

# Schedule 5 - Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the PPC Regulations.

## Part A

Permit Number	EPR/BL1096IB/V013
Name of operator	Castle Cement Limited
Location of Installation	Padeswood Works, Padeswood, Mold.
Time and date of the detection	00:01hrs 26 <sup>th</sup> Aug 2016 to 23:59 28 <sup>th</sup> Aug 2016

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission which has caused, is causing or may cause significant pollution	
To be notified within 24 hours of detection	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Emission point reference/ source	A8 Main Kiln Main Stack
Parameter(s)	Particulates
Limit	10 mg/Nm3
Measured value and uncertainty	13.58 mg/Nm3
Date and time of monitoring	00:01hrs 26 <sup>th</sup> Aug 2016 to 23:59 28 <sup>th</sup> Aug 2016
Measures taken, or intended to be taken, to stop the emission	26 <sup>th</sup> - The dust monitor reading was noticed to be trending high; a damaged bag was identified as causing the spike on the dust monitor in chamber 3 of the main bag filter, the filter chamber was isolated, the damaged bag was changed and chamber 3 reopened and the dust dropped to 8 MgNm3.

	<p>Additional work was carried out to drop the emissions further.</p> <p>27<sup>th</sup> - Reduction in dust emission was achieved by changing bags and carrying out welding/fabrication repairs on the filter throughout the night., it did not drop sufficiently and consequently the emission limit was exceeded.</p> <p>28<sup>th</sup> The kiln was stopped at 10.52 Sunday to allow further remedial work to be carried out. However for during the hours of operation the daily emission limit was exceeded.</p>
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**Time periods for notification following detection of a breach of a limit**

Parameter	Notification period

**(c) Notification requirements for the detection of any significant adverse environmental effect**

**To be notified within 24 hours of detection**

Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

**Part B - to be submitted as soon as practicable**

Any more accurate information on the matters for notification under Part A.	<p>When initially noticed dust emissions were trending upwards the following actions were taken on site, with the aim to reduce stack emissions.</p> <ul style="list-style-type: none"> <li>• Reduced gas temperature</li> <li>• Reduced Kiln tonnage which in turn reduced ID fan with the aim to reduce differential pressure on the filter.</li> <li>• Reduce dust loading through drawing more combustion gases through coal filter.</li> <li>• Removed all alternative fuels</li> <li>• In addition to carrying out inspection of filter.</li> <li>• Isolation of individual chambers to identify source of emissions</li> <li>• Bags change in in three chambers</li> </ul>
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	<ul style="list-style-type: none"> <li>• A plan for additional bag changes was put in place</li> </ul> <p>After the above was done and dust emissions were still above acceptable limit the kiln was stopped.</p> <ul style="list-style-type: none"> <li>• Repair work was carried out at the site on the bag filters, cages and filter housing.</li> </ul> <p>Following the work above dust emissions on 29<sup>th</sup>&amp;30<sup>th</sup> were less than 4mg/Nm3.</p>
Measures taken, or intended to be taken, to prevent a recurrence of the incident	<p>In addition to damaged bags identified from initial inspection more than 600 additional bags were replaced after the kiln was stopped.</p> <p>Work was carried out to free dampers to enable chamber isolation from control room.</p> <p>Further bag replacement and inspection work planned in for Jan 17 shutdown.</p>
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	<p>No complaints were received during whilst exceeding emission limits, and anticipated there would be minimal environmental impact from the emissions.</p>
The dates of any unauthorised emissions from the installation in the preceding 24 months.	<p>02/09/2014</p> <p>06/09/2014</p> <p>21/01/2015</p> <p>06/02/2015</p> <p>01/04/2015</p> <p>06/07/2015</p> <p>15/07/2015</p> <p>17/07/2015</p> <p>23/08/2015</p> <p>06/02/15</p> <p>01/04/15</p> <p>06/07/15</p> <p>15/07/15</p> <p>17/07/15</p> <p>23/08/15</p> <p>10/09/2015</p>

	15/10/2015
	07/12/2015
	02/01/2016
	13/02/2016
	14/02/2016

<b>Name*</b>	A Roberts
<b>Post</b>	Shift Manager
<b>Signature</b>	A Roberts
<b>Date</b>	26/08/16

\* authorised to sign on behalf of Castle Cement Limited