

RELEASES TO AIR

Operational summary for quarter ending 30-Jun-16

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	12474		
	Month 2	9527		
	Month 3	7097		
A13A BOS convertor 2 gas flare	Month 1	24947		
	Month 2	19054		
	Month 3	14193		
A33 Blast furnace gas flare stack no.1	Month 1	81576		
	Month 2	128153		
	Month 3	168298		
A33C Blast furnace gas flare stack no.2	Month 1	129346		
	Month 2	135649		
	Month 3	214354		
A33A Blast furnace gas main number 4 bleeder	Month 1		26	
	Month 2		17	
	Month 3		185	
A33B Blast furnace gas main number 5 bleeder	Month 1		90	
	Month 2		203	
	Month 3		48	
A59 Coke oven gas triple flare	Month 1	10250		
	Month 2	127245		
	Month 3	125738		
Blast furnaces 4 and 5	Month 1			1395280
	Month 2			1451842
	Month 3			1562981
Coke ovens	Month 1			459520
	Month 2			439935
	Month 3			597338
BOS Plant	Month 1			172592
	Month 2			176739
	Month 3			186347

Signed on behalf of the Operator

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Dated

08/11/16

Form Installation gas

WASTE PRODUCTION

Operational summary for quarter ending 30-Jun-16

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	Jul	46342	24091					
	Aug	18912	19926					
	Sep	33363	15891					
Iron and steel installation	Jul			1.3	947			
	Aug			0.5	928			
	Sep			2.2	1269			
BF4 tapholes	Jul					33314		
	Aug					33419		
	Sep					30704		
BF5 tapholes	Jul					31281		
	Aug					26155		
	Sep					27985		
BF5	Jul							0.00
	Aug							0.00
	Sep							0.00
Coke ovens	Jul						157	**
	Aug						165	**
	Sep						171	**

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

** WID compliant Oil.

Signed on behalf of the Operator

Dated 08/11/16

Form Waste 1

RELEASES INTO AIR

Operational summary for quarter ending 30-Jun-16

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)	1231	2130	2178	2184	2184	1991	1733
Mean load (%MCR)	45.1	55.6	47.4	85.6	76.6	61.6	55.9
Mean flue gas flow (Nm ³ /hr)	79962	120085	59534	218492	217997	151660	173412
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)	99	99	99	99	99	99	
Max. asphaltene content (g/Kg)	53	53	53	53	53	53	
Ave.%wt Sulphur	0.99	0.99	0.99	0.99	0.99	0.99	
NOx factor	0.1	0.1	0.1	0.1	0.1	0.1	
Coke Oven Gas							
Average net CV (GJ/km ³)	17.5	17.5	17.5	17.5	17.5	17.5	
Sulphur content (g/te)	3.61	3.61	3.61	3.61	3.61	3.61	
NOx factor	0.04	0.04	0.04	0.04	0.04	0.04	
Blast Furnace Gas							
Average net CV (GJ/km ³)	3.60	3.60	3.60	3.60	3.60	3.60	3.60
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

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Signed on behalf of the Operator 

Dated 08/11/16

RELEASES INTO AIR

Operational summary for quarter ending 30-Jun-16

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

Permit: BL7108

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

OXIDES OF NITROGEN - NO_x (DISCONTINUOUS MONITORING)						
Release Point	A50A&B Service 4&5	A51 A5	A52A No.6	A52B No.7	A53 Mitchell	A62 No.3
Time and date of sampling	19-Jul-16 11:30	28-Jul-16 09:32	07-Apr-16 09:54:00	07-Apr-16 10:58:00	18-Jul-16 13:47	- -
Flowrate (Nm ³ /hr)	459178	57384	210,345	205802	261409	-
NO _x measured** conc. (mg/Nm ³)	341 (+/-19.8)	17 (+/-1.2)	70 (+/-2.5)	27 (+/-1.1)	31 (+/-3.0)	-
NO _x limit (mg/NM ³)	300 BFG/COG	300 BFG/COG	300 BFG/COG	300 BFG/COG	300 BFG/COG	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	1133		20	89		-
Fuel usages over the sampling period						
Natural gas (%)	47%	10%	10%	10%	2%	-
BF gas (%)	31%	90%	70%	79%	90%	-
Coke oven gas (%)	22%	0%	20%	11%	8%	
Heavy fuel oil (%)	0%	0%	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 08/11/16

RELEASES INTO AIR

Operational summary for quarter ending

30-Jun-16

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	19-Jul-16 11:30	28-Jul-16 09:32	07-Apr-16 09:54:00	07-Apr-16 10:58:00	18-Jul-16 13:47	- -
Flowrate (Nm ³ /hr)	459178	57384	210345	205802	261409	-
SO ₂ measured conc. (mg/Nm ³)	916 (+/-55.5)	36 (+/- 1.6)	143 (+/-142.7)	44 (+/-1.5)	72 (+/- 2.2)	-
SO ₂ limit (mg/NM ³)	800 BFG/COG	800 BFG/COG	800 BFG/COG	800 BFG/COG	800 BFG/COG	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	1133		5.3	24.5		-
Fuel usages over the sampling period						
Natural gas (%)	47%	10%	10%	10%	2%	-
BF gas (%)	31%	90%	70%	79%	90%	-
Coke oven gas (%)	22%	0%	20%	11%	8%	
Heavy fuel oil (%)	0%	0%	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 08/11/16

Form LCPD DCM SO₂

RELEASES INTO AIR

Operational summary for quarter ending 30-Jun-16

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	Jul	0	35789	25469	1377		62635
	Aug	0	31736	16913	1545		50195
	Sep	0	0	577	404		981
A50B Service Boiler 5	Jul	0	32975	54142	0		87117
	Aug	0	24676	39737	0		64413
	Sep	492	34136	56661	0		91289
A51 Boiler A5	Jul	0	213	60030	5287	5	65535
	Aug	0	363	42304	3625	34	46327
	Sep	14	712	66580	6294	457	74057
A52A Boiler 6	Jul	0	41146	236397	36103	35034	348681
	Aug	0	33940	171375	23844	28433	257592
	Sep	2460	44939	264003	75658	22509	409570
A52B Boiler 7	Jul	0	34735	207993	27453	29325	299506
	Aug	4100	29566	153407	19338	27268	233679
	Sep	599	66849	241488	48417	18603	375955
A53 Mitchell	Jul	24	8314	118623	5678		132639
	Aug	150	5296	90372	4207		100026
	Sep	22	6683	111967	6047		124720
A62 Boiler 3	Jul			43720	5960	0	49680
	Aug			106930	6488	0	113418
	Sep			148086	34262	5	182353
Total	Jul	24	153172	746374	81859	64365	1045793
	Aug	4250	125576	621039	59048	55736	865650
	Sep	3587	153318	889362	171082	41574	1258924

Signed on behalf of the Operator 

Dated 08/11/16

Form LCPD Fuels

RELEASES INTO AIR

Operational summary for quarter ending 30-Jun-16

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

Permit: BL7108

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

PARTICULATE MATTER (mg/Nm ³) - 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	Jul	6.1	76.4	20/07/16 03:00	0.7	7.8	100%
	Aug	34.5	1321.7	25/08/16 01:00	0.0	96.5	100%
	Sep	9.2	231.2	26/09/16 13:00	0.6	15.8	100%
A51 Boiler A5	Jul	0.8	39.4	01/07/16 16:00	0.0	3.0	100%
	Aug	0.4	10.5	04/08/16 15:00	0.0	0.5	100%
	Sep	0.8	37.4	22/09/16 09:00	0.1	2.2	100%
A52A Boiler 6	Jul	1.7	14.3	27/07/16 04:00	1.1	0.5	100%
	Aug	2.2	21.6	24/08/16 16:00	1.3	2.5	100%
	Sep	1.9	19.3	15/09/16 20:00	0.8	1.6	100%
A52B Boiler 7	Jul	0.2	15.3	27/07/16 04:00	0.0	0.7	100%
	Aug	1.0	23.1	24/08/16 16:00	0.0	3.3	100%
	Sep	0.4	49.7	15/09/16 17:00	0.0	2.0	100%
A53 Mitchell	Jul	2.0	4.6	07/07/16 09:00	0.0	0.5	100%
	Aug	2.9	250.5	24/08/16 13:00	0.0	11.5	100%
	Sep	1.8	79.2	06/09/16 01:00	0.0	3.4	100%

Signed on behalf of the Operator 

Dated 08/11/16

Form LCPD CEM Parts

RELEASES INTO AIR

Operational summary for quarter ending

30-Jun-16


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	Jul	28.9	115.6	27/07/2016 4:00	1.4	16.7	100%
	Aug	41.7	277.5	24/08/2016 10:00	1.4	35.8	100%
	Sep	33.0	296.8	15/09/2016 20:00	0.7	30.5	100%
A52B Boiler 7	Jul	105.5	231.8	26/07/2016 15:00	1.8	45.8	17%
	Aug	116.2	282.6	24/08/2016 11:00	1.8	39.7	100%
	Sep	47.5	197.3	15/09/2016 18:00	1.8	36.8	100%
A50A & A50B Service Boilers	Jul	67.2	143.2	20/07/2016 2:00	38.1	17.3	100%
	Aug	63.6	164.1	10/08/2016 19:00	34.9	23.4	100%
	Sep	68.1	131.6	21/09/2016 11:00	36.9	16.7	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	Jul	114.5	247.1	27/07/2016 9:00	31.3	46.0	100%
	Aug	113.1	453.1	24/08/2016 15:00	30.8	69.6	100%
	Sep	145.6	639.0	15/09/2016 19:00	39.2	75.8	100%
A52B Boiler 7	Jul	164.3	667.2	26/07/2016 16:00	16.5	100.2	17%
	Aug	119.3	491.4	24/08/2016 16:00	2.2	76.6	100%
	Sep	120.9	557.8	21/09/2016 20:00	0.2	107.3	100%
A50A & A50B Service Boilers	Jul	303.4	952.8	20/07/2016 3:00	33.2	151.8	100%
	Aug	258.0	1052.1	10/08/2016 18:00	0.0	195.9	100%
	Sep	307.9	794.3	20/09/2016 10:00	48.8	128.8	100%

Signed on behalf of the Operator 

Dated 08/11/16

Form LCPD CEMS SO2 & NOx

RELEASES INTO AIR

Operational summary for quarter ending 30-Jun-16

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
Boiler 3	Jul	7.0	1.1	19-Jul-16	0.0	2.0	100.00%	8.7
	Aug	7.2	2.5	01-Aug-16	0.5	1.7	100.00%	9.4
	Sep	5.1	2.3	24-Sep-16	0.7	1.2	100.00%	8.2
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	
Boiler 3	Jul	2.6	0.1	19-Jul-16	0.0	0.5	100.00%	157.2
	Aug	39.8	6.1	25-Aug-16	0.0	9.7	100.00%	181.6
	Sep	39.0	12.5	08-Sep-16	1.7	10.4	100.00%	141.6
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	
Boiler 3	Jul	39.8	9.2	18-Jul-16	0.0	13.8	100.00%	174.1
	Aug	113.7	45.1	24-Aug-16	17.6	15.9	100.00%	188.8
	Sep	86.0	42.6	15-Sep-16	30.3	13.1	100.00%	164.6

Boiler 3 off from 21 January 2016.

Signed on behalf of the Operator 

Dated 08/11/16

RELEASES INTO AIR

Operational summary for quarter ending

30-Jun-16

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	29 (+/- 4.2)	292 (+/- 51.9)	104 (+/- 18.5)	6250 (+/- 942.2)
Measured oxygen content (%)	17.3	17.7	17.7	17.7
Measured conc. according to condition 10.1.3a (17%O ₂)	32	351	125	7500
Sampling method used	BS EN 13284	BS 6069	ISO 10849	BS ISO 12039
Analytical method used	Gravimetric	*EC	*EC	*EC
Date of sampling	19-Sep-16	19-Sep-16	19-Sep-16	19-Sep-16
Sample start time	11:26:00	11:05	11:05	11:05
Sample end time	12:26	12:05	12:05	12:05
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	48.0			
Process status at the time of sampling				
Mean sulphur content of sinter blend in use (%)	0.033	0.033	0.033	0.033
Reverts content of sinter blend in use (%)	10.0	10.0	10.0	10.0
Mean chloride content of sinter blend in use (%)	0.02	0.02	0.02	0.02
Throughput during sampling period (% of maximum)	39.2	39.2	39.2	39.2

* EC - electrochemical cell

Signed on behalf of the Operator



Dated

08/11/16

Form Sinter DCM 1

RELEASES INTO AIR

Operational summary for quarter ending

30-Jun-16

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	10.5	10.5	0.0	0.0	0.0	0.0	0.6	4.1	4.1	0.0	0.0	0.0	0.0	1.0	0.1	0.1	0.0	0.3	0.2	0.1	0.1
February	8.0	8.0	0.0	0.0	0.0	0.0	0.0	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.3	0.2	0.4	0.0
March	7.8	7.8	3.4	16.0	23.6	5.4	0.0	3.2	3.2	2.3	9.8	12.2	4.4	0.0	0.1	0.1	0.0	0.3	0.2	0.1	0.0
April	6.9	6.9	2.7	13.3	21.9	4.9	0.0	3.8	3.8	1.8	9.1	9.3	3.3	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0
May	6.5	6.5	3.6	19.3	24.9	5.8	0.0	3.1	3.1	1.8	9.4	9.6	3.5	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0
June	10.7	10.7	1.4	23.5	22.9	5.0	0.0	4.1	4.1	1.7	9.6	8.6	3.5	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0
July	10.4	10.4	0.8	19.9	16.6	5.0	0.0	4.0	4.0	1.7	9.7	8.3	3.5	0.1	0.2	0.2	0.0	0.0	0.0	0.0	0.0
August	8.7	8.7	0.8	14.9	13.8	3.4	0.3	3.8	3.8	1.6	9.7	8.6	3.5	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.2
September	7.2	7.2	1.2	23.4	31.0	4.0	0.3	2.9	2.9	1.9	12.4	11.4	3.3	1.9	0.2	0.2	0.0	0.0	0.0	0.0	0.2
October																					
November																					
December																					
Totals	77	77	3	16	24	5	1	32	32	13	70	68	25	5	2.2	2.2	0.1	0.9	0.6	0.7	0.5
	202							245							7						
	Service	A5	Margam C	Mit	3			Service	A5	Mgm C	Mit	3		Service	A5	Mgm C	Mit	3			
Boiler Plant Totals	153	3	40	5	1			64	13	138	25	5		4	0	2	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 08/11/16

Form LCPD Monthly 1

RELEASES INTO AIR

Operational summary for quarter ending

30-Jun-16

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	06-Jul-16 10:47	14-Jul-16 09:53		-	-	29-Sep-16 09:58	29-Sep-16 09:58	20-Jul-16 10:15
Flowrate (Nm3/hr)	219873	134857				233853	264028	38,016
NOx measured conc.(mg/Nm3) **	39 (+/-1.5)	22 (+/-1.1)				353 (+/- 14.2)	477 (+/-22)	2 (+/-0.7)
Oxygen content (%)								
NOx limits (mg/Nm3)	145	145				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 (%)	17%	0%				57%	16%	100%
BF gas (%)	73%	99%						0%
Coke oven gas (%)	10%	1%				43%	84%	
BOS Gas (%)	0%							

* 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 08/11/16

Form I&S DCM NOx

RELEASES INTO AIR

Operational summary for quarter ending

30-Jun-16

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	06-Jul-16 10:47	14-Jul-16 09:53	29-Sep-16 09:58	29-Sep-16 09:58	20-Jul-16 10:15
Flowrate (Nm3/hr)	219873	134857	233853	264028	38,016
SO2 measured conc.(mg/Nm3)	39 (+/- 1.5)	1 (+/- 0.7)	506 (+/-20.1)	889 (+/-40.3)	0 (+/- 0.5)
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 (%)	17%	0%	57%	16%	100%
BF gas (%)	73%	99%			0%
Coke oven gas (%)	10%	1%	43%	84%	
BOS Gas (%)	0%				

* EC - electrochemical cell

A39 has a 6 monthly monitoring requirement

Signed on behalf of the Operator



Dated 08/11/16

Form I&S DCM SO2

RELEASES INTO AIR

Operational summary for quarter ending 30-Jun-16

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-Sep-16 11:06	06-Jul-16 10:47	06-Jul-16 10:47	20-Jul-16 10:15	- -
Flowrate (Nm3/hr)	13,237	219873	134857	38,016	-
Measured conc.(mg/Nm3)	0.1 (+/-0.1)	6250 (+/- 228)	6250 (+/- 220)	693 (+/-12.3)	-
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 (%)		17%	0%	100%	-
BF gas (%)		73%	99%	0%	
Coke oven gas (%)		10%	1%		
Heavy fuel oil (%)		0%			

* EC - electrochemical cell

Signed on behalf of the Operator

Dated

08/11/16

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Form I&S DCM Misc

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RELEASES INTO AIR

Operational summary for quarter ending 30-Jun-16

Operator: Tata Steel UK Ltd

Location: Port Talbot Works

Permit: BL7108

Release Points: Iron plating continuec

Liquid Iron Plating Operations (Iron Plating Pit)			
Date	Time	Tonnes	Reason
10/08/16	23:58	161	Metallurgy Reasons
07/08/16	04:16	207	Metallurgy Reasons
07/08/16	03:09	256	Metallurgy Reasons
03/08/16	07:36	294	Metallurgy Reasons
03/08/16	06:21	294	Metallurgy Reasons
02/08/16	18:00	114	Metallurgy Reasons
28/07/16	02:21	82	Metallurgy Reasons
23/07/16	19:29	247	Metallurgy Reasons
23/07/16	18:21	220	Metallurgy Reasons
23/07/16	17:30	230	Metallurgy Reasons
23/07/16	16:56	256	Metallurgy Reasons
23/07/16	14:05	142	Metallurgy Reasons
23/07/16	13:53	247	Metallurgy Reasons
23/07/16	09:12	194	Metallurgy Reasons
23/07/16	08:39	228	Metallurgy Reasons
19/07/16	11:26	209	Metallurgy Reasons
19/07/16	10:46	260	Metallurgy Reasons
18/07/16	20:11	278	Metallurgy Reasons
18/07/16	15:51	256	Metallurgy Reasons
18/07/16	14:13	247	Metallurgy Reasons
18/07/16	12:48	268	Metallurgy Reasons
18/07/16	09:02	256	Metallurgy Reasons
18/07/16	07:32	218	Metallurgy Reasons
17/07/16	07:55	256	Metallurgy Reasons
17/07/16	07:28	180	Metallurgy Reasons
15/07/16	04:32	280	Metallurgy Reasons
15/07/16	03:01	208	Metallurgy Reasons
13/07/16	20:39	180	Metallurgy Reasons
13/07/16	19:54	171	Metallurgy Reasons
11/07/16	22:38	293	Metallurgy Reasons
11/07/16	14:07	188	Metallurgy Reasons
11/07/16	02:23	161	Metallurgy Reasons
11/07/16	01:35	294	Metallurgy Reasons
10/07/16	22:36	228	Metallurgy Reasons
10/07/16	17:07	208	Metallurgy Reasons
10/07/16	14:31	228	Metallurgy Reasons
10/07/16	09:40	256	Metallurgy Reasons
10/07/16	08:06	278	Metallurgy Reasons
04/07/16	10:41	228	Metallurgy Reasons
04/07/16	09:54	218	Metallurgy Reasons
Total		9019	

Signed on behalf of the Operator 

Dated 08/11/16

Form I&S Operational 1

RELEASES INTO AIR

Operational summary for quarter ending 30-Jun-16

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

Iron Ore Sintering - Record of strand stoppages > 30 min			
Date	Time		Planned/ Unplanned
	Start	Duration (mins)	
25-Jul-16	07:42	34m	Unplanned
25-Jul-16	11:43	3h 10m	Unplanned
25-Jul-16	20:45	17m	Unplanned
26-Jul-16	21:18	22m	Unplanned
28-Jul-16	11:41	24m	Unplanned
29-Jul-16	14:25	1h 1m	Unplanned
30-Jul-16	10:46	32m	Unplanned
31-Jul-16	02:32	28m	Unplanned
31-Jul-16	11:32	43m	Unplanned
31-Jul-16	17:16	6h 54m	Unplanned
03-Aug-16	04:10	18h 33m	Planned
04-Aug-16	10:55	2h 32m	Unplanned
06-Aug-16	23:35	43m	Unplanned
08-Aug-16	11:23	26m	Unplanned
10-Aug-16	00:35	7h 44m	Unplanned
10-Aug-16	08:22	21m	Unplanned
11-Aug-16	02:55	18m	Unplanned
13-Aug-16	08:20	49m	Unplanned
13-Aug-16	12:44	54m	Unplanned
14-Aug-16	14:28	22m	Unplanned
15-Aug-16	23:45	25m	Unplanned
16-Aug-16	10:12	4h 5m	Unplanned
16-Aug-16	14:22	41m	Unplanned
16-Aug-16	17:11	1h 39m	Unplanned
16-Aug-16	21:10	18m	Unplanned
16-Aug-16	23:14	16m	Unplanned
17-Aug-16	05:50	11h 40m	Planned
21-Aug-16	16:02	1h 9m	Unplanned
24-Aug-16	19:15	25m	Unplanned
24-Aug-16	20:40	28m	Unplanned
24-Aug-16	21:57	20m	Unplanned
23-Aug-16	18:04	1h 5m	Unplanned
23-Aug-16	23:15	23m	Unplanned
24-Aug-16	13:57	3h 1m	Unplanned
26-Aug-16	08:25	16m	Unplanned
26-Aug-16	09:10	28m	Unplanned
26-Aug-16	13:13	1h 19m	Unplanned
27-Aug-16	08:17	1h 10m	Unplanned

Signed on behalf of the Operator

Dated

08/11/16



RELEASES INTO AIR

Iron Ore Sintering - Record of strand stop 00-Jan-00

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

Iron Ore Sintering - Record of strand stoppages > 30 min			
Date	Time		Planned/
	Start	Duration (mins)	
27-Aug-16	15:23	38m	Unplanned
27-Aug-16	19:28	9h 28m	Unplanned
28-Aug-16	05:11	52m	Unplanned
28-Aug-16	15:17	18m	Unplanned
28-Aug-16	17:57	2h 2m	Unplanned
29-Aug-16	07:37	1h 21m	Unplanned
29-Aug-16	23:53	1h 58m	Unplanned
30-Aug-16	13:06	3h 26m	Unplanned
30-Aug-16	21:18	3h 44m	Unplanned
31-Aug-16	15:40	35m	Unplanned
31-Aug-16	17:52	36m	Unplanned
01-Sep-16	06:13	1h 47m	Unplanned
01-Sep-16	12:33	3h 6m	Unplanned
01-Sep-16	21:53	28m	Unplanned
01-Sep-16	22:25	55m	Unplanned
02-Sep-16	08:01	27m	Unplanned
02-Sep-16	09:04	58m	Unplanned
02-Sep-16	12:27	28m	Unplanned
05-Sep-16	11:15	19m	Unplanned
08-Sep-16	04:42	20m	Unplanned
08-Sep-16	09:00	35m	Unplanned
08-Sep-16	11:48	28m	Unplanned
08-Sep-16	18:27	33m	Unplanned
08-Sep-16	19:47	33m	Unplanned
08-Sep-16	20:39	46m	Unplanned
09-Sep-16	03:33	28m	Unplanned
09-Sep-16	04:05	17m	Unplanned
09-Sep-16	05:08	22m	Unplanned
09-Sep-16	05:34	29m	Unplanned
09-Sep-16	10:47	39m	Unplanned
09-Sep-16	21:36	19h 4m	Unplanned
11-Sep-16	20:21	23m	Unplanned
12-Sep-16	03:37	24m	Unplanned
12-Sep-16	12:24	1h 20m	Unplanned
12-Sep-16	15:32	16m	Unplanned
10-Sep-16	17:55	36m	Unplanned
10-Sep-16	22:13	4h 49m	Unplanned
14-Sep-16	02:48	18h 0m	Planned

Signed on behalf of the operator
Dated: 08-Nov-16



RELEASES INTO AIR

Operational summary for quarter ending 30-Jun-16

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

Iron Ore Sintering - Record of strand stoppages > 30 min			
Date	Time		Planned/
	Start	Duration (mins)	
01-Jul-16	19:05	22m	Unplanned
02-Jul-16	16:19	44m	Unplanned
03-Jul-16	14:46	29m	Unplanned
04-Jul-16	15:05	28m	Unplanned
05-Jul-16	13:27	1h 26m	Unplanned
06-Jul-16	00:33	43m	Unplanned
06-Jul-16	10:32	18m	Unplanned
06-Jul-16	14:30	20m	Unplanned
07-Jul-16	04:57	13h 38m	Planned
07-Jul-16	20:35	37m	Unplanned
07-Jul-16	23:15	55m	Unplanned
08-Jul-16	14:01	24m	Unplanned
09-Jul-16	18:33	24m	Unplanned
10-Jul-16	05:48	1h 57m	Unplanned
11-Jul-16	13:11	3h 38m	Unplanned
12-Jul-16	12:33	46m	Unplanned
12-Jul-16	21:14	26m	Unplanned
15-Jul-16	00:22	22m	Unplanned
17-Jul-16	01:45	1h 27m	Unplanned
17-Jul-16	16:20	5h 39m	Unplanned
16-Jul-16	18:23	1h 13m	Unplanned
18-Jul-16	08:19	30m	Unplanned
18-Jul-16	10:03	23m	Unplanned
18-Jul-16	14:14	31m	Unplanned
18-Jul-16	14:51	26m	Unplanned
19-Jul-16	00:08	17m	Unplanned
19-Jul-16	12:34	1h 51m	Unplanned
19-Jul-16	14:25	36m	Unplanned
19-Jul-16	18:02	34m	Unplanned
19-Jul-16	23:55	3h 20m	Unplanned
20-Jul-16	05:00	17h 2m	Planned
20-Jul-16	22:58	20m	Planned
21-Jul-16	02:10	1h 26m	Planned
21-Jul-16	13:21	19m	Unplanned
21-Jul-16	16:06	1h 38m	Unplanned
21-Jul-16	19:07	16m	Unplanned
23-Jul-16	16:16	28m	Unplanned
24-Jul-16	15:21	30m	Unplanned
24-Jul-16	17:13	52m	Unplanned
24-Jul-16	22:52	2h 8m	Unplanned

Signed on behalf of the Operator 

Dated 08/11/16

RELEASES INTO AIR

Operational summary for quarter ending 30-Jun-16

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	Jul	15	Fan 3A offline during reporting period								
	Aug	Daily									
	Sep	mean									
A63*	Jul	25	A63 currently non-operational, see NRW email/ Subject: Permit BL7108 - Emissions into Air Monitoring/ Sent: 27/01/2014.								
	Aug	Hourly									
	Sep	mean									

Signed on behalf of the Operator 

Dated 08/11/16

Form I&S CEMS Part 3

RELEASES INTO AIR

Operational summary for quarter ending

30-Jun-16

Operator: Port Talbot Works

Location: Port Talbot Works

Permit: BL7108 / RP3730BV

	NOx (tonnes)	Lead (tonnes)	PM10 (tonnes)	CO2 (k tonnes)
Morfa	251			
Iron & Steel	473	5.6	298	863
Total	724	5.6	298	863

Signed on behalf of the Operator



Dated 08/11/16

Form KPI