



Alison Soper
Natural Resources Wales
Chester Road
Buckley
Flintshire
CH7 3AJ

31st January 2014

Attn: Alison Soper

RE: SHOTTON WORKS PERMIT; ANNUAL RETURNS 2013

Please find attached the 2013 annual reporting returns for our site permit BR7321.

Yours sincerely

S McKenna
Environment Officer

MONITORING RETURNS N. WALLS	
	INITIALS DATE
CHECKED VIA AUTHORISATION	AS 4/2/14
TRACKING	JB 4.2.14
OK FOR PUBLIC REGISTER	AS 4/2/14
FILED TO SHOTTON'S RECORDS	JB EDEM

TATA STEEL

Colors

Shotton Works Deeside Flintshire CH5 2NH

T: +44 (0) 1244 81 2345 T: +44 (0) 1244 89 2922 (direct) F: +44 (0) 1244 89 2062 shaun.mckenna@tatasteel.com

Tata Steel UK Limited Registered Office Address 30 Millbank London W1P 4WY Registered in Country No. 2280000

1. NAME OF THE PARTY:
 2. ADDRESS:
 3. CITY: STATE: ZIP:
 4. PHONE:

5. DATE:



Permit Reference Number: BR7321

Installation: Tata Steel Colors Shotton Works

Operator: Corus UK Ltd

Form Number: E1

Reporting of Energy Usage for the year2013

Energy Source	Energy Usage		CO ₂ Produced (tonnes)
	Quantity	Primary Energy (MWh)	
Electricity *	MWh	172,970	28,540
Natural Gas	GJ	1,092,000	62,012
Gas Oil	Tonnes		
TOTAL	-	478,857	90,552

* Conversion factor for delivered electricity to primary energy = 2.6

Trends in Energy Usage			
Year	Parameter	CO ₂ produced	CO ₂ per MWh
2005	Primary Energy usage	127741 Tonnes	0.193 T/MWh
2006		134225 Tonnes	0.184 T/MWh
2007		121571 Tonnes	0.183 T/MWh
2008		113566 Tonnes	0.194 T/MWh
2009		93480 Tonnes	0.191 T/MWh
2010		94789 Tonnes	0.191 T/MWh
2011		91472 Tonnes	0.191 T/MWh
2012		76,541 Tonnes	0.181 T/MWh
2013		90,552 Tonnes	0.189 T/MWh

Operator's comments :

Gas and Electricity emission factors taken from Environment Agency's IPPC H2 – Energy Efficiency Horizontal guidance Note.
Oil emission factors taken from EU ETS Emissions factors

SignedS. McKenna.....
(authorised to sign as representative of the Operator)

Date.....31-1-14.....

UNIT RETURNING RETURNS N. WALES
INITIALS DATE
CHECKED vs AUTHORISATION
TYPING
OK FOR PUBLIC RELEASE
7/10/14 10:00 AM 15/01/2014

JS	4/2/14
JB	4.2.14
JS	4/2/14
JB	EDM

Permit Reference Number: BR7321

Operator: Corus UK Ltd

Installation: Tata Steel Colors Shotton Works

Form Number: WU1

Reporting of Water Usage for the year - 2013

Water Source	Usage (m ³)	Specific Usage (m ³ /t)
Mains water	458572	0.52
Site borehole	0	0
River abstraction		
TOTAL WATER USAGE	458572	

Trends in Water Usage			
Year	Parameter	Non-Potable Water	Water per unit output
2004	Potable Water	1,642,412	1.69
2005		1,191,544	1.30
2006		1,013,508	1.17
2007		881,258 (FWD) 12,341 (Boreholes)	1.04
2008		736,049 (FWD) 32,572 (Boreholes)	0.91
2009		494,822 (FWD) 122,823 (boreholes)	1.10
2010		539,728 (FWD) 42,786 (borehole)	0.89
2011		548,670 (FWD)	0.93
2012		448,102 (FWD)	0.92
2013		323,765 (FWD)	0.53

Operator's comments :

Note:

Signed S. McKenna
(authorised to sign as representative of the Operator)

Date.....31-1-14.....

Operator: Corus UK Ltd

Form Number: RI

Reporting of Waste Disposal and Recovery for the year 2013

[illegible]

Date.....31-1-14.....

Permit Reference Number: BR7321

Operator: Corus UK Ltd

Installation: Tata Steel Colors Shotton Works

Form Number: PI1

Reporting of Performance Indicators for the year 2013

Annual Production/Treatment	
Production of galvanised steel product	612069 tonnes
Production of colour coated steel product	241437 tonnes
Total Production of coated steel products	853507 tonnes

Environmental Performance Indicators

Parameter	Annual Average	Units
Primary Energy Use	478,857	MW-hr / tonne
Total VOC Emission to Air (as Carbon)	0.18	Kg / tonne
VOC Fugitive Emission Value	3.57	%
Potable Water Use	0.15	m ³ / tonne
Non-Potable Water Use	0.37	m ³ / tonne
Quantity of Hazardous Waste	1.37	Kg / tonne
Quantity of Non-Hazardous Waste	15.3	Kg / tonne

Trends in Environmental Performance			
Year	Parameter	Total VOC / tonne	% VOC Fugitives
2004		0.13	2.75
2005		0.145	2.83
2006		0.137	2.87
2007		0.15	2.92
2008		0.05	2.43
2009		0.157	9.11
2010		0.159	10.2
2011		0.07	4.86
2012		0.05	3.13
2013		0.05	3.57

Operator's comments :

Signed S. McKenna
(authorised to sign as representative of the Operator)

Date.....31-1-14.....

RECEIVED

31 JAN 2014

Permit Reference Number: BR7321

Operator: Corus UK Ltd

Installation: Corus Colors Shotton Works

Form Number: A1 (Page 1 of 16)

Reporting of Emissions to Air for the period from 01/01/13 to 31/12/13

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
A1(gas firing conditions)	Oxides of Nitrogen (as NO ₂)	300 mg/m ³	83.0 mg/Nm ³	Electrochemical 1 cell	21/10/13 10:14 Hrs	None	±14mg/Nm ³
	Carbon monoxide (mg/m ³)		81.2 mg/Nm ³	Electrochemical 1 cell	21/10/13 10:14 Hrs	None	±11.6mg/Nm ³
A1(oil firing conditions) NOT OPERATED	Oxides of Nitrogen (as NO ₂)	450 mg/m ³					
	Particulates	50 mg/m ³					
	Carbon monoxide (mg/m ³)						
	Sulphur dioxide (Kg)						

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum - maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The accreditation status of the equipment and/or the monitoring organisation, as appropriate, for the methods used for both sampling and analysis.

[5] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated. The following uncertainties are quoted on a different basis (basis as stated) - {The basis of any other uncertainty figure needs to be stated. Where no figure is available the Agency will need to agree an appropriate uncertainty value.}

UNIT HUNG RETURNS N. WALP8

Signed S. McKenna.....
(authorised to sign as representative of the Operator)

Date:.....31.1.14.....

INITIALS DATE

CHECKED V6 AUTHORISATION

TRACKING

OK FOR PUBLIC RELEASE

FOR OFFICIAL USE ONLY

INITIALS	DATE
☐	☐
JB	4-2-14
☐	☐
JB	EDDM

Permit Reference Number: BR7321

Operator: Corus UK Ltd

Installation: Corus Colors Shotton Works

Form Number: A1 (Page 2 of 16)

Reporting of Emissions to Air for the period from 01/01/13 to 31/12/13

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
A2(gas firing conditions)	Oxides of Nitrogen (as NO ₂)	300 mg/m ³	94.6 mg/Nm ³	Electrochemical cell	09/10/13 14:52 Hrs	None	+14mg/Nm ³
	Carbon monoxide (mg/m ³)		<1 mg/Nm ³	Electrochemical cell	09/10/13 14:52 Hrs	None	+10mg/Nm ³
A2(oil firing conditions) NOT OPERATED	Oxides of Nitrogen (as NO ₂)	450 mg/m ³					
	Particulates	50 mg/m ³					
	Carbon monoxide (mg/m ³)						
	Sulphur dioxide (Kg)						

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Signed S. McKenna
(authorised to sign as representative of the Operator)

Date.....31.1.14.....

Permit Reference Number: BR7321

Operator: Corus UK Ltd

Installation: Corus Colors Shotton Works

Form Number: A1 (Page 3 of 16)

Reporting of Emissions to Air for the period from 01/01/13 to 31/12/13

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
A3(gas firing conditions)	Oxides of Nitrogen (as NO ₂)	300 mg/m ³	89.9 mg/Nm ³	Electrochemical cell	09/10/13 13:45 Hrs	None	+14mg/Nm ³
	Carbon monoxide (mg/m ³)		<1 mg/Nm ³	Electrochemical cell	09/10/13 13:45 Hrs	None	+10.2mg/Nm ³
A3(oil firing conditions) NOT OPERATED	Oxides of Nitrogen (as NO ₂)	450 mg/m ³					
	Particulates	50 mg/m ³					
	Carbon monoxide (mg/m ³)						
	Sulphur dioxide (Kg)						

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum - maximum' measured values.

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Signed S. McKenna
(authorised to sign as representative of the Operator)

Date.....31.1.14.....

Permit Reference Number: BR7321

Operator: Corus UK Ltd

Installation: Corus Colors Shotton Works

Form Number: A1 (Page 4 of 16)

Reporting of Emissions to Air for the period from 01/01/13 to 31/12/13

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
A4(gas firing conditions) NOT OPERATED	Oxides of Nitrogen (as NO ₂)	300 mg/m ³					
	Particulates	5 mg/m ³					
	Carbon monoxide (mg/m ³)						
A4(oil firing conditions) NOT OPERATED	Oxides of Nitrogen (as NO ₂)	450 mg/m ³					
	Particulates	50 mg/m ³					
	Carbon monoxide (mg/m ³)						
	Sulphur dioxide (Kg)						

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Date.....31.1.14.....

Permit Reference Number: BR7321

Operator: Corus UK Ltd

Installation: Corus Colors Shotton Works

Form Number: A1 (Page 5 of 16)

Reporting of Emissions to Air for the period from 01/01/13 to 31/12/13

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
A5(gas firing conditions) NOT OPERATED	Oxides of Nitrogen (as NO ₂)	300 mg/m ³					
	Particulates	5 mg/m ³					
	Carbon monoxide (mg/m ³)						
A5(oil firing conditions) NOT OPERATED	Oxides of Nitrogen (as NO ₂)	450 mg/m ³					
	Particulates	50 mg/m ³					
	Carbon monoxide (mg/m ³)						
	Sulphur dioxide (Kg)						

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Signed S. McKenna Date.....31.1.14.....
(authorised to sign as representative of the Operator)

Permit Reference Number: BR7321

Operator: Corus UK Ltd

Installation: Corus Colors Shotton Works

Form Number: A1 (Page 6 of 16)

Reporting of Emissions to Air for the period from 01/01/13 to 31/12/13

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
A6(gas firing conditions) NOT OPERATED	Oxides of Nitrogen (as NO ₂)	300 mg/m ³					
	Particulates	5 mg/m ³					
	Carbon monoxide (mg/m ³)						
A6(oil firing conditions) NOT OPERATED	Oxides of Nitrogen (as NO ₂)	450 mg/m ³					
	Particulates	50 mg/m ³					
	Carbon monoxide (mg/m ³)						
	Sulphur dioxide (Kg)						

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(authorised to sign as representative of the Operator)

Date.....31.1.14.....

Permit Reference Number: BR7321

Operator: Corus UK Ltd

Installation: Corus Colors Shotton Works

Form Number: A1 (Page 7 of 16)
Reporting of Emissions to Air for the period from 01/01/13 to 31/12/13

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
A7(gas firing conditions)	Oxides of Nitrogen (as NO ₂)	300 mg/m ³	201.5	Electrochemical cell	12/04/2013 10:31 Hrs	None	±14mg/Nm ³
	Carbon monoxide (mg/m ³)		3.2	Electrochemical cell	12/04/2013 10:31 Hrs	None	±10.2mg/Nm ³
A7(oil firing conditions)	Oxides of Nitrogen (as NO ₂)	450 mg/m ³					
	Particulates	50 mg/m ³					
	Carbon monoxide (mg/m ³)						
	Sulphur dioxide (Kg)						

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(authorised to sign as representative of the Operator)

Permit Reference Number: BR7321

Operator: Corus UK Ltd

Installation: Corus Colors Shotton Works

Form Number: A1 (Page 8 of 16)

Reporting of Emissions to Air for the period from 01/01/13 to 31/12/13

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
A8(gas firing conditions)	Oxides of Nitrogen (as NO ₂)	300 mg/m ³	201.5mg/Nm ³	Electrochemical cell	12/04/13 10:04 Hrs	None	+14mg/Nm ³
	Carbon monoxide (mg/m ³)		3.2 mg/Nm ³	Electrochemical cell	12/04/13 10:04 Hrs	None	+10mg/Nm ³
A8(oil firing conditions) NOT OPERATED	Oxides of Nitrogen (as NO ₂)	450 mg/m ³					
	Particulates	50 mg/m ³					
	Carbon monoxide (mg/m ³)						
	Sulphur dioxide (Kg)						

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Signed S. McKenna
(authorised to sign as representative of the Operator)

Date.....31.1.14.....

Permit Reference Number: BR7321

Operator: Corus UK Ltd

Installation: Corus Colors Shotton Works

Form Number: A1 (Page 9 of 16)

Reporting of Emissions to Air for the period from 01/01/13 to 31/12/13

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
A9(gas firing conditions) NOT OPERATED	Oxides of Nitrogen (as NO ₂)	300 mg/m ³					
	Carbon monoxide (mg/m ³)						
A9(oil firing conditions) NOT OPERATED	Oxides of Nitrogen (as NO ₂)	450 mg/m ³					
	Particulates	50 mg/m ³					
	Carbon monoxide (mg/m ³)						
	Sulphur dioxide (Kg)						

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Signed S. McKenna
(authorised to sign as representative of the Operator)

Date.....31.1.14.....

Permit Reference Number: BR7321

Operator: Corus UK Ltd

Installation: Corus Colors Shotton Works

Form Number: A1 (Page 10 of 16)

Reporting of Emissions to Air for the period from 01/01/13 to 31/12/13

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
A10(gas firing conditions) NOT OPERATED	Oxides of Nitrogen (as NO ₂)	300 mg/m ³					
	Carbon monoxide (mg/m ³)						
A10(oil firing conditions) NOT OPERATED	Oxides of Nitrogen (as NO ₂)	450 mg/m ³					
	Particulates	50 mg/m ³					
	Carbon monoxide (mg/m ³)						
	Sulphur dioxide (Kg)						

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(authorised to sign as representative of the Operator)

Date.....31.1.14.....

Permit Reference Number: BR7321

Operator: Corus UK Ltd

Installation: Corus Colors Shotton Works

Form Number: A1 (Page 11 of 16)

Reporting of Emissions to Air for the period from 01/01/13 to 31/12/13

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
A11 NO LONGER IN USE	Oxides of Nitrogen (as NO ₂)						
	Carbon monoxide						
	Volatile Organic Carbon (as C)						
A12 1 colorcoat old RTO	Oxides of Nitrogen (as NO ₂)	100 mg/m ³	11.2 mg/Nm ³	Electrochemical cell	14/08/13 15:53Hrs	None	±14mg/Nm ³
	Carbon monoxide	100 mg/m ³	27.7mg/Nm ³	Electrochemical cell	14/08/13 15:53Hrs	None	±10mg/Nm ³
	Volatile Organic Carbon (as C)	50 mg/m ³	1.9 mg/Nm ³	FID	14/08/13 15:53Hrs	None	±3.7mgC/m ³

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Signed S. McKenna Date.....31.1.14.....
(authorised to sign as representative of the Operator)

Permit Reference Number: BR7321

Operator: Corus UK Ltd

Installation: Corus Colors Shotton Works

Form Number: A1 (Page 12 of 16)

Reporting of Emissions to Air for the period from 01/01/13 to 31/12/13

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
A12A 1 colorcoat new RTO	Oxides of Nitrogen (as NO ₂)	100 mg/m ³	26.4mg/N m ³	Electrochemical cell	15/08/13 09:08Hrs	None	+14mg/Nm ³
	Carbon monoxide	100 mg/m ³	9.5 mg/Nm ³	Electrochemical cell	15/08/13 09:08Hrs	None	+10mg/Nm ³
	Volatile Organic Carbon as C	50 mg/m ³	31.0 mg/Nm ³	BS EN 12619	15/08/13 09:08Hrs	None	+3.7mgC/m ³
A21 2 colorcoat new RTO	Oxides of Nitrogen (as NO ₂)	100 mg/m ³	49.8mg/N m ³	Electrochemical cell	07/08/13 11:04Hrs	None	+14mg/Nm ³
	Carbon monoxide	100 mg/m ³	8.6mg/Nm ³	Electrochemical cell	07/08/13 11:04Hrs	None	+10mg/Nm ³
	Volatile Organic Carbon as C	20 mg/m ³	6.1 mg/Nm ³	BS EN 12619	07/08/13 11:04Hrs	None	+3.7mgC/m ³
	Isocyanates as NCO	Test no longer required					

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum - maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The accreditation status of the equipment and/or the monitoring organisation, as appropriate, for the methods used for both sampling and analysis.

[5] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated. The following uncertainties are quoted on a different basis (basis as stated) - {The basis of any other uncertainty figure needs to be stated. Where no figure is available the Agency will need to agree an appropriate uncertainty value.}

Signed S. McKenna Date.....31.1.14.....
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Permit Reference Number: BR7321

Operator: Corus UK Ltd

Installation: Corus Colors Shotton Works

Form Number: A1 (Page 13 of 16)

Reporting of Emissions to Air for the period from 01/01/13 to 31/12/13

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
A31	Oxides of Nitrogen (as NO ₂) (mg/m ³)						
5 galv DF furnace	Carbon monoxide (mg/m ³)						
NOT TESTED							
A32 5 galv DF furnace with boiler	Oxides of Nitrogen (as NO ₂) (mg/m ³)		33.9 mg/Nm ³	ISO 10849	21/11/13 10:42Hrs	None	±14mg/m ³
	Carbon monoxide (mg/m ³)		22.0 mg/Nm ³	ISO 12039	21/11/13 10:42Hrs	None	±10mg/m ³

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum - maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.

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Signed S. McKenna Date.....31.1.14.....
(authorised to sign as representative of the Operator)

Permit Reference Number: BR7321

Operator: Corus UK Ltd

Installation: Corus Colors Shotton Works

Form Number: A1 (Page 14 of 16)

Reporting of Emissions to Air for the period from 01/01/13 to 31/12/13

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
A33 5 Galv RT furnace	Oxides of Nitrogen (as NO ₂) (mg/m ³)		39.9mg/Nm ³	ISO 10849	25/11/13 11:49Hrs	None	±14mg/m ³
	Carbon monoxide (mg/m ³)		56.6mg/Nm ³	ISO 12039	25/11/13 11:49Hrs	None	±12mg/m ³
A35 6 galv furnace	Oxides of Nitrogen (as NO ₂) (mg/m ³)		73.4mg/Nm ³	ISO 10849	02/12/13 13:02Hrs	None	±14mg/m ³
	Carbon monoxide (mg/m ³)		94.3mg/Nm ³	ISO 12039	02/12/13 13:02Hrs	None	±10mg/m ³

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum - maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The accreditation status of the equipment and/or the monitoring organisation, as appropriate, for the methods used for both sampling and analysis.

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Signed S. McKenna
(authorised to sign as representative of the Operator)

Date.....31.1.14.....

Permit Reference Number: BR7321

Operator: Tatasteel UK Ltd

Installation: Corus Colors Shotton Works

Form Number: A1 (Page 15 of 16)

Reporting of Emissions to Air for the period from 01/01/13 to 31/12/13

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
A13 1 colorcoat Coater house extraction	Volatile Organic Carbon (as C)	None	27.2 mg/Nm ³	FID	16/10/13 09:59Hrs	None	±3.7mgC/m ³
A14 1 colorcoat washtank extraction	Volatile Organic Carbon (as C)	None	42.2 mg/Nm ³	FID	16/10/13 12:07Hrs	None	±3.7mgC/m ³

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum - maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. In other cases the principal technique is stated, e.g. gas chromatography. Agency is used, then the appropriate identifier is given.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The accreditation status of the equipment and/or the monitoring organisation, as appropriate, for the methods used for both sampling and analysis.

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(authorised to sign as representative of the Operator)

Date:31.1.14.....

Permit Reference Number: BR7321

Operator: Tatasteel UK Ltd

Installation: Corus Colors Shotton Works

Form Number: A1 (Page 16 of 16)

Reporting of Emissions to Air for the period from 01/01/13 to 31/12/13

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
A15 1 colorcoat paint kitchen extraction	Volatile Organic Carbon as C	None	9.0 mg/Nm ³	BS EN 12619	15/08/13 14:01Hrs	None	+3.7mgC/m ³

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

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Signed S. McKenna

Date.....31.1.14.....

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