



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, ILLINOIS 60604**

DATE: DEC 28 2015

SUBJECT: CLEAN AIR ACT INSPECTION REPORT
Skyway Cement Company LLC- Chicago, Illinois

FROM: Patrick Miller, Environmental Engineer
AECAB (MN/OH)

THRU: Brian Dickens, Section Chief
AECAB (MN/OH)

TO: File

BASIC INFORMATION

Facility Name: Skyway Cement Company LLC (Skyway)

Facility Location: 3020 East 103rd Street, Chicago, Illinois 60617

Date of Inspection: December 19, 2015

Lead Inspector: Patrick Miller, Environmental Engineer, US EPA

Other Attendees:

1. Linda Rosen, Environmental Engineer, US EPA
2. Emmanuel Adesanya, Inspector, City of Chicago
3. Andy Hixson, Plant Manager, Skyway

Purpose of Inspection: Southeast Chicago monitoring results from KBCX North Terminal

Facility Type: Slag grinding

Arrival Time: 8:55am

Departure Time: 11:45am

Inspection Type:

- Unannounced Inspection
 Announced Inspection

OPENING CONFERENCE

- Credentials Presented
- CBI warning to facility provided

The following information was obtained verbally from Andy Hixson unless otherwise noted.

Company Ownership: The facility was formerly owned by Holcim. In the summer of 2015, Holcim and Lafarge merged. As a result of the merger Holcim had to sell duplicate facilities. The facility was sold on July 11, 2015 to Eagle Materials Inc., which is headquartered in Dallas, Texas.

Process Description:

The facility processes granulated blast furnace slag. The granulated slag arrives via truck and is stored outside in piles. The slag is dumped through a grizzly screen, which screens out larger objects, onto a conveyor to a shaker screen. The shaker screen removes larger objects that could have passed through the grizzly screen. The shaker screen is uncovered but can be covered with a tarp under extremely dry conditions. The slag arrives with a very high moisture content and there are more concerns of plugging the screen rather than fugitive dust emissions. After the shaker screen, the granulated slag travels via covered conveyor to day bins to provide a constant feed for operations. These are the only outside operations.

There are four main baghouses, including the mill vent baghouse, mill nuisance collector, polycom nuisance baghouse, and product baghouse. Each baghouse has particulate detectors that operate similarly to continuous opacity monitors (COMS). The particulate detectors are not certified as COMS though. There have been no noticeable opacity issues from these baghouses.

A water truck is used in the yard during dry and windy conditions, typically in the summer. A contractor uses a wet sweeper on the roads inside and just outside the facility on Monday and Thursday each week, except during the winter months.

KCBX contacted Skyway on at least three separate occasions (September 3, 2015, September 8, 2015, and October 19, 2015) in response to high readings from the ambient air monitors at the KCBX North Terminal. Skyway could not identify any operations or activities that contributed to the high readings on September 3, 2015.

On September 8, 2015, Skyway filling in potholes on the gravel turnaround area for inbound trucks just outside of the facility. The gravel turnaround area is located southwest of the ambient air monitor located in the southwest corner of KBCX's property. After being contacted by KCBX, Skyway used their water truck to water the fresh gravel.

On October 19, 2015, the contractor, used by Skyway for street sweeping and to maintain the roadways, was using a street sweeper and leaf blower on the gravel near the turnaround area. Skyway directed the contractor to stop once contacted by KCBX about high readings from the ambient air monitors.

TOUR INFORMATION

EPA toured the facility: Yes

Data Collected and Observations:

EPA asked to see granulated slag dumped into the grizzly screen so material can be fed into the shaker screen and conveyed to the day bins. No visible emissions were observed during the two dumps witnessed by EPA.

All operations except truck and barge loading were observed by EPA.

Field Measurements: were not taken during this inspection.

RECORDS REVIEW

- No records were reviewed on-site


CLOSING CONFERENCE

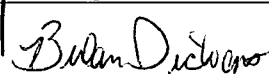
Collected documents:

- Three process flow diagrams collected during the inspection were claimed as CBI.
- Emails from KCBX dated September 3, 2015, September 8, 2015, and October 19, 2015 regarding high monitor readings.

Concerns: EPA reiterated the fact that there were concerns with potential operations at Skyway Cement and high readings from the ambient air monitors located on the KCBX North terminal since operations ceased and pet coke was removed by KCBX in June 2015.

SIGNATURES

Lead Inspector:  Date: 12/23/15

Section Chief:  Date: 1/5/16

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APPENDICES AND ATTACHMENTS

- Appendix A- Photo Log

Contains Items Claimed as CBI – Non-Releasable

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CONFIDENTIAL BUSINESS INFORMATION

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Facility Location: 3020 E 103rd Street, Chicago, IL 60617

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Three process flow diagrams were collected during the inspection.

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APPENDIX A: PHOTO LOG

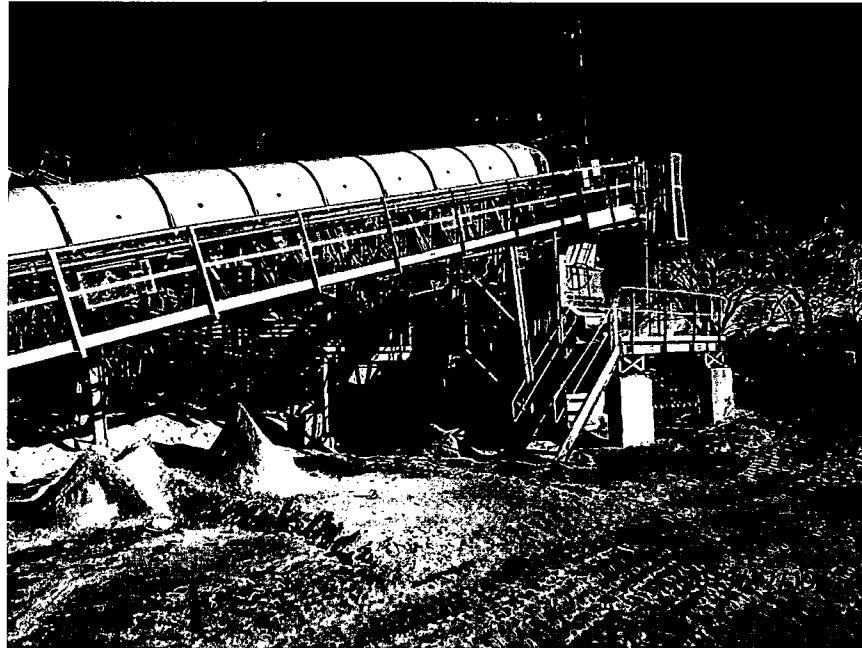


Figure 1 Covered conveyor to shaker screen

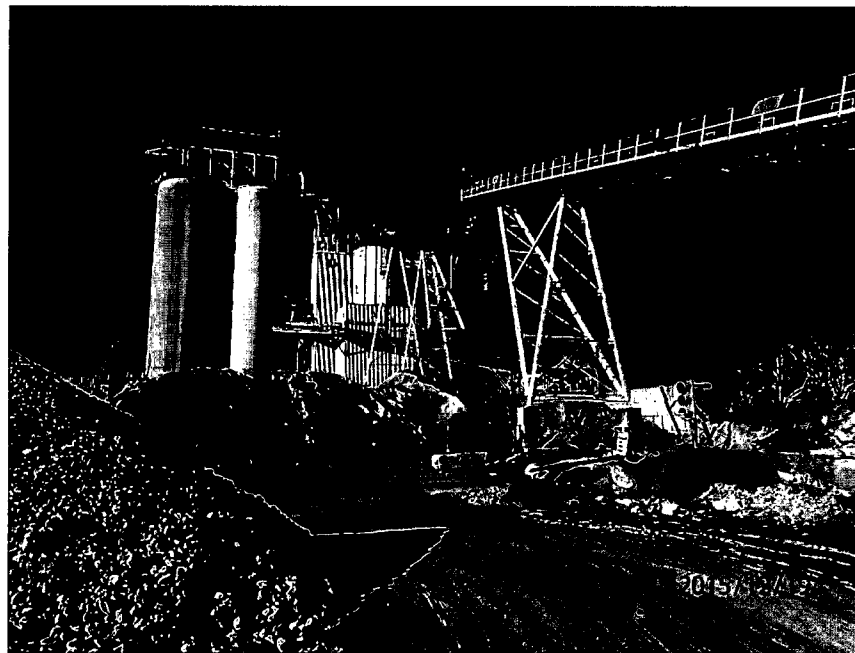


Figure 2 Granulated slag storage piles and covered conveyor to day bin



Figure 3 Granulated slag being dumped into grizzly screen

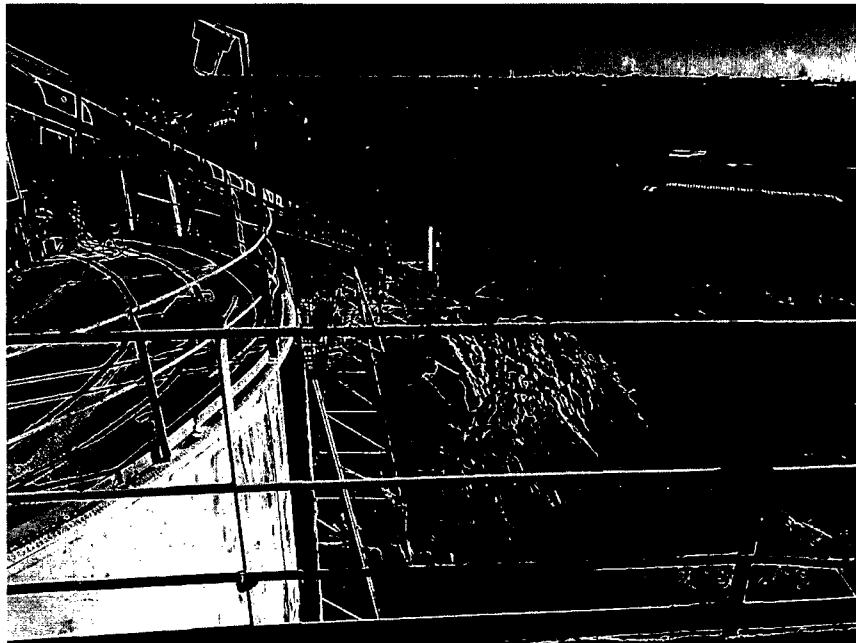


Figure 4 The yard with granulated slag piles and conveyors

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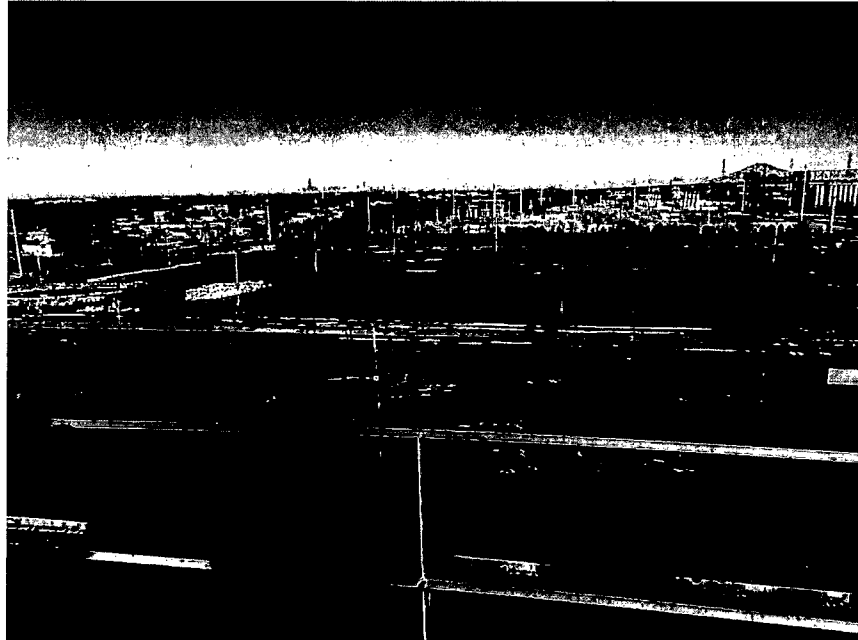


Figure 5 KCBX North terminal from Skyway Cement

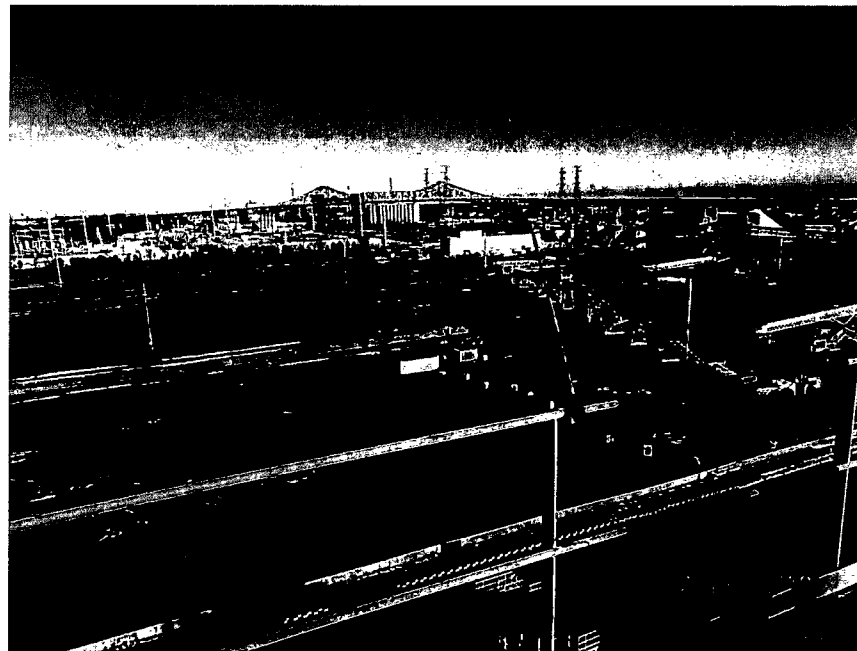


Figure 6 KCBX North terminal from Skyway Cement

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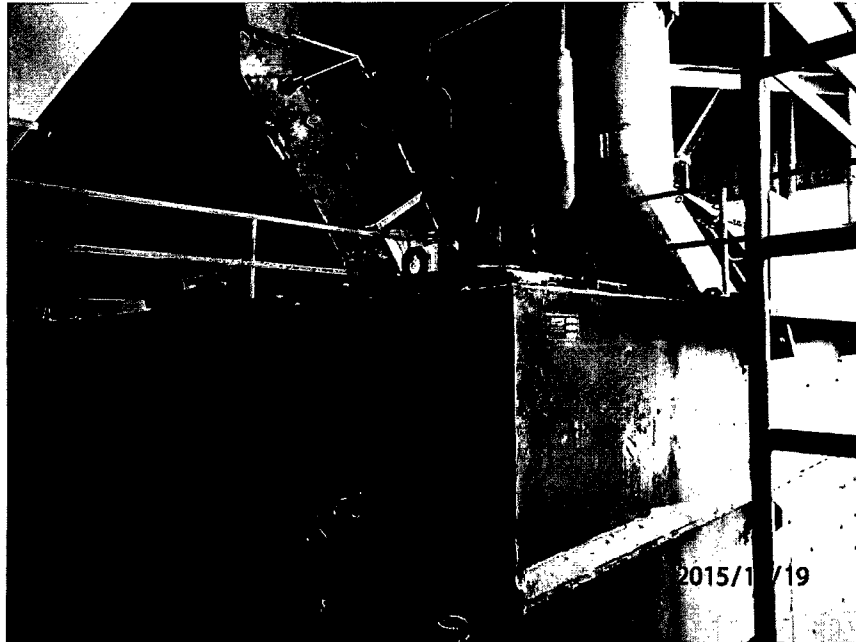


Figure 7 Polycom nuisance baghouse



Figure 8 Crushed slag separator

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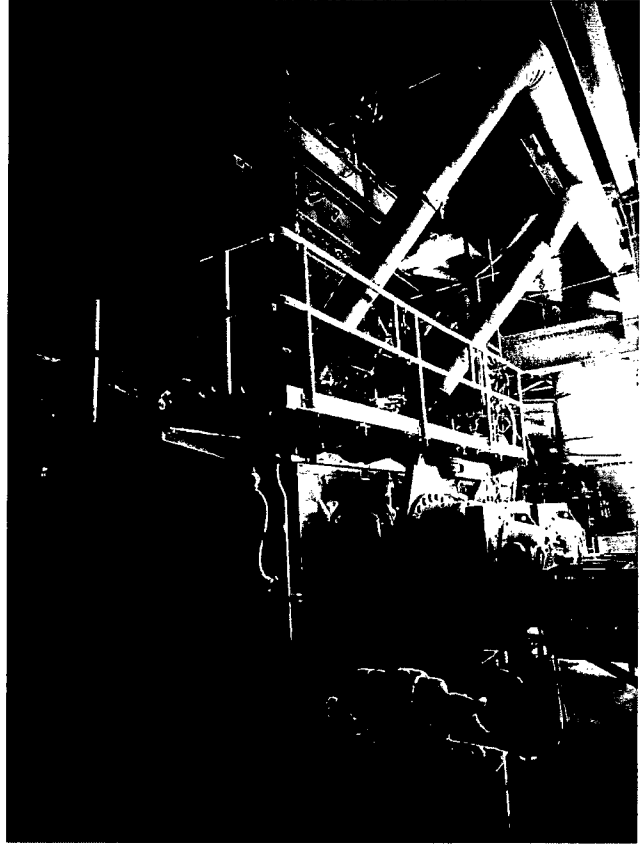


Figure 9 Slag pre-grinder

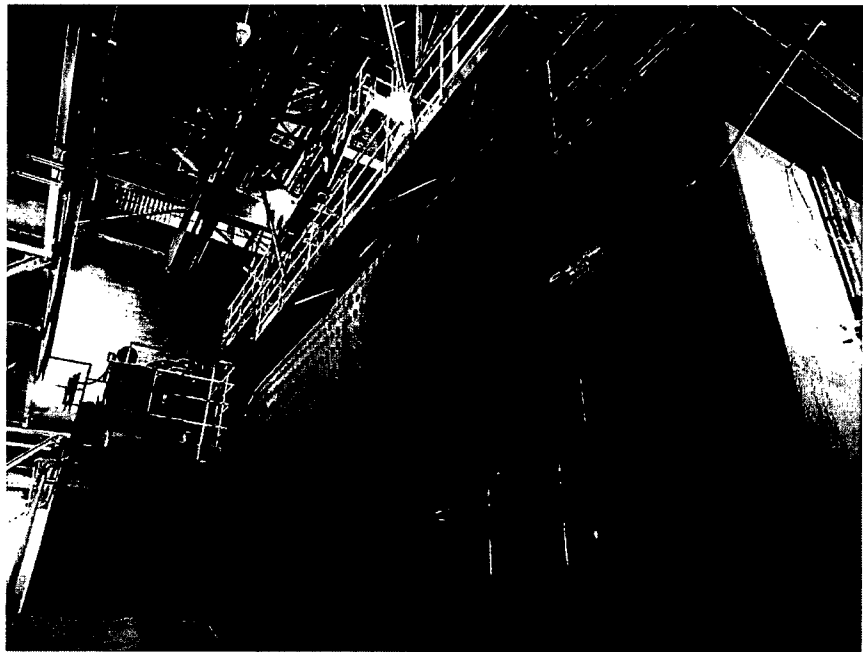


Figure 10 Ball mill

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Figure 11 Gravel turnaround area for trucks outside of Skyway Cement

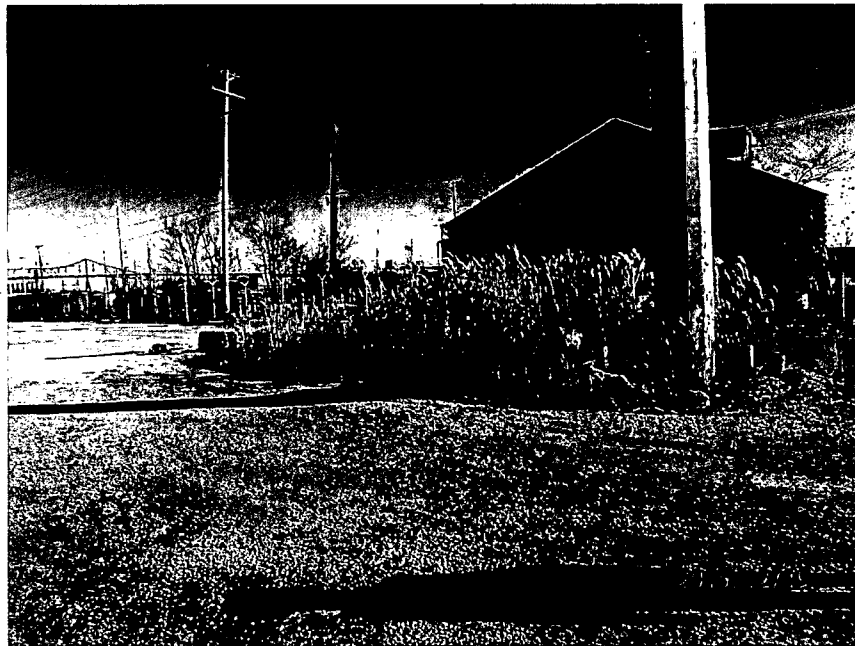


Figure 12 Gravel turnaround for trucks outside of Skyway Cement



Figure 13 Gravel turnaround area outside of front gate of Skyway Cement

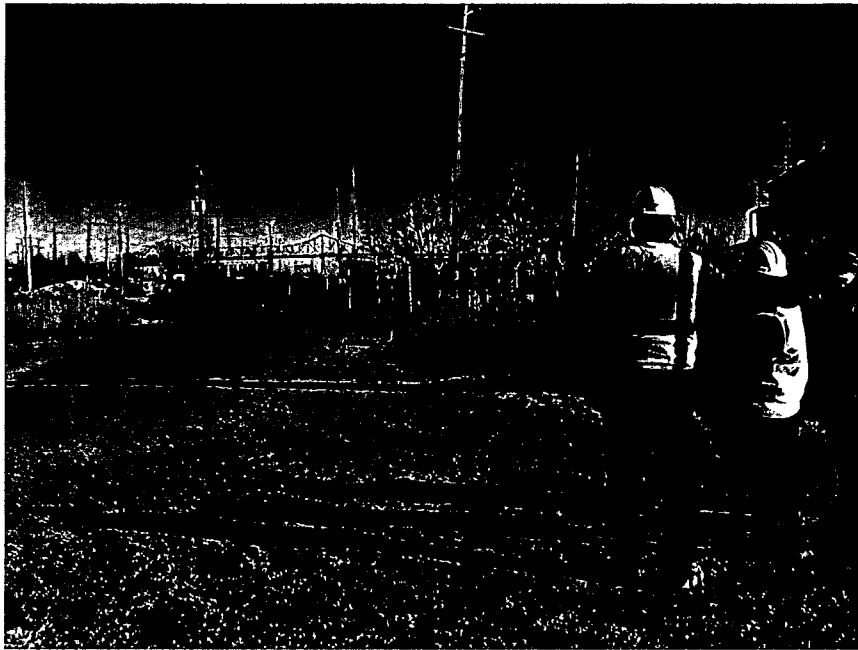


Figure 14 Gravel turnaround area outside Skyway Cement

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Figure 16 Gravel turnaround area with ambient air monitor in background