

## Information note regarding Irish Cement Ltd. P0029-05

### Update 18/04/18

This information note is issued as a follow up to the information note issued on the 26/06/17.

#### **Activities at Irish Cement:**

As part of Compliance Investigation CI001466 into dust emissions from Irish Cement, the EPA has monitored the implementation of the recommendations and associated timeframes from a “root and branch” analysis of activities onsite, submitted by the licensee on the 12/06/17. Remaining recommendations outlined below, were completed by the 05/03/18:

- Upgrade of the water spray system for quarry haul roads;
- Installation of a filter on the kiln hood/coolers, and
- Installation of a filter on the limestone intake hopper.

All recommendations have now been implemented by the site.

#### **Incident 03/12/17**

An incident occurred on the Irish Cement site at 10:15am on the 03/12/17, when a spillage of approximately 2.5 tonnes of ‘raw meal’ (mixture of naturally occurring limestone and shale, with minor additions of pulverised fly ash, iron ore and bauxite) resulted from a build up of material leading to a blockage at the kiln inlet. The spill of material fell approximately 9m from underneath the Kiln inlet to the ground below.

The kiln was shut down and 2.5 tonnes of raw meal was cleaned up. The EPA carried out a site investigation following this incident on the 04/12/17. As part of this investigation the EPA took samples of dust from the spillage area onsite and from complainant’s cars. A non compliance was issued to Irish Cement for emissions of dust to the atmosphere, associated with the activity, resulting in an interference with the amenities beyond the installation boundary. The Agency received 22 complaints relating to dust on cars and property.

A notification of this incident was published on the EPA website on 11/12/17. The details of this notification can be viewed [here](#).

#### **Site investigation report in response the above incident**

Following this incident, a detailed investigation report was submitted to the EPA by the licensee on the 19/01/18. Preventative actions have been put in place to prevent a reoccurrence of this incident; and are outlined below:

- Secondary containment has now been installed to contain a spill of material at the Kiln inlet should it arise;
- An updated Preheater Tower cleaning procedure has been put in place which contains additional checks;
- A material detection probe for the secondary containment underneath the Kiln inlet has been installed;

- An additional pressure transmitter was installed in the riser section of the preheater tower. This pressure probe will help in the detection of pressure changes in this area;
- CCTV has been installed in the area, and
- Cardox socket points have been installed in the area where the build-up occurred. Cardox is used to dislodge build up material in areas of the preheater tower.

***In response to the above incident the EPA also required the following:***

***1. Root and Branch analysis of all process lines onsite***

A root and branch analysis of all process lines onsite was submitted to the EPA on the 19/01/18. Implementation of the recommendations from this report was monitored as part of Compliance Investigation CI001466 into dust emissions from Irish Cement. These recommendations are outlined below.

- Quarry: Installation of a sprinkler system over the quarry intake feeder.
- Blendomat: Secondary containment at top of pulverised fly ash offloading pipe is to be installed. Sheet back of 63108 conveyor in Blendomat building.
- Raw mill: For 63201 airslide – installation of double clamps on all covers. Fixed piping for air to airslide to be installed.
- Kiln: Kiln Feed gates - completely enclose area covering bottom of both silos and Kiln feed screw conveyor. Review kiln stack interlocks as part the new emission limit values for Licence Revision Number P0029 – 05.
- Coal Mill: Review coal mill stack interlocks as part the new emission limit values with Licence Revision Number P0029 – 05.
- Cement Mills: Pulverised fly ash offloading pipe to cement mills -secondary containment at top of pulverised fly ash offloading pipe to be installed.

All the above improvements were completed by the 12<sup>th</sup> April 2018.

***2. Installation of an additional ambient particulate monitor onsite***

In March 2018, an additional ambient particulate monitor was installed in the proximity of silo 8, near the boundary of the site, which is to the East South East (ESE) of the installation. This location was found to have maximum predicted particulate concentrations (both 24 hour and annual) based on the results provided from the site's air dispersion model. This monitor will measure total particulates, PM10, PM2.5 and PM1. The existing ambient monitor remains in place.

***Revised licence P0029-05***

A revised licence, P0029-05, was issued on the 9th November 2017. This licence incorporates the requirements of Commission Implementation Decision 2013/163/EU, establishing the Best Available Technology (BAT) conclusions on industrial emissions for the 'production of cement, lime and magnesium oxide'.