

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

N555124281

FACILITY: DETROIT STEEL TREATING CO		SRN / ID: N5551
LOCATION: 1631 HIGHWOOD EAST, PONTIAC		DISTRICT: Southeast Michigan
CITY: PONTIAC		COUNTY: OAKLAND
CONTACT: Raymond Fox , President		ACTIVITY DATE: 02/04/2014
STAFF: Rem Pinga	COMPLIANCE STATUS: Compliance	SOURCE CLASS: Minor
SUBJECT: Unannounced Level 2 Target Inspection		
RESOLVED COMPLAINTS:		

On 2/04/2014, I conducted an unannounced level 2 target inspection at Detroit Steel Treating Company located at 1631 Highwood East, Pontiac, Michigan 48340. The purpose of the inspection was to determine the facility'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 facility's Permit to Install No. 219-96. As part of the inspection process, I initially showed my credential (ID Badge), stated the purpose of my visit, and gave a copy of the pamphlet "Environmental Inspections: Rights and Responsibilities" to Mr. Robert Fox, facility contact person.

The facility conducts miscellaneous metal parts heat treat processes for customers in the automotive, aerospace, defense, agriculture, and other industries. Heat treating is a process to harden the metal by subjecting the metal in a two stage heat application processes. The first phase is called austertizing (hardening) process. In this process, the metal is subjected to high temperature such as 1300°F to alter the properties, then cooled rapidly through a cooling medium known as the quenching process. After the first heating stage, the metal is usually cleaned and then subjected to a lower temperature heating known as tempering process.

PTI No. 219-96 was issued for 2 molten salt baths and an open oil quench tank. Oil and salt solution are usually utilized as quenchant. According to Mr. Fox, the facility has not used the 2 salt baths for several years but the equipment are still installed. The only special condition in this permit is 20% opacity limit.

During the inspection, I did not observe any visible emissions both inside and outside the facility. I observed 3 hardening furnaces operating and noted the following temperatures: 1618°F, 1559°F, and 1060°F. I observed 6 tempering furnaces operating and noted 1114°F in one of the furnaces. The facility operates 2 sandblast and 1 handblast equipment with a dust collection system to capture and recycle sand in a bin outside the facility exempt from permit to install requirements per AQD Administrative Rule R 336.1285(l)(vi). I observed the 2 salt bath tanks still installed but appeared unused and the 7'x60"x60" open oil quench tank. I observed a rust prevention tank (black oxide) followed by 2 water rinse tanks and an oil coat tank, and another hot water parts washer tank exempt from permit to install requirements per AQD Administrative Rule R 336.1285(r). Mr. Fox estimates 300-350 tons per year materials processed.

Overall, I did not find any non-compliance issues during the inspection.

