

Permit Reference Number: BU21101S

Operator : Cabot Carbon Limited

Installation: Barry Silicon-Based Manufacturing Installation

Form Number: A2 / Form Dated 1st February 2006

Reporting of Emissions to Air for the period from 1st January 2013 to 31st December 2013

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
A1	Oxides of nitrogen as NO ₂	50mg/m ³ ^[6]	18.3	ASTM6348-03 ^[9]	04/12/2013, 0930 – 1030	MCERTS / UKAS	±7.5 mg/m3
A2	Oxides of nitrogen as NO ₂	200mg/m ³ ^[7]	27.5	BS EN 14792	05/12/2013, 1505 – 1605 ^[9]	MCERTS / UKAS	± 23.9 mg/m3
A2	Carbon monoxide	200mg/m ³ ^[7]	10.5	BS EN 15058	05/12/2013, 1505 – 1605 ^[9]	MCERTS / UKAS	± 29.1 mg/m3
A3	Oxides of nitrogen as NO ₂	None	- (a) 164.5 (b)	BS EN 14792	05/12/2013, 1205-1305	MCERTS / UKAS	± 24.5 mg/m3
A3	Carbon monoxide	None	- (a) 11.9 (b)	BS EN 15058	05/12/2013, 1205-1305	MCERTS / UKAS	± 29.1 mg/m3
A13	Formaldehyde	150g/hr ^[6] ^[8]	0.04 (c) 8.3 (d)	BS EN 13649	(c) 23/05/13: 1140-1240 (d) 23/05/13: 1140-1240	MCERTS / UKAS	±36%
			0.03 (c) 3.6 (d)		(c) 03/12/13:1250-1350 (d) 03/12/13:1250-1350		±36%
				BS EN 13649		MCERTS / UKAS	±36%

[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.

[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.

[3] For non-continuous measurements the date and time of the sample that produced 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 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.

[6] Corrected to 273K, 101.3KPa.

[7] Corrected to 273K, 101.3KPa, 3% oxygen, dry.

[8] A new Emission Limit Value of 150g/hr as set in the new permit variation (22/12/08) to be used from the next reporting period (Jan09-Mar09).

Note: Ref [1] above. This is now the average value of sample results, being more representative, as agreed with E.A.

(a) – Results on boiler A (1)-No measurement taken, Boiler A taken out of service since B4 expansion (b) – results on boiler B(2) (c) – Scrubber discharge A13.1 (d) – TF 38 filter discharge A13.2

[9] ASTM6348-03 (FTIR) equivalent method used as agreed by the EA.

Signed

(authorised to sign as representative of Operator)

Date: 31st January 2014