

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	20-10-2017 04.00HRS

(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	Main stack Kiln 4
Parameter(s)	Particulates
Limit	10Mg/Nm3
Measured value and uncertainty	13 Mg/Nm3
Date and time of monitoring	19.10.17 03:00 – 03:00 hrs 20.10.17 (start up period)
Measures taken, or intended to be taken, to stop the emission	The kiln was restarted following a two week shutdown at 0300hrs. On start up dust was trending high, and an investigation was started to determine the root cause.

	Due to being unable to resolve the issues with the main bag filter whilst running the kiln was stopped at 14.00hrs and an internal inspection of the filter bags was carried out. 30 bags in chamber 5a and 5b were identified as being damaged and were replaced with new, the kiln was restarted at 2150hrs and the dust came down to within limits but was in breach when the 24hr average was calculated.
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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>The kiln was started at 03:00 following a two week shutdown. Upon start up the particulate emissions were roughly 15mg/Nm³. This was significantly higher than the pre shutdown levels where the dust emissions had been roughly 5mg/Nm³.</p> <p>This difference indicated a problem in the main bag filter and an investigation was undertaken to try and identify where the issue originated. The sharp jump in emissions also indicated a deterioration of the filter in a discrete area. Therefore, identifying and replacement of bags / bags during operation would allow the emissions to be brought down within permit levels.</p> <p>The systematic isolation of individual compartments was carried out throughout the day to identify the problematic chamber.</p> <p>The decision was taken to stop the kiln at 14:00 when the issue with the filter was not becoming</p>
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	<p>apparent through opening and closing of the chambers, so a more thorough internal inspection of the filter was carried out during the afternoon.</p> <p>Over the next few hours bags inspected and approximately 30 suspect bags replaced.</p>
Measures taken, or intended to be taken, to prevent a recurrence of the incident	It is anticipated that there would have been minimum environmental impact from this breach.
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	During the January 2018 shutdown a major overhaul of the main bag filter is taking place. This is to include replacement of every bag and every cage in the filter with new. In addition to this fabrication work is being carried out to replace some corrosion prone areas with stainless steel to extend their lifespan.
The dates of any unauthorised emissions from the installation in the preceding 24 months.	07/12/2015 02/01/2016 13/02/2016 26/08/2016 24/11/2016 03/02/2017 30/03/2017 21/04/2017 08/05/2017 24/07/2017 14/08/2017 27/09/2017 28/09/2017

Name*	Robert Keough
Post	Q&E Manager
Signature	Robert Keough
Date	16/01/2017

* authorised to sign on behalf of Castle Cement Limited