

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	16/5/18 0510hrs

(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	16/5/18 0502hrs
Reference or description of the location of the event	Dust release from Pressure Relief valve of RHPC silo No. 14
Description of where any release into the environment took place	atmosphere
Substances(s) potentially released	150kgs
Best estimate of the quantity or rate of release of substances	Discharge occurred for around 1min
Measures taken, or intended to be taken, to stop any emission	Cement mill 3 was automatically shut down when the high level probe was activated
Description of the failure or accident.	Investigation found that when cement mill 3 was sending product to silo 14 the level monitoring equipment stopped registering when the silo reached 11ft. In normal operation the cement mill controllers/operators stop the running to the silo when it gets to around 9 to 10ft, the high-high level probe was activated but due to material in the system the silo level went slightly above its capacity and material escaped through the PV valve on top of the silo settling on top of the silo with a small amount running off the top of the silo and becoming airborne although quickly dissipating to ground level close to the silo without leaving the confines of the site boundary.

(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	
Parameter(s)	

Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	
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

<p>Any more accurate information on the matters for notification under Part A.</p>	<p>There are two measuring devices in place to prevent over filling of the silos. One is a level probe which shows the current height of material in the silo, and is used for stock control. The other is physical probe at the top of the silo with a 1m paddle. This physical probe indicates the silo is nearly at max capacity.</p> <p>The level probe is programmed to warn operators that the silo is nearly full, when there is 10ft of space remaining, by activating an alarm. When the level probe reaches 7ft of space remaining then it automatically turns of the mill which is feeding the silo.</p> <p>Using the alarms on the level probe in this way should prevent overfilling on the silo.</p> <p>The physical paddle probe is a backup to the level probe, in case of its failure. When the physical level probe is activated by material touching it, it also stops any mills into the</p>
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	<p>silo. This is seen as a failsafe to the level probe.</p> <p>On this occasion the physical paddle probe was reached by the material and the mill was stopped, however, not alarms were indicated on the level probe.</p> <p>This meant that the level probe was working incorrectly as it had not alarmed. Upon investigation it was found that although the physical probe was activated, meaning there was 1m of space in the silo, the level probe indicated 11ft of space remaining in the silo.</p> <p>Although the physical probe stopped mill operation, the mill transport system, which delivers material from mill outlet to the silos, continued to run.</p> <p>This is standard practice on all silos, as it prevents blockages in the transport system if they were to be stopped full of material.</p> <p>As silo 14 has less capacity than other silos at the site the continue running of the transport system led a slight overfilling of the silo, as cement continued to be delivered for approximately 10mins after the mill had stopped.</p>
<p>Measures taken, or intended to be taken, to prevent a recurrence of the incident</p>	<p>The silo level probe was inspected, cleaned and put back into action.</p> <p>The alarm levels on the level probe have been adjusted to stop the mill at lower volumes in the silo.</p> <p>The level probes in this silo and four others will be upgraded to a new more reliable best available technology. (This was already planned but will now be expedited at a cost of £15k in July 2018)</p> <p>An interlock for the physical high level will be put in place so if it is reached then the probe will not only stop the mill but also the transport system. This will prevent material continuing to be delivered to the silo after the mill has stopped. This has been put into</p>

	place for all silos which have the same capacity of silo 14. It was deemed as not necessary on other silos, as 1m of space in the head of the silos will be more than sufficient to allow the transport systems to empty.
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	A clean up of the top of the silo is planned the top of the silo. There were no complaints received off site in regards to this incident and it is believed that most material was contained on site.
The dates of any unauthorised emissions from the installation in the preceding 24 months.	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 19/10/2017 23/10/2017 03/11/2017 04/11/2017 13/12/2017 21/12/2017 14/01/2018 21/02/2018 28/02/2018 03/03/2018 20/03/2018 04/05/2018 16/05/2018

Name*	Robert Keough
Post	Q&E Manager
Signature	
Date	21/06/18

* authorised to sign on behalf of Castle Cement Limited