

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

N759924447

FACILITY: DEPOR INDUSTRIES		SRN / ID: N7599
LOCATION: 1902 NORTHWOOD, TROY		DISTRICT: Southeast Michigan
CITY: TROY		COUNTY: OAKLAND
CONTACT: Ted Howard , Plant Manager		ACTIVITY DATE: 02/25/2014
STAFF: Joyce Zhu	COMPLIANCE STATUS: Compliance	SOURCE CLASS: SM OPT OUT
SUBJECT: annual inspection		
RESOLVED COMPLAINTS:		

On 2/25, I conducted an annual air quality inspection at Depor Industries, Inc. The facility is located on 1902 Northwood, Troy. The Purpose of the inspection was to determine if the company operated in compliance with the Michigan Air Pollution Rules and its permit. I arrived at the facility around 1:30 PM. Mr. Ted Howard, the general manager, met with me. During the inspection, he took me to see the facility operation.

#### Inspection:

The operation involves eight dip spin lines and a part washer system. Currently, the company operates from 6:00 AM – 2 AM.

#### Permit # 489-99E

This permit covers the coating operation and part washer system.

The coating operation consists of eight dip machines. The eighth line was partially installed. This line has more enclosure than the other seven lines. The spin basket is horizontally rotated so that the over sprayed paints are falling back to the paint tank by gravity. In the curing zone, there're multiple trays holding the parts going through layers inside the oven. The emissions from all of the coating processes are controlled by a regenerative thermal oxidizer (RTO). During the inspection, the oxidizer was operated with a temperature of 1507 °F. This temperature was above 1468 °F which was the average temperature during the destruction efficiency test in February 2013. I did not observe any corrosion appearance on the incinerator; nor did I hear any air infiltration from the control; however, I observed some corrosive appearance on the elbow duct from the building to the incinerator as well as on the exhaust stack. The company has put canvas tarps around the RTO. Ted said this was effective to prevent water in the airline from condensing & forming ice in the cold days. As a result, it ensures a good airflow in the line so that the incinerator would not shut down. They measure the viscosities of the paints prior to coating. Normally, a reducer will be added to achieve the desired viscosity. There are no filters associated with the dip spin processes. I didn't see any spills in the coating area. The spin baskets are normally washed in hot caustic solution. Paints and solvents were stored in closed containers in a storage room which was next to the paint mixing room. No spills were observed in the storage area as well as the mixing area although I detected a strong solvent odor in those areas. Waste solvents were stored in a 55-gallon drum which would be sent later for waste disposal. The company's record shows that the VOC emissions have been below the permit limits since February 2013. The total HAPs as well as individual HAP were well below the corresponding limit for the 12-month rolling time period for the same period. Also, the emissions of dimethyl glutarate, ethyl benzene, formaldehyde, & naphthalene, were also well below the corresponding limits during the same period. On 2/26/14, the company submitted the RTO operating temperature for the week of 2/16. The temperature chart showed that the RTO temperature has been maintained above 1468 °F for majority of the time. Except on 2/19, from 3 PM – 9 PM, the average temperature during this period was slightly below 1468 °F. Given that the company's actual emission was well below the corresponding permit limit, the company is expected to operate in compliance with the permit requirements. However, I told Don Guigar from the company that I'd like the temperature to be above 1468 °F. He said that he would raise the set point 25 °F higher than the current one.

The part washer system consists of two acid cleaning lines. Each line has the following: washing stages including degreasing & descaling followed by multi-stages of rinsing, then, acid pickling, rinsing, conditioning, a stage of phosphating, rinsing and drying. Only one of the lines was operating during the inspection. Sulfuric acid was the only acid used in the process. Waste water from these processes is treated on site first before discharging to City of Detroit waste water treatment plant.

In conclusion, the company appeared to operate in compliance with the permit requirements and air quality regulation.

NAME Joyce [Signature]

DATE 3/6

SUPERVISOR CTE