

N0317
MANILA

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

N031740733

FACILITY: ACME PLATING INC		SRN / ID: N0317
LOCATION: 18636 FITZPATRICK, DETROIT		DISTRICT: Detroit
CITY: DETROIT		COUNTY: WAYNE
CONTACT: Ken Jurban , President		ACTIVITY DATE: 07/14/2017
STAFF: Terseer Hemben	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Zinc Phosphating		
RESOLVED COMPLAINTS:		

SCHEDULED INSPECTION: ACME PLATING INC.

SRN N0317

PERMIT #-Exempt R285(2)(r)(i)

18636 Fitzpatrick, Detroit, MI 48228

Present: Ken Jurban President

Terseer Hemben MDEQ

Facility Phone: 313-838-3870; Fax: 313-838-2810

Background:

The ACME Plating Inc operates water-based heavy metal phosphating process using a single bath. The process involves zinc. The company informed there are plans to passivate cadmium in the future. Space has already been allocated for installation of phosphating baths. The company has been in the phosphating business for many years. The business is a minor source whose emissions are released only in the general in-plant environment. The facility meets the exempt status under Rule 285(2)(r)(i). All associated aqua-based emissions are released inside the work area.

Inspection Narrative:

I arrived at the facility address on July 14, 2017 at 1410 hours. Purpose of the visit was to conduct a scheduled compliance inspection of the zinc phosphating process. Temperature at the hour was 80 F with wind speed 8 mph coming from the NW, and humidity was 52%. I met Mr. Jurban the owner/President, who welcomed my visit. We settled down to a pre-inspection interview. Mr. Jurban informed nothing had changed at the facility with regards to operating conditions, except the company reduced the number of phosphating processes to a single bath. We examined the equipment, stack, records, and concluded my visit with a post inspection conference. Mr. Jurban kept records of the material processed (auto parts) and phosphate solutions purchased. I left the area at 1520 hours.

Process Description:

The ACME is in an area which used to be populated with foundry operations. Currently, ACME is the only surviving electroplating operator in the area. ACME produces passivated nuts and rivets for Auto Industries. Polished auto parts like nuts and rivets are dipped into phosphate solution and dried in an oven fired with natural gas fuel with heat input 300,000 Btu per hour per batch. The equipment met the exemption under Rule 282(2)(b)(i). The workshop has an open area where the finished parts are sorted and packed for distribution to customers. Emissions generated from the phosphating fall into the work area

Equipment Controls:

The controls for the phosphating process are built in the process itself. The auto parts received at the facility for phosphating are pre-polished. No particulates are generated during surface preparation. The parts are dipped into phosphate solution which is a water based solution. The oven emits hydrated phosphates and water vapor into the work area. Associated natural gas combustion products leave the building through the ventilation system.

Compliance History:

There has not been any complaint attributed to ACME operations.

Regulatory Summary:

Permit # Exempt Rule 285(2)(r)(i) considerations:

Rule 201 (1): The facility has not made any modification or change to the process or equipment since installation was made.

Rule 301, and Rule 901 were not violated because the overall operation was maintained in a satisfactory manner.

Opacity: There was no visible emissions from the operation of zinc phosphating equipment at the time of inspection.

Compliance Determination:

The inspection of ACME located at 18636 Fitzpatrick, Detroit concluded the facility operated in compliance with air quality requirements. The applicable rules were not violated.

NAME *JLH*

DATE 9/6/2017 SUPERVISOR *JK*