

Template	KC/ENV/TEM/4007
Created by: K Baker	Date 24/08/2010
Approved by: K Baker	Printed: 31/01/2019
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Schedule 1 – Notification of Abnormal Emissions

Part A

Permit Number (in bold)	EA: BW9999IG	Wrexham: WCBC/IPPC/03/KR(V5)
Report Reference Number	KC/PARTAB/NRW/06	
Name of Operator	Kronospan Limited	
Location of Installation	Holyhead Road, Chirk, Wrexham, LL14 5NT	
Date Information is Provided	31/01/2019	
Name of Complainant	N/A	
Address of Complainant	N/A	
Date Complaint Received	N/A	
Location of Emission	K1 Boiler - Kronoplus	
Time and Date of Emission	N/A	

Substance(s) emitted	Media	Best estimate of the quantity or rate of emission	Time during which the emission took place
NO _x	Air	N/A	N/A

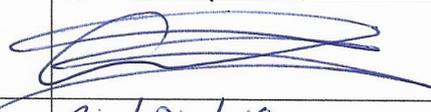
Measures taken, or intended to be taken to stop the emission	N/A
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Part B

Any more accurate information on the matters for notification under Part A	<p>As per permit conditions, emissions testing for NO_x and CO was carried out on the K1 Boiler in 2017 and 2018 (although the latter, due to issues with the supplier, was postponed until January 2019). Whilst completing 2018 annual reporting forms it became apparent that data provided by the supplier gave results in PPM instead of mg/m³. Upon inspection, the 2017 results were also reported as PPM instead of mg/m³. These figures had not been converted on the A1 annual report. A corrected 2017 A1 report is sent along with this Part A/B and 2018's A1 form has been submitted with converted figures.</p> <p>The ELV for NO_x at the K1 Boiler is currently 90 mg/m³, whilst K5 and K6 have an ELV of 200mg/m³ within the most recent permit variation. These figures were based on information provided at the time of applying for the permit variation, which have turned out to be inaccurate based on the testing carried out since. Please see the table below which demonstrates that on all occasions K1 has exceeded the 90mg/m³ ELV for NO_x when the PPM result is converted.</p>
Measures taken, or intended to be taken to prevent a recurrence of the incident.	Kronospan would ask that a review of the ELV for this boiler is undertaken, based on results received during emission testing. K1 is a 2.25MWth gas fired boiler, capable of generating up to 1.5MWth of usable heat, and is the smallest combustion plant on-site. However, past results show would suggest that an ELV similar to that of K5 and K6 would be accurate.
Measures taken, or intended to	N/A

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be taken to rectify, limit or prevent any pollution of the environment or harm which has been or may be caused by the emission.	
The dates of any unauthorised emissions from the installation in the preceding 24 months.	W04 – 06/02/2017 W05 – 18/07/2017

Name*	CHELSEY BARKER
Post	EHS OFFICER
Signature	
Date:	31/01/19

*Authorised to sign on behalf of Kronospan Limited.

Source	Emission Limit mg/m3	2017		2018	
		PPM	mg/m3*	PPM	mg/m3*
K1	90	70.5	143	67	136
		50	101	71	144
		91	184	72	146
K5	200	47	95.2	51	103
		44	89.1	71	144
		48	97.2	83	168
K6	200	65.1	132	52	105
		58	118	68	138
		80	162	86	174

*calculated as NO₂

Permit Number: **EPR/BW99999IG/V007**

Operator: **Kronospan Limited**

Facility: **Chirk Particleboard Factory**

Form Number: **Air 1**

Date : **30/11/2017**

Reporting of emissions to air for the period

A1-A20: 2017 A21-A25: 01/10/2017 to 31/12/2017

Emission Point	Substance / Parameter	Emission Limit Value	Result 1	Sample Date and Time	Result 2	Sample Date and Time	Result 3	Sample Date and Time
A1	Formaldehyde	5 mg/m ³	1.4	25/09/2017 14:04-14:44	1.8	25/09/2017 14:55-15:35	2.2	25/09/2017 15:44-16:24
A5	Formaldehyde	5 mg/m ³	1.2	25/09/2017 09:57-10:38	1.1	25/09/2017 10:59-11:40	1.4	25/09/2017 12:02-12:43
A5	Total VOCs	50 mg/m ³	4.9	25/09/2017 13:15-13:35	5.7	25/09/2017 13:35-13:55	6.0	25/09/2017 13:55-14:15
A5	Particulates	20 mg/m ³	1.2	25/09/2017 09:57-10:38	1.0	25/09/2017 10:59-11:40	0.6	25/09/2017 12:02-12:43
A6	Formaldehyde	5 mg/m ³	1.4	03/10/2017 11:12-11:52	1.4	03/10/2017 12:28-13:08	0.8	03/10/2017 13:26-14:06
A6	Total VOCs	50 mg/m ³	6.5	03/10/2017 11:12-11:52	6.3	03/10/2017 12:28-13:08	7.0	03/10/2017 13:26-14:06
A6	Particulates	20 mg/m ³	1.5	03/10/2017 11:12-11:52	0.2	03/10/2017 12:28-13:08	1.1	03/10/2017 13:26-14:06
A16 (K1)	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	90 mg/Nm ³	143.0	02/11/2017 20:17	101.0	02/11/2017 20:17	184.0	02/11/2017 20:17
	Carbon monoxide	No limit set	1.2	02/11/2017 20:17	2.5	02/11/2017 20:17	0.0	02/11/2017 20:17
A17 (K5)	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	200 mg/Nm ³	95.2	27/09/2017	89.1	27/09/2017	97.2	27/09/2017
	Carbon monoxide	No limit set	6.5	27/09/2017	3.7	27/09/2017	12.3	27/09/2017
A18 (K6)	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	200 mg/Nm ³	132.0	12/10/2017	118.0	12/10/2017	162.0	12/10/2017
	Carbon monoxide	No limit set	2.5	12/10/2017	1.2	12/10/2017	3.7	12/10/2017
A19	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	390* mg/Nm ³	211.0**	27/09/2017 10:15-11:15	N/A	N/A	N/A	N/A

Emission Point	Substance / Parameter	Emission Limit Value	Result 1	Sample Date and Time	Result 2	Sample Date and Time	Result 3	Sample Date and Time
	Carbon monoxide	No limit set	19.4	27/09/2017 10:15-11:15	N/A	N/A	N/A	N/A
A20	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	390* mg/Nm ³	216.0**	27/09/2017 11:40-12:40	N/A	N/A	N/A	N/A
	Carbon monoxide	No limit set	13.3	27/09/2017 11:40-12:40	N/A	N/A	N/A	N/A
A21	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	280 mg/Nm ³	219.0**	31/10/2017 14:45-15:45	N/A	N/A	N/A	N/A
	Carbon monoxide	No limit set	276.0	31/10/2017 14:45-15:45	N/A	N/A	N/A	N/A
A22	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	280 mg/Nm ³	262.0**	31/10/2017 12:27-13:27	N/A	N/A	N/A	N/A
	Carbon monoxide	No limit set	257.0	31/10/2017 12:27-13:27	N/A	N/A	N/A	N/A
A23	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	280 mg/Nm ³	254.0**	31/10/2017 13:35-14:35	N/A	N/A	N/A	N/A
	Carbon monoxide	No limit set	259.0	31/10/2017 13:35-14:35	N/A	N/A	N/A	N/A
A24***	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	280 mg/Nm ³	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon monoxide	No limit set	N/A	N/A	N/A	N/A	N/A	N/A
A25***	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	280 mg/Nm ³	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon monoxide	No limit set	N/A	N/A	N/A	N/A	N/A	N/A

Comments - *correction to match limit as stated in permit; **this result was based on one continuous 1hr test; *** A24 and A25 have not yet been installed. A16, A17, & A18: Result 1 = Average, Result 2 = Low Fire, Result 3 = High Fire

Signed 
 (Authorised to sign as representative of Operator)

Date: 30/01/19

Corrections have been made as per condition 3.1.4