



Client and Application:

Lafarge North America has offices in approximately 900 locations with main offices in Chicago, IL, Calgary, AB and Toronto, ON. Lafarge products-cement, ready-mix concrete, aggregates, asphalt, and related products-are essential in creating the structures that shape our landscape.

The Bath plant is located on the North Shore of Lake Ontario, and occupies approximately 1050 hectares of land. It is home to 105 employees, and, on any given day, employees from up to 60 contract firms may also be on site. The Plant's cement kiln is 200 meters long, and measures 5.5 meters in diameter. It is capable of producing 1.1 million tonnes of cement each year. At its hottest point, the temperature inside the kiln is 1450 degrees celcius. To protect the kiln's shell from this heat, it is lined with refractory bricks. To line a kiln of this size, it takes approximately 180,200 bricks.

This plant has decided to use wood for generating a portion of the heat. Therefore, they needed a dust removal solution for the conveyors. The system needed meet the following criteria:

- Comply with NFPA and Ontario Fire Codes
- Fast delivery and easy to install
- Easy to maintain and complete with all controls and alarms

Solution:

Dust is captured at source by using multiple capture hoods on the tunnel of the conveyor. Once the dust is captured, it is transported through rigid ductwork with high velocity (4000 FPM). The main header is connected to a 5,500 CFM 64FS8 baghouse dust collector.

Equipment:

- One (1) 64FS8 baghouse dust collector with online/offline reverse-pulse filter cleaning system (Delta P Plus system)
- One (1) RBE-17 backward inclined blower with 25HP TEFC motor including inlet box
- One (1) 16"Ø NFPA and Atex compliant inlet explosion isolation flap (Q-Flap) with monitoring panel
- One (1) NFPA and Atex compliant flameless explosion vent with (Q-Box) burst indicator
- One (1) NFPA compliant Rotary airlock

Installation video and pictures:

Please click on the first picture below to play:



Industry:

Cement Producer

Contact:

For an update on the performance of the system, please contact:

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