

**DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION
ACTIVITY REPORT: Self Initiated Inspection**

N308126336

FACILITY: MERCURY MFG		SRN / ID: N3081
LOCATION: 1212 GROVE ST, WYANDOTTE		DISTRICT: Detroit
CITY: WYANDOTTE		COUNTY: WAYNE
CONTACT: Jerry Metcalf , Plant Superintendent		ACTIVITY DATE: 08/08/2014
STAFF: Gerald Krawiec	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: FY 2014 - Self Initiated Inspection		
RESOLVED COMPLAINTS:		

AQD Staff conducted a self initiated inspection at Mercury Manufacturing Company located in Wyandotte. The purpose of the inspection was to determine the facility's compliance with state and federal air pollution regulations. Janice Wiegand, President and Jerry Metcalf, Plant Superintendent accompanied AQD staff on the inspection.

Originally this began as a scheduled inspection of Crest Industries previously located at 3841 and 3855 13th Street. However, those two (2) buildings are now occupied by Mercury Manufacturing. Crest moved out of those buildings almost 10 years ago and Mercury purchased the property. All process equipment from Crest was removed.

FACILITY DESCRIPTION:

Mercury Manufacturing Company produces precision machined components and small complex assemblies. Applications mainly include refrigeration, compressors, HVAC, automotive, and trucks. Types of products include pressure relief valves, check valves, mechanical assemblies and precision machined components. The company is 50 years old and has been at the Wyandotte location about 41 years. As the business has expanded, the company purchased more land and now owns 4 separate buildings on the block. Hours of operation are generally two nine hour shifts, five days per week occasionally weekends have been worked. The business employs approximately 105 people.

PROCESS DESCRIPTION:

The inspection began in Building #1. Cold drawn steel is purchased as 12 foot bars and fed to one of four screw machines. Exhaust is drawn through an internal dust collector which exhausts inside of the plant. Three hot water washers and one mineral spirits washer are used on the parts. None of the washers exhausted to atmosphere. A CNC department is utilized for secondary operations on the parts such as drilling, milling, grinding, and lathing. Finally, parts are sorted and quality checked.

Building #2 is used for mechanical assembly and machining and also contains a mineral spirits washer. There is a tool room for repairing machinery and outside of the tool room are air compressors which vent warm air to atmosphere. In addition there is an enclosed room with five assembly machines for producing valves. None of the machines vented to the atmosphere. Dust collectors located in this build all discharge into the building.

Building #3 produces transmission shafts through broaching, induction heat treating, polishing, sorting, and packing. Mercury Manufacturing can add custom marking and engraving per customer specifications. As such, one part per day is etched to examine for quality assurance purposes. Dust collectors located in this build all discharge into the building.

Building #4 is used for secondary operations. Blank machines create the part and then the parts are sent to the valve room for further machining. A hot water washer and grit blasting equipment were present and did not vent outside. Some parts are sent off site for copper, nickel, or black oxide plating. Dust collectors located in this build all discharge into the building.

COMPLIANCE EVALUATION:

Parts washers appear to be exempt per Rule 285(r) and/or Rule 285(l)(iii)

Machining operations appear to be exempt per Rule 285(l)(vi)(B) and (C)

All dust collectors discharge into the building exempt per Rule 285(l)(vi)(B) and (C)

EVALUATION SUMMARY:

At the time of the inspection, this facility is in compliance with the requirements evaluated.

NAME *J. Krawiec*

DATE *10/15/14*

SUPERVISOR *W.M.*