

P0558
MANILA

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

P055839504

FACILITY: ADAMO DEMOLITION CO - FINTEC 1107 CRUSHER		SRN / ID: P0558
LOCATION: 320 E SEVEN MILE ROAD, DETROIT		DISTRICT: Detroit
CITY: DETROIT		COUNTY: WAYNE
CONTACT: Denise Danneels , Office Manager		ACTIVITY DATE: 04/13/2017
STAFF: C. Nazaret Sandoval	COMPLIANCE STATUS: Compliance	SOURCE CLASS: SM OPT OUT
SUBJECT: Scheduled Inspection FY 2017		
RESOLVED COMPLAINTS:		

I. FACILITY BACKGROUND

Adamo Demolition Company (hereinafter Adamo) is part of the Adamo Group with headquarters at 320 East 7 Mile Road, Detroit MI 48203.

Adamo's main business is the demolition of residential, industrial and commercial structures. The company owns heavy machinery utilized to conduct demolition work.

The subject of this inspection is a Non-Metallic Mineral Portable Crushing Plant identified as the Fintec 1107 Portable Jaw Crusher owned by Adamo. The equipment manufactured in 2008, is a "stand-alone" portable primary crusher powered by a diesel engine. The crusher can be relocated more than once within a year period and the frequency and duration of the operations is determined by the type of projects and the scope of the jobs.

The Fintec 1107 operates under the General Permit to Install (PTI) No. 101-10 issued on April 29, 2010 by the Department of Environmental Quality (DEQ), Air Quality Division (AQD). The permit was updated and a modification was issued by AQD on June 29, 2016 to reflect the maximum rated capacity of the crusher per the manufacturer design value of 300 to 490 tons per hour for a wide open setting of the jaw.

II. EQUIPMENT DESCRIPTION

According to the technical data included in the manufacturer manual provided by Adamo, the main elements of the Fintec 1107 are:

- A Feeder/Feeder Hoper
- A Jaw Crusher
- A Power Unit with a Diesel and Hydraulic Tanks
- A Control Box
- Main and Side Conveyors

The Fintec 1107 is a track-mounted primary crusher system (i.e. Portable Plant) that has been designed to work in tandem with a Sandvic CJ211 1100 mm (44") x 700 mm (28") single -toggle, hydraulic wedge-adjust jaw crusher. The system is tough enough for quarry duty, yet it is fully transportable and designed to accept up to a 26-in wide feed, making it ideal for recycle and contract crushing.

According to the manufacturer, the performance of the Sandvic Jaws (i.e. estimated capacities in tons per hour -TPH -output) will depend on the "Closed Side Setting" (CSS). The minimum CSS at which the crusher can be operated depends on the feed size distribution,

the material's crushability, the degree of contamination and moisture in the feed, and the type of jaw plates fitted.

For the CJ211, the capacities will vary from 110-160 TPH in the closed setting (2 to 3 inches) and from 300 to 490 TPH with the setting wide open at about 8 inches.

For additional details about the Fintec 1107, the Sandvic CJ211 and the C9 – 350 BHP Diesel Engine, refer to the technical data information included with the inspection report for year 2016, which is kept in the AQD Detroit District facility files.

III. APPLICABLE RULES/PERMIT CONDITIONS

As indicated earlier, the operations of the Fintec 1107 are regulated under the state rules throughout the provisions and requirements specified in the General Permit PTI 101-10. Facilities that crush and process nonmetallic minerals can operate under a general permit to install if the following conditions are met:

- Crush no more than 2 million tons per year at any one site.
- Locate and operate their crusher a minimum of 500 feet from any residential or commercial establishment, or place of public assembly.
- Established and implemented a fugitive dust control program.
- Do not have any unresolved air quality enforcement violations with the U.S. EPA or the DEQ.
- Have an operation not currently covered under another company's permit to install.

Furthermore, as the maximum rated capacity of the portable Fintec 1107 Crusher exceeds 150 tons per hour, the equipment is subject to the federal Standards of Performance for New Sources (NSPS) for Nonmetallic Mineral Processing Plants at Title 40 of the Code of Federal Regulations (CFR) Part 60, Subpart OOO (40 CFR 60.670(a)(1) and (c)(2)).

The owner or operator of a nonmetallic mineral crusher subject to the NSPS OOO is required to conduct an initial VE test in conformance with 40 CFR 40 CFR 60.672(b) using the test methods and procedures specified at 60.675(a),(b)(2),(c) and (e). According to the records on file, the Fintec 1107 passed the initial VE test on September 9, 2010.

These requirements are incorporated into the PTI at Special Condition (SC) 1.8. As specified at 40 CFR 60.672(b), "affected facilities must meet the fugitive emission limits and compliance requirements in Table 3 of this subpart within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup".

AQD staff evaluated compliance with the provisions and requirements specified in the General Permit PTI 101-10 during the inspection conducted in 2016. The evaluation included the review of the production records, emission and material limits, equipment and process conditions, visible emission records, relocation notices, water records for fugitive dust control, etc. The results of the evaluation were addressed on the inspection report provided to the facility in 2016.

IV. INSPECTION NARRATIVE

On April 13, 2017, staff from the DEQ-AQD conducted an announced inspection of the Fintec 1107 Portable Jaw Crusher. The purpose of the inspection was to determine Adamo's

compliance with the requirements of the federal Clean Air Act; Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451); the administrative rules; and the conditions of the General Permit to Install (PTI) No. 101-10.

The inspection included a meeting with Adamo's personnel, Ms. Denise Danneels, General Office Manager; and Mr. Al Penrod, Maintenance Representative.

At the meeting, Ms. Danneels indicated that the crusher had not been used in 2016 and there were not any projects scheduled in the near future for its use. She confirmed December 2015 as the crusher's last date of use, as indicated by the relocation notices received by AQD Detroit District Office.

Mr. Penrod took me to the location of the crusher and I verified that the equipment was stored in the building's garage yard.

AQD could not evaluate compliance the permit to install requirements due to inactivity of the crusher during 2016 and the first quarter of 2017.

At the closure of the meeting AQD staff indicated that the focus of the inspection would be the resolution of the Violation Notice (VN) issued by AQD last year.

V. COMPLAINT/COMPLIANCE HISTORY

There is no history of complaints for the operation of this portable crusher.

VI. OUTSTANDING CONSENT ORDERS

NA

VII. RESOLUTION OF OUSTANDING VIOLATIONS

As a result of the inspection conducted on March 31, 2016 and the follow-up investigations, AQD staff identified a violation of R 336.1203(1)(a).

As indicated earlier, Adamo had applied for, and was issued PTI No. 101-10 for a nonmetallic mineral crusher. In 2010 the permit indicated a maximum rated capacity of 75 tons per hour for the Fintec 1107. However, the technical specifications for the Sandvik CJ211 Jaw installed on the portable Fintec 1107 Crusher indicated that the rated capacity varies depending of the opening of the jaw and can exceed 300 tons per hour at its wide open setting. Therefore, the rated capacity information provided in 2010 was incorrect and it did not correspond to the maximum rated capacity of the equipment permitted under PTI No. 101-10. Consequently, AQD issued a VN to Adamo on April 14, 2016.

Adamo responded to the VN with a letter dated April 29, 2016 received by AQD Detroit Office on May 3, 2016.

To resolve the VN Adamo requested a modification of PTI 101-10 to correct the maximum rated capacity for the crusher. The submittal to AQD Permit Section (dated June 1, 2016) included a revised EQP5756 form with the process information for the crusher .

AQD Permit Section issued a permit modification letter dated June 29, 2016 (attached) which officially stated that PTI 101-10 has been updated to reflect the revised maximum rated capacity of the crusher (Emission Unit ID No. 1107). The maximum design values specified by the manufacturer are: 300 to 490 TPH with the setting wide open at about 8 inches.

In addition, the VN requested justification for the selection of 40 tons per hour as a representative production rate for the crusher operation during the visible emission (VE) testing performed on September 9, 2010. AQD accepted the justification cited in Adamo's response letter. However, in the future, AQD will reexamine this issue by accessing the production rate at which the facility is generally operated to determine if another VE testing would be required.

The VN is considered resolved with the issuance of the "permit modification letter" by AQD Permit Section.

As of the date of this report there are not outstanding violations for this facility.

VIII. MAERS REPORT

The portable crusher was not used in 2016; therefore, the facility reported zero emissions on their MAERS submittal of February 6, 2017.

IX. FINAL COMPLIANCE DETERMINATION

The portable Fintec 1107 crusher was not in service during the inspection and it was not in operation during 2016. Therefore, production records, process operation conditions, visible emission and other permit requirements were not discussed or evaluated.

In this inspection AQD discussed the resolution of the violation notice that had been issued to the facility on April 14, 2016 due to the crusher rated capacity discrepancy. The issue was resolved with a modification to the Permit to Install 101-10 issued by AQD Permit Section effective June 29, 2016 (see attached). The letter indicated that the General PTI, identified as No. 101-10 has been updated to reflect the maximum rated capacity of the crusher.

At the completion of this report, the violation is considered resolved and the facility has returned to compliance.

NAME CA Andoral

DATE 4/28/17

SUPERVISOR JK