

30/04/2017

Hope Cement Works

Hope,

Hope Valley,

Derbyshire

S33 6RP

Subject: Hope works Environment permit - EPR/BP3731VJ - Progress report for permit improvement condition IP 16

Dear Leonie,

I am writing to provide the requested progress report on improvement condition IP 16.

In relation to our current performance against the current BAT-AEL our cement kiln SO₂ daily averages are as follows:

SO₂ daily average Emissions 2017			
Kiln One	% <1760mg/m³	% <850mg/m³	% <400mg/m³
January	100	100	44
February	100	100	60
March	100	100	0
April MTD	100	100	35

SO₂ daily average Emissions 2017			
Kiln Two	% <1760mg/m³	% <850mg/m³	% <400mg/m³
January	Shutdown	Shutdown	Shutdown
February	100	100	44
March	100	100	3
April MTD	100	100	42

We are managing the raw material chemistry and limited PFA availability to control this.

In terms of our progress towards achieving planning permission and installing the necessary infrastructure for increasing shale substitution. We are currently assessing multiple technologies in parallel. Some of these technologies are yet to be proven at an industrial level but have great potential. The evaluation of these technologies will take a number of months and will determine whether or not planning permission will be required at Hope. We have approved in principle capital expenditure for this initial evaluation.

As stated above the multiple technology options are being evaluated in parallel in order to keep implementation timescales to a minimum however, we are still at a relatively early stage in the project and future updates will provide more detail as the project progresses. We do not believe we need to adjust any time scales at this moment.

% PFA Addition to raw mix 2017 - Target 8%		
	Actual	Kiln/s
January	8.65	1
February	5.25	1 & 2
March	0.4	1 & 2

The level of substitution of PFA in our raw mix YTD is currently 4.8% which is roughly a third less than planned. This substitution level has been driven by limited availability due to rapidly changing electricity generation fuel mix in the UK, and also by our shale composition. A trial of the use of other potential materials having a similar chemical composition is also in progress, the results of which will be reviewed and included in further updates.

Yours sincerely

James Breen

EHS Manager – Hope Cement