

DEPARTMENT OF ENVIRONMENTAL QUALITY  
AIR QUALITY DIVISION  
ACTIVITY REPORT: Scheduled Inspection

N628325336

FACILITY: AGGREGATE INDUSTRIES - Day Road		SRN / ID: N6283
LOCATION: 15215 Day Road, DUNDEE		DISTRICT: Jackson
CITY: DUNDEE		COUNTY: MONROE
CONTACT:		ACTIVITY DATE: 05/28/2014
STAFF: Erik Gurshaw	COMPLIANCE STATUS: Compliance	SOURCE CLASS:
SUBJECT: 2014 Inspection		
RESOLVED COMPLAINTS:		

SRN: N6283

COMPANY: Aggregate Industries-Dundee Plant

COMPANY ADDRESS: 15215 Day Road; Dundee, MI 48131

PURPOSE OF INSPECTION: Targeted

CONTACT PERSON: Mr. Frank O'Laughlin, Environmental Manager (Cell: 847-417-1755; Email: folaughlin@meyermaterial.com)

COMPANY PHONE NUMBER: 734-529-5876

Introduction

On May 28, 2014, AQD staff, Erik Gurshaw, conducted a targeted, unannounced inspection of Aggregate Industries' Dundee Plant located at 15215 Day Road in Dundee, Michigan. The purpose of the inspection was to determine compliance with the Federal Clean Air Act; Article II, Part 55, Air Pollution Control of Natural Resources and Environmental Protection Act, 1994 Public Act 451; Michigan Department of Environmental Quality, Air Quality Division (MDEQ-AQD) Rules; NSPS Subpart OOO for Non-Metallic Mineral Processing Plants; and General Permit-to-Install (PTI) #135-97 for a non-metallic mineral crushing operation.

Upon arrival at the site, AQD staff introduced himself and stated the purposed of the visit to Mr. George Lukas Jr., Site Manager (Cell: 734-216-2949). Mr. Lukas assisted AQD staff during the inspection. Mr. Lukas indicated that the Dundee plant is currently operating 70 hours a week Monday through Saturday. Operation of the crushing plant is seasonal. The plant crushes limestone mined from Holcim's Dundee Quarry into 21AA, 23AA, 21 commercial, 23 commercial, 4A, 1" x 3", 6A commercial, 6A, 6AA, ¼" chip, #9s, and ag lime aggregate. The processed material is sold to local building and road contractors. Equipment at the location includes the following: 1 primary jaw crusher; 1 secondary impact crusher; 1 tertiary cone crusher; 22 conveyors; 9 stackers; 5 screens; 2 Caterpillar 988F wheel loaders; 1 Caterpillar 980G wheel loader; 1 Caterpillar 980I wheel loader; 1 Caterpillar 345 excavator; 1 Caterpillar 262 skid steer; a Volvo haul truck; a water truck; and a Caterpillar Model 3412 455 kW emergency generator. The emergency generator is subject to MACT Subpart ZZZZ for reciprocating internal combustion engines, but the AQD has not accepted delegation for this subpart at area sources of HAP emissions. Crushing was taking place at the time of the inspection.

Process Description

Aggregate Industries' Dundee Plant processes limestone mined at the Holcim Dundee Quarry by loading the material into a feeder with a wheel loader. From the feeder, the material is crushed in the primary jaw crusher and conveyed to a surge tunnel and then to a triple deck screen. 21 commercial, 23 commercial, 4A, 6A commercial, and 1" x 3" aggregate are screened out in the triple deck screen and conveyed to a storage pile via a stacker. Different sizes of aggregate can be produced by changing the screens within the triple deck screening unit. Material greater than 1.5" in diameter is conveyed to a secondary impact crusher and then to a tertiary cone crusher with an incorporated double deck screen. 21AA and 23AA aggregate are caught up in the first deck of this screen and conveyed to another single deck screen which the company calls the "PEP Plant." The PEP Plant separates fine grained lime dust from 21AA or 23AA aggregate. Material other than 21AA and 23AA aggregate is filtered out in the second deck of the screen and is continuously recycled back to the

cone crusher until it reaches the desired size. 21AA or 23AA aggregate is generated by changing the screens within the cone crusher's double deck screen. If the company is not making 23 commercial aggregate, material is conveyed to a 5' x 16' double deck screen after the triple deck screen stage discussed above. This double deck screen separates fine lime dust from coarser stone (less than 1" in diameter). The fine lime dust is conveyed to a storage pile via a stacker and the coarse stone is conveyed to a wash plant where 6A commercial, 1/4" chip, and #9s aggregate are produced. When the facility makes 6AA aggregate, the PEP Plant stage is not used and material is instead sent to the 5' x 16" double deck screen. Fine lime dust is then separated from 6AA aggregate in the 5' x 16' double deck screen.

#### PTI #135-97 Compliance Determination

AQD staff observed no visible emissions from the crushers, conveyors, stackers, storage piles, or material handling operations during the inspection. The plant's equipment is either exempt from (grandfathered) or has been evaluated for visible emissions as required by NSPS Subpart OOO. The company has a binder on site which indicated that Fishbeck, Thompson, Carr, and Huber evaluated the NSPS-subject equipment for visible emissions at various points in the plant's history. Potential fugitive dust production from the plant is controlled by the application of water at the outlet to the crushers, at the screens, and along some of the plant's conveyors and transfer points. The company is abiding by the Fugitive Dust Control Plan in Appendix A of its permit. Specifically, the following measures are being taken by the plant to control fugitive dust: the drop distance at each transfer point and storage pile is being minimize; all vehicles are covered before leaving the site; a truck applies water to the roadways and plant yard whenever necessary; calcium chloride is applied to the roadways and plant yard 4 or 5 times a season by Suburban Oil; material spills are immediately cleaned up; and the time and date of each water application is being recorded. The plant has the capability of relocating, but the company has no intention of using it in a portable manner. 2012 and 2013 production records obtained from the company indicate that the plant processed 401,000 tons of material in 2012 and 512,000 tons of material in 2013. Yearly production rates are determined from daily operator logs. 2012 and 2013 production rates are well below the 2,000,000 ton processing limit established in the PTI. No asbestos-containing materials are processed by the plant and no equipment modifications have been made in recent years. The company is maintaining a copy of its PTI in the operator's office and the plant is located more than 500 feet away from any houses, commercial establishments, or places of public assembly. All of the plant's equipment was labeled as required by its PTI.

As a result of this inspection, it was determined that Aggregate Industries' Dundee Plant is in compliance with its PTI and all other applicable air rules and regulations. 2012 and 2013 production records and a schematic of the plant's processes and layout are attached to this report.

NAME Erik Hurshaw

DATE 6/3/13

SUPERVISOR 