.7	748.6	27/05/2015 14:00	7.4	62.5	100%
	Jun	100.1	287.6	26/06/2015 15:00	3.5	47.5	100%
A50A & A50B Service Boilers	Apr	245.2	1064.4	08/04/2015 10:00	0.0	206.3	100%
	May	262.7	1045.5	13/05/2015 6:00	0.0	243.8	100%
	Jun	213.4	587.9	23/06/2015 17:00	0.0	114.8	100%

Signed on behalf of the Operator 

Dated 27/07/15

Form LCPD CEMS SO2 & NOx

RELEASES INTO AIR

Operational summary for quarter ending 30-Jun-14

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	Apr	9.8	3.0	07-Apr-15	0.0	2.2	100%
	May	5.7	2.8	24-May-15	1.7	1.1	85%
	Jun	2.7	1.3	01-Jun-15	0.0	0.8	100%
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	Apr	87.9	19.5	08-Apr-15	0.0	18.6	100%
	May	27.7	12.5	31-May-15	3.0	6.4	100%
	Jun	54.4	15.4	08-Jun-15	4.8	10.0	100%
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	Apr	145.2	41.4	12-Apr-15	0.0	30.5	100%
	May	65.1	34.0	14-May-15	13.9	9.6	100%
	Jun	43.2	33.5	10-Jun-15	19.2	6.8	100%

Signed on behalf of the Operator 

Dated 27/07/15

Form LCPD CEM A62

RELEASES INTO AIR

Operational summary for quarter ending 30-Jun-14

Operator: Tata Steel UK Ltd


Location: Port Talbot Works

Permit: BL7108

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

EMISSIONS TO AIR: CEM INVALIDATION LOG									
Date	Duration of invalid CEM records (hours)	Cumulative invalidated days (in the calendar year)							Comments
		A50	A51	A52A	A52B	A53	A62	TOTAL	
17-May-15	109						5		Pariculates
30-Jun-15	21			49 *					NOx & SO2

* Exceeds 10 day invalidation target. Notification issued.

Signed on behalf of the Operator 

Dated 27/07/15

RELEASES INTO AIR

Operational summary for quarter ending

30-Jun-14

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/Nm ³)	115	500	275	
Measured conc. according to condition 10.1.3b	61	443	224	6250
Measured oxygen content (%)	17.3	17.7	17.7	17.7
Measured conc. according to condition 10.1.3a (17%O ₂)	66	532	269	7500
Sampling method used	BS EN 13284	BS 6069	ISO 10849	BS ISO 12039
Analytical method used	Gravimetric	*EC	*EC	*EC
Date of sampling	01-Jun-15	01-Jun-15	01-Jun-15	01-Jun-15
Sample start time	10:35	09:30	09:30	09:30
Sample end time	12:35	10:30	10:30	10:30
Sample duration (mins)	120	60	60	60
Limit of detection	0.96	1.6	1.4	0.0
Continuous monitor result over the sampling period	72.6			
Process status at the time of sampling				
Mean sulphur content of sinter blend in use (%)	0.028	0.028	0.028	0.028
Reverts content of sinter blend in use (%)	12.5	12.5	12.5	12.5
Mean chloride content of sinter blend in use (%)	0.01	0.01	0.01	0.01
Throughput during sampling period (% of maximum)	74.1	74.1	74.1	74.1

* EC - electrochemical cell

Signed on behalf of the Operator



Dated

27/07/15

Form Sinter DCM 1

RELEASES INTO AIR

Operational summary for quarter ending

30-Jun-14

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	0.3
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	0.3
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	0.2
April	7.6	7.6	0.5	3.4	2.8	0.8	0.5	3.4	3.4	0.5	2.4	2.2	0.8	0.8	0.1	0.1	0.1	0.5	0.2	0.2	0.1
May	8.2	8.2	3.1	20.3	18.5	4.0	0.5	4.2	4.2	1.8	9.6	9.6	3.4	1.4	0.1	0.1	0.0	0.3	0.2	0.2	0.2
June	8.4	8.4	2.3	23.9	16.6	4.0	0.7	4.7	4.7	1.8	10.0	8.9	3.4	1.6	0.1	0.1	0.0	0.3	0.1	0.2	0.2
July																					
August																					
September																					
October																					
November																					
December																					
Totals	50	50	16	116	87	20	4	29	29	10	55	51	18	7	0.5	0.5	0.3	2.0	1.2	1.0	1.3
	342							198							7						
	Service	A5	Margam C	Mit	3	Service	A5	Mgm C	Mit	3	Service	A5	Mgm C	Mit	3						
Boiler Plant Totals	99	16	203	20	4	57	10	106	18	7	1	0	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 

Dated 27/07/15

Form LCPD Monthly 1

RELEASES INTO AIR

Operational summary for quarter ending 30-Jun-14

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	A31 ***	A32 ***	A34A	A34B	A39 #
Time and date of sampling	28-May-15 13:55	15-Mar-15 14:10	-	-	23-Jun-15 11:01	23-Jun-15 09:42	17-Feb-15 10:55
Flowrate (Nm3/hr)	253001	120106	-	-	230358	356944	55528
NOx measured conc.(mg/Nm3) **	58	15	-	-	997	345	20
Oxygen content (%)			-	-			
NOx limits (mg/Nm3)	145	145	475	475	1800	1800	115
Sampling method used	ISO 10849	ISO 10849	-	-	ISO 10849	ISO 10849	ISO 10849
Analytical method used	EC *	EC *	-	-	EC *	EC *	EC *
Continuous hourly monitoring result over the period							
Fuel usages over the sampling period							
Natural gas (%)	0%	0%	-	-	11%	100%	100%
BF gas (%)	67%	98%					0%
Coke oven gas (%)	6%	2%			89%	0%	
BOS Gas (%)	27%						

* EC - electrochemical cell

** 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 27/07/15

Form I&S DCM NOx

RELEASES INTO AIR

Operational summary for quarter ending

30-Jun-14

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	28-May-15 13:55	15-Mar-15 14:10	23-Jun-15 11:01	23-Jun-15 09:42	17-Feb-15 10:55
Flowrate (Nm3/hr)	253001	120106	230358	356944	55528
SO2 measured conc.(mg/Nm3)	142	80	560	0.3	0
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 (%)	0%	0%	11%	100%	100%
BF gas (%)	67%	98%			0%
Coke oven gas (%)	6%	2%	89%	0%	
BOS Gas (%)	27%				

* EC - electrochemical cell

A39 has a 6 monthly monitoring requirement

Signed on behalf of the Operator 

Dated 27/07/15

Form I&S DCM SO2

RELEASES INTO AIR

Operational summary for quarter ending

30-Jun-14

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

Permit: BL7108 / PP3738SQ

Release Points: A6, A7, A21, A22, A24, A39 & 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	-	28-May-15 11:24	15-Mar-15 14:20	17-Feb-15 10:55	-		
Flowrate (Nm3/hr)	-	253001	120106	10-Jan-52	-		
Measured conc.(mg/Nm3)	-	6856	6237	246	-		
Emission limits (mg/Nm3)	-				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 (%)		0%	0%	100%	-		
BF gas (%)		67%	98%	0%			
Coke oven gas (%)		6%	2%			-	-
Heavy fuel oil (%)		27%					

* EC - electrochemical cell

*A21/22 not sampled due to access issues - See email to NRW

Subject: Incomplete June Returns - Date: 23/07/2015

Signed on behalf of the Operator



Dated 27/07/15

Form I&S DCM Misc

RELEASES INTO AIR

Operational summary for quarter ending 30-Jun-14

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
23/06/15	02:06	199	Metallurgy Reasons
23/06/15	01:14	171	Metallurgy Reasons
22/06/15	16:38	273	Metallurgy Reasons
22/06/15	15:48	171	Metallurgy Reasons
22/06/15	12:00	274	Metallurgy Reasons
22/06/15	11:22	153	Metallurgy Reasons
21/06/15	02:15	294	Metallurgy Reasons
21/06/15	01:23	170	Metallurgy Reasons
18/06/15	19:40	208	Metallurgy Reasons
18/06/15	19:09	300	Metallurgy Reasons
18/06/15	02:53	208	Metallurgy Reasons
18/06/15	02:13	297	Metallurgy Reasons
17/06/15	18:16	283	Metallurgy Reasons
17/06/15	17:20	293	Metallurgy Reasons
17/06/15	03:49	256	Metallurgy Reasons
17/06/15	03:01	217	Metallurgy Reasons
16/06/15	09:48	256	Metallurgy Reasons
16/06/15	08:30	208	Metallurgy Reasons
16/06/15	05:55	256	Metallurgy Reasons
16/06/15	03:27	259	Metallurgy Reasons
16/06/15	00:03	282	Metallurgy Reasons
15/06/15	23:54	268	Metallurgy Reasons
15/06/15	16:35	256	Metallurgy Reasons
14/06/15	19:47	256	Metallurgy Reasons
12/06/15	02:06	184	Metallurgy Reasons
12/06/15	01:17	228	Metallurgy Reasons
11/06/15	15:13	268	Metallurgy Reasons
11/06/15	13:49	228	Metallurgy Reasons
11/06/15	13:01	270	Metallurgy Reasons
11/06/15	10:42	3	Metallurgy Reasons
11/06/15	06:39	199	Metallurgy Reasons
10/06/15	21:06	184	Metallurgy Reasons
10/06/15	19:48	259	Metallurgy Reasons
10/06/15	14:27	237	Metallurgy Reasons
10/06/15	13:49	161	Metallurgy Reasons
05/06/15	06:52	229	Metallurgy Reasons
05/06/15	06:16	190	Metallurgy Reasons
05/06/15	03:06	225	Metallurgy Reasons
05/06/15	02:25	184	Metallurgy Reasons
04/06/15	17:12	228	Metallurgy Reasons
Total		9085	

Signed on behalf of the Operator 

Dated 27/07/15

Form I&S Operational 1

RELEASES INTO AIR

Operational summary for quarter ending 30-Jun-14

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
04/06/15	16:31	218	Metallurgy Reasons
04/06/15	04:00	256	Metallurgy Reasons
16/06/15	00:03	282	Metallurgy Reasons
27/05/15	11:09	190	Metallurgy Reasons
26/05/15	21:01	180	Metallurgy Reasons
26/05/15	20:38	228	Metallurgy Reasons
26/05/15	18:43	283	Metallurgy Reasons
26/05/15	17:53	171	Metallurgy Reasons
26/05/15	09:55	247	Metallurgy Reasons
21/05/15	20:29	228	Metallurgy Reasons
20/05/15	17:15	228	Metallurgy Reasons
20/05/15	16:11	171	Metallurgy Reasons
20/05/15	14:10	247	Metallurgy Reasons
20/05/15	13:43	161	Metallurgy Reasons
06/05/15	17:44	208	Metallurgy Reasons
06/05/15	17:12	268	Metallurgy Reasons
05/05/15	14:03	268	Metallurgy Reasons
05/05/15	13:01	208	Metallurgy Reasons
27/04/15	04:59	180	Metallurgy Reasons
27/04/15	04:18	228	Metallurgy Reasons
23/04/15	20:12	161	Metallurgy Reasons
23/04/15	20:12	210	Metallurgy Reasons
23/04/15	13:41	228	Metallurgy Reasons
23/04/15	12:54	199	Metallurgy Reasons
21/04/15	15:08	161	Metallurgy Reasons
21/04/15	14:39	310	Metallurgy Reasons
21/04/15	14:38	282	Metallurgy Reasons
21/04/15	13:46	243	Metallurgy Reasons
21/04/15	10:32	190	Metallurgy Reasons
21/04/15	09:50	220	Metallurgy Reasons
21/04/15	07:28	204	Metallurgy Reasons
21/04/15	07:28	294	Metallurgy Reasons
20/04/15	10:21	216	Metallurgy Reasons
20/04/15	09:51	294	Metallurgy Reasons
20/04/15	08:34	278	Reduced Steel Output
20/04/15	07:41	228	Reduced Steel Output
Total		8168	

Signed on behalf of the Operator 

Dated 27/07/15

Form I&S Operational 1

RELEASES INTO AIR

Operational summary for quarter ending 30-Jun-14

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
17/04/15	22:54	228	Metallurgy Reasons
17/04/15	22:26	288	Metallurgy Reasons
17/04/15	21:32	293	Metallurgy Reasons
17/04/15	20:17	228	Metallurgy Reasons
17/04/15	19:23	219	Metallurgy Reasons
17/04/15	18:58	209	Metallurgy Reasons
14/04/15	18:36	190	Metallurgy Reasons
14/04/15	17:29	208	Metallurgy Reasons
14/04/15	01:22	228	Metallurgy Reasons
14/04/15	00:45	237	Metallurgy Reasons
13/04/15	17:32	208	Metallurgy Reasons
13/04/15	17:04	225	Metallurgy Reasons
13/04/15	15:43	256	Metallurgy Reasons
13/04/15	14:52	180	Metallurgy Reasons
13/04/15	14:51	228	Metallurgy Reasons
13/04/15	13:55	228	Metallurgy Reasons
13/04/15	07:16	228	Metallurgy Reasons
13/04/15	07:16	200	Metallurgy Reasons
13/04/15	03:46	268	Metallurgy Reasons
13/04/15	02:32	228	Metallurgy Reasons
12/04/15	15:38	228	Metallurgy Reasons
12/04/15	15:00	161	Metallurgy Reasons
08/04/15	17:57	200	Metallurgy Reasons
08/04/15	14:18	160	Metallurgy Reasons
08/04/15	14:18	152	Metallurgy Reasons
08/04/15	04:22	216	Metallurgy Reasons
08/04/15	01:33	237	Metallurgy Reasons
07/04/15	22:57	11	Metallurgy Reasons
07/04/15	11:38	59	Metallurgy Reasons
07/04/15	10:13	97	Metallurgy Reasons
07/04/15	08:49	57	Metallurgy Reasons
07/04/15	07:25	197	Metallurgy Reasons
07/04/15	05:28	207	Metallurgy Reasons
07/04/15	04:46	285	Metallurgy Reasons
06/04/15	14:17	228	Metallurgy Reasons
06/04/15	13:22	217	Metallurgy Reasons
Total		7289	

Signed on behalf of the Operator 

Dated 27/07/15

Form I&S Operational 1

RELEASES INTO AIR

Operational summary for quarter ending 30-Jun-14

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	3.6	3.0	0.1	4.4	2.9	0.2	3.3	100%	100%
	May		3.5	3.0	0.1	3.7	2.9	0.2	3.3	100%	100%
	Jun		3.5	3.2	0.1	4.1	2.9	0.1	3.3	100%	100%
A8B	Apr	15	9.9	6.1	0.7	20.3	5.8	1.1	6.5	100%	100%
	May		10.3	6.0	0.7	67.2	5.7	2.6	6.3	100%	100%
	Jun		6.1	5.4	0.2	6.1	5.3	0.2	5.7	100%	100%
A9	Apr	25	4.5	0.0	1.0	9.7	0.0	1.3	2.3	100%	100%
	May		3.5	0.8	0.7	7.4	0.0	1.1	2.5	100%	100%
	Jun		3.5	0.2	0.9	6.3	0.0	1.1	1.9	100%	100%
A2	Apr	50	44.7	1.9	11.2	111.6	0.0	16.6	25.8	100%	100%
	May		36.6	3.7	6.6	85.8	0.0	10.5	24.4	100%	100%
	Jun		34.3	9.5	6.2	57.4	0.0	8.0	23.4	100%	100%
A10	Apr	50	0.8	0.0	0.2	13.4	0.1	2.8	0.3	100%	100%
	May		0.6	0.0	0.1	8.5	0.1	1.5	0.2	100%	100%
	Jun		0.6	0.0	0.1	8.5	0.1	1.5	0.2	100%	100%
A14	Apr	50	0.8	0.0	0.2	2.1	0.2	0.6	0.2	100%	100%
	May		3.3	0.0	1.0	11.5	0.2	2.4	1.3	100%	100%
	Jun		3.3	0.0	1.0	11.5	0.2	2.4	1.3	100%	100%
A15	Apr	50	2.3	0.1	0.4	19.7	0.2	4.0	0.6	100%	100%
	May		6.4	0.0	1.8	29.8	0.1	7.8	1.1	100%	100%
	Jun		6.4	0.0	1.8	29.8	0.1	7.8	1.1	100%	100%
A16	Apr	50	4.7	0.8	0.8	14.7	0.9	2.2	3.3	100%	100%
	May		9.2	2.2	2.1	19.9	2.7	4.2	5.3	100%	100%
	Jun		9.2	2.2	2.1	19.9	2.7	4.2	5.3	100%	100%

Signed on behalf of the Operator 

Dated 27/07/15

RELEASES INTO AIR

Operational summary for quarter ending 30-Jun-14

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)		
01-Apr-15	01:40	43h 30m	Planned	Planned maintenance.
02-Apr-15	22:04	25m	Planned	Stop required to sinter through after restart from PM.
03-Apr-15	00:00	1h 15m	Planned	plant stop required due to high waste gas PCME readings after restart from PM.
03-Apr-15	17:18	54m	Unplanned	On stop to allow WG levels to settle.
04-Apr-15	12:16	1h 8m	Unplanned	1049 chain conveyor blocked
04-Apr-15	15:09	33m	Unplanned	00:00
07-Apr-15	03:44	21m	Unplanned	Pallet change No90 off No145 on
07-Apr-15	09:12	7h 53m	Unplanned	Requirement stop due to BF req. Both BF's off and stockpile full.
08-Apr-15	05:30	11h 52m	Unplanned	Both BF's off and stockpile full. Opportunity taken to repair 1023 screen
10-Apr-15	06:30	7h 57m	Unplanned	Requirement stop due to BF requirements No 5 BF off and stockpile full.
10-Apr-15	01:30	24m	Unplanned	Pallet change 01.30-01.54 59c-off 125-on
14-Apr-15	00:33	25m	Unplanned	Pallet change for hole, 149 on 66 off. 1006 also failed to start on start-up
14-Apr-15	09:10	1h 24m	Unplanned	1006 con tracked over tail end buried.
16-Apr-15	09:38	27m	Unplanned	trip cativated on 1027 (Jetting in area), 1026 tracking, along with 1024 reset required.
17-Apr-15	21:02	24m	Unplanned	Pallet change
20-Apr-15	10:58	36m	Unplanned	New return tracking roller fitted / damaged return roller replaced..
22-Apr-15	03:22	20h 38m	Planned	Emptying Raw mix Hopper and Sintering Through for PM.
22-Apr-15	02:28	42m	Planned	Plant stop 02:28hrs - 03:10hrs Waste gas 4 hrs limit high and removing damaged bed height prob
22-Apr-15	01:04	46m	Planned	Plant Stop 01:04hrs - 01:50hrs Sintering through
22-Apr-15	05:28	1h 18m	Unplanned	Plant stop 05:28hrs â€ Hood tripped, hood page showing all burners deselected and all valves closed.
27-Apr-15	10:13	28m	Unplanned	Pallet changed as leading wheel on pallet 133 missing (south), pallet 30 on.
28-Apr-15	00:05	4h 33m	Unplanned	top bend drum collapsed
28-Apr-15	19:46	23m	Unplanned	Pallet change 108 off 54 on. Pallet 108 removed as possible cause of several previous bent beam alarms.
01-May-15	01:20	1h 14m	Unplanned	Car 12 & car 13 derailed inbetween No3 & No4 cooling fans
02-May-15	12:23	5h 35m	Unplanned	Requirement stop taken as hi line full and stockpile full. During 1023 screen change.
04-May-15	05:31	2h 3m	Unplanned	conveyor stopped. elec investigating.
05-May-15	10:52	4h 18m	Unplanned	Opportunity Stop - Various jobs undertaken, mainly 1022 joint repair.
09-May-15	20:51	48m	Unplanned	While refitting displaced floor grids in the south blanking plate access slot pit, personnel needed to work in an area where there is a hole in the windmain. Opportunity stop taken to carry our work while stockpile full. Plant stopped and vanes pinned to
11-May-15	17:04	30m	Unplanned	Requirement stop
13-May-15	20:10	50m	Unplanned	Requirement stop take to remove bed height probes due to damage
12-May-15	10:00	6h 5m	Unplanned	Requirement stop due to BF5 off and stockpile full.
21-May-15	03:22	1h 13m	Unplanned	repair work to 1024 screen
20-May-15	23:20	26m	Unplanned	failed to start
21-May-15	08:09	23m	Unplanned	Hood Emergency Stop button activated in error by Scaffolder.
21-May-15	15:40	1h 50m	Unplanned	Stock control providing opportunity
22-May-15	09:45	38m	Unplanned	Tail end trip box damaged by bobcat puller, activating the trip circuit.
20-May-15	00:53	21h 27m	Planned	Planned maintenance stop.
26-May-15	16:23	24m	Unplanned	133 off 137 on damaged wheel
28-May-15	16:41	2h 35m	Unplanned	Bearing on tray 45 collapsed causing wheel to de-rail.
28-May-15	20:03	1h 56m	Unplanned	Bearing on tray 45 collapsed causing wheel to de-rail

Signed on behalf of the Operator 

Dated 27/07/15

Form Sinter Operational

RELEASES INTO AIR

Operational summary for quarter ending 30-Jun-14

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	50 Hourly mean									
	May										
	Jun										
A63*	Apr	25 Hourly mean									
	May										
	Jun										

*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 27/07/15

Form I&S CEMS Part 3

Operational summary for quarter ending

30-Jun-14

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

Permit: BL7108 / RP3730BV

Ship Discharge and Burdening

Ship Discharge Information				
Ship	Time	Date	Duration (hh:mm)	Cargo
MV New Endeavor	14:14	13-Apr-15	24:06	Coal
MV BETEIGEUZE	08:45	20-Apr-15	35:15	Coke
MV Atlantic Bridge	10:25	22-Apr-15	44:05	Coke
MV Berge Arctic	12:50	24-Apr-15	24:10	Pellets
MV Gretke Oldendorff	02:05	27-Apr-15	57:55	Iron Ore Fines
MV Ventura	17:40	29-Apr-15	11:10	Pellets
MV Palios	06:00	01-May-15	22:10	Pellets
MV Cape Mathilde	19:36	02-May-15	55:49	Pellets
MV Scope	09:35	02-May-15	124:18	Iron Ore Fines
MV Ionic Kibou	21:38	09-May-15	27:38	Coke
MV Sagar Samrat	23:30	11-May-15	30:09	Coal
MV Australia Maru	13:25	15-May-15	44:35	Iron Ore Fines
MV Marina Bliss	04:55	18-May-15	53:33	Iron Ore Fines
MV Centennial Harmony	20:45	21-May-15	23:30	Coal
MV Hanjin Cape Lambert	09:45	21-May-15	23:30	Pellets
MV Ocean Topaz	13:23	26-May-15	36:02	Pellets
M.V Nord Cetus	16:04	28-May-15	25:13	Iron Ore Fines
MV Gretke Oldendorff	05:30	30-May-15	57.10	Coal
MV Marina Bliss	19:50	01-Jun-15	46:35	Coal
MV Atlantic Bridge	10:42	04-Jun-15	46:33	Coal
MV Navios Hope	22:05	06-Jun-15	38:55	Iron Ore Fines
MV Berge Arctic	00:50	09-Jun-15	44:10	Pellets
MV Anangel Conquerer	03:05	11-Jun-15	52:50	Pellets
MV Anangel Vision	05:50	14-Jun-15	27:30	Iron Ore Fines
MV Gretke Oldendorff	08:20	20-Jun-15	21:40	Pellets
MV Marina Bliss	11:30	21-Jun-15	47:16	Coal
Month	No.days rainfall <3 mm/day	No.days bowser used	No.days latex used	Volume latex used (m3/day) Maximum
Apr	3	As required	On discharge	-
May	8	As required	On discharge	-
Jun	5	As required	On discharge	-

Signed on behalf of the Operator 

Dated 27/07/15

Form Burdening 1

RELEASES INTO AIR

Operational summary for quarter ending

30-Jun-14

Operator: Port Talbot Works

Location: Port Talbot Works

Permit: BL7108 / RP3730BV

	NOx (tonnes)	Lead (tonnes)	PM10 (tonnes)	CO2 (k tonnes)
Morfa	57			
Iron & Steel	701	14.2	608	1509
Total	759	14.2	608	1509

Signed on behalf of the Operator



Dated 27/07/15

Form KPI

RELEASES INTO AIR

Operational summary for the six months to

30-Jun-13

Operator: Tata Steel UK Ltd

Release Point: A1

Location: Port Talbot Works

Permit: BL7108

Release Point	Sinter Main (A1)						
	Chloride (mg/Nm3)	Fluoride (mg/Nm3)	Lead (mg/Nm3)	VOC's (mg/Nm3)	PAH's * (ug/Nm3)	Dioxins** (ng/Nm3)	Dioxins *** (ng/Nm3)
Permit limit						2.0	
Measured conc. according to condition 10.1.3b	3.10	0.0	80.5	40.6	62.7	2.27	2.38
Measured oxygen (%)	17.0	18.0	17.4	17.9	17.8	17.9	17.9
Measured conc. according to condition 10.1.3a (17%O2)	3.1	0.0	89.7	52.8	79.2	3.0	3.1
Cogenerators < LoD at zero						2.27	2.38
Cogenerators < LoD at LoD						2.27	2.38
Analytical method used	IC	IC	ICP MS	FID	ENV PES 821	ENV PES 100	ENV PES 100
Date of sampling	05-Mar-15	05-Mar-15	04-Mar-15	10-Feb-15	10-Feb-15	10-Feb-15	10-Feb-15
Sample start time	10:20	11:30	10:35	13:20	11:07	11:07	11:07
Sample end time	11:20	12:30	11:35	15:19	13:07	13:07	13:07
Limit of detection	0.1	0.1	0.1	1.0	2.6	0.001	0.001
Continuous particulate result during sampling (hourly mean)	73	73	74	64	36	28050	28050
Process status at time of sampling							
Mean sulphur content of sinter blend in use (%)	0.430	0.430	0.430	0.039	0.039	0.039	0.039
Reverts content of sinter blend in use (%)	11.7	11.65	11.65	11.0	11.0	11.0	11.0
Mean chloride content of sinter blend in use (%)	0.31	0.31	0.31	0.03	0.026	0.026	0.026
Throughput during sampling period (% of maximum)	71	71	71	62	62	62	62

* PAH's as B[a]P

** Dioxins and furans as iTEQ

*** Dioxins and furans as WHO TEQ

- Data not available from labs as samples were not received for analysis. This has been investigated and an improvement has been put in place to resolve this issue.

Nb: Dioxins and Furans iTEQ ng/m3 Limit on average of all extractive spot sample carried out by the operator during a single calendar year.

Signed on behalf of the Operator 

Dated 23/07/2015

Form Sinter DCM 2