

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

B492235949

FACILITY: STONECO INC, Ottawa Lake		SRN / ID: B4922
LOCATION: 7555 Whiteford Rd, OTTAWA LAKE		DISTRICT: Jackson
CITY: OTTAWA LAKE		COUNTY: MONROE
CONTACT: SUSANNE HANF , ENV ENG		ACTIVITY DATE: 08/10/2016
STAFF: Zachary Durham	COMPLIANCE STATUS: Compliance	SOURCE CLASS: SM OPT OUT
SUBJECT: Scheduled, unannounced inspection of PTI 122-05D.		
RESOLVED COMPLAINTS:		

Contact

Sue Hanf
Environmental Engineer
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Purpose

This was a scheduled, unannounced inspection of the equipment operating at the quarry owned and operated by Stoneco under Permit to Install (PTI) 122-05D. I arrived at the site at about 12:20pm on 8/10/2016 and was greeted by Mark Parran. During the course of the inspection I also met with Sue Hanf, whom provided me with the records I requested. The inspection included the observation of a blast as well as a driving tour of the quarry.

Background

Stoneco owns and operates many quarries around the State of Michigan. This quarry is used to mine limestone, much of which is used by their clients in the production of concrete pavement. This site has been relatively active lately due to the numerous highway construction projects underway, especially the I-75 corridor.

Operations include process equipment for crushing stone to smaller aggregate (i.e. crushers, screens, conveyors, etc.), truck and heavy vehicle traffic, storage piles, and blasting. The site includes two crushing plants; primary and secondary. During the inspection, only equipment associated with the secondary crusher was operating.

This facility is a Synthetic Minor source of particulate matter (PM), which is why their PTI identifies opacity limits, design requirements, and operational restrictions in order to stay below thresholds of a major source. In order to demonstrate compliance, this facility submits records annually to the Michigan Air Emission Reporting System (MAERS). The 2015 MAERS was audited on 6/7/2016 by Diane Kavanaugh Vetort and found to be in compliance with their PTI.

Additionally, this facility is subject to the New Source Performance Standard (NSPS) in 40 CFR Part 60, Subpart OOO for Nonmetallic Mineral Processing Plants.

Compliance Evaluation**EUTRUCKTRAFFIC**

This is the emission unit (EU) for delivery truck traffic and loader vehicles associated with processing equipment, material handling, and loading/unloading activities. Visible emissions (VE) are limited to 5% opacity from these types of vehicles. In order to meet this condition unpaved roadways are treated with a chloride solution and watered as needed. VEs exceeding 5% were not observed during the inspection.

The facility is limited to the equivalent of 80,000 – 50 ton transport trucks over a 12-month rolling time period. Attached is the 12-month rolling spreadsheet that tracks truck axles, which was the equivalent of 55,155.7 trucks as of June 2016. I also observed the wheel wash system in place that is required under this section of the permit. Mark also stated that they contract services through Progressive Sweeper to have the paved areas

swept 3-4 times per week.

EUPROCESS

This is the EU that covers process equipment including crushing, screening, and conveyors, which are used to reduce materials to smaller sizes. They operate two crushing plants, primary and secondary, of which only the secondary was running during the inspection. VEs are controlled by water sprays attached to the equipment, and were running on the secondary plant while operating. The standards set forth in NSPS OOO appear to be met as they apply to this facility; in particular the water controls are eliminating VEs from the process.

Stoneco is limited to 4,000,000 tons of material on a 12-month rolling time period at this site. Attached is their 12-month rolling production spreadsheet, indicating that throughput as of June 2016 is 2,469,733.94 tons of material for the last 12 months. Additionally, per Mark Parran, the facility does not process any materials containing asbestos.

EUSTORAGE

This is the EU for storage piles on site, which include the various sized aggregate piles. The initial product is dampened from spray bars as it goes through processing, but is maintained with a water spray as needed before loaded out. The limit of 5% opacity as written in this condition was being met during the inspection. The facility appears to be following the fugitive dust plan in Appendix B of the permit as it pertains to storage piles.

EUBLASTING

This is the EU for the use of explosives to loosen limestone for excavation and processing. Attached is a recent blast report that includes date, time, square feet of blasted area, and number of blasts. Stoneco does not perform more than 1 blast per day nor over 20,000 square feet at a time. The blasts are conducted within 100 feet of the property. During the inspection I observed a blast that was representative of those on the blast report and occurred at about 12:40pm.

FGFACILITY

This is the flexible group (FG) for all process equipment source-wide. The only special conditions of this section are that the entire working part of the quarry is surrounded by either fence or berm and that process equipment not be operated within 300 feet of the property line. These conditions are being met.

Summary

After arriving on site and introducing myself to Mark, we proceeded to his truck and drove to an area within view of the blasting site. The blast occurred at about 12:40pm. The face being blasted fell and a cloud of dust was present, though settled quickly back to the ground without much visibly blowing off site. Mark indicated that most of the stone is fairly wet, which helps for initial processing.

Next, we started the drive through of the facility where we saw the active blasting site, the primary plant (not running), secondary plant (running, no VEs), wheel wash, and control tower. There were trucks in and out of the facility during my entire inspection and I observed them following speed limit signs and the using the wheel wash before exiting the facility yard. Near the control tower we spotted Sue, whom Mark wasn't sure was on site until then, so we stopped to inform her of the inspection I was conducting. Sue is responsible for handling the records of the Stoneco facilities, so I requested records at that time.

Having seen the plant yard and requested the necessary records, Mark and I headed back to the front office area adjacent to the plant entrance. I then left the facility.

Sue Hanf provided me the requested records via email on 8/10/2016.

Compliance Determination

After an on-site inspection and review of recordkeeping, and combined with a passing 2015 MAERS audit, I have determined that this facility is in compliance with PTI 122-05D.

NAME Fack Durham DATE 8/15/16 SUPERVISOR 