

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

N718624376

FACILITY: Microphoto Inc		SRN / ID: N7186
LOCATION: 30499 Edison, ROSEVILLE		DISTRICT: Southeast Michigan
CITY: ROSEVILLE		COUNTY: MACOMB
CONTACT: Brian Wade, Vice President		ACTIVITY DATE: 02/18/2014
STAFF: Sebastian Kallumkal	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Onsite Inspection		
RESOLVED COMPLAINTS:		

On Tuesday, February 18, 2014, I conducted an annual investigation at Microphoto, Inc. located at 30499 Edison, Roseville, Michigan. The purpose of the inspection was to verify facility's compliance with requirements of Article II, Air Pollution Control, Part 55 of Act 451 of 1994.

The facility is located in an industrial park, west of Groesbeck and South of 13 Mile Road. I arrived at the facility at about 12:00 Noon. At the facility I met with Mr. Brian Wade, Vice President, (586) 772-1999. I introduced myself, provided credentials and MDEQ brochure of Environmental Inspection-Rights and Responsibilities and stated the purpose of the visit. During the pre-inspection meeting, he explained to me about the facility operations. He told me that they haven't had any change in the processes since the last inspection. The facility is involved in the production of metal prototypes based on the blue prints provided by the customers. The facility uses photo chemical etching in the production of these prototypes. The prototypes are used in the electronic, consumer electronic, decoration, automotive, defense, architectural, aeronautical, and medical fields.

After the initial meeting, he accompanied me for an inspection of the facility. The process includes cleaning the metal sheets (substrates-stainless steel, Al, Cu, etc.) using isopropyl alcohol (wipe), pumice (finely ground lava stone) and water, laminating with photo-resist chemical (AQUA MER MI200 series), exposing to UV light to capture image of parts using photo tool, etching metal with 40% BAUME ferric chloride, stripping with photo resist solution (KCI) solution followed by air gun drying and finally making parts. The facility has four etching machines, 1 laminator, and 1 developer. The laminator, developer and etching machines are vented to the atmosphere. Mr. Wade provided a copy of the photo resist chemical. The MSDS indicates that it does not contain any HAP.

The facility is in operation at this site since 1994. It has about 18 employees and operates 5-6 days per week from 7 AM to 3:30 PM and occasionally for 12 hours per day.

The cooling water from the machines is discharged to the storm sewer. The waste water from the chemical etching process is treated and discharged to DWSD sanitary sewer.

On February 10, 2004 MDEQ-AQD approved that the processes at the facility are exempt from permit to install requirements pursuant to R336.1290. Based on the MSDS, the facility's VOC emissions appear to be in compliance with the Rule 290 requirements.

To verify compliance with the air quality rule requirements, facility shall keep monthly usage or purchase records for the photo resist chemical.

Conclusion: From the information provided the facility appears to be in compliance with the Michigan Air Pollution Rules and Regulations.

NAME S. KallumkalDATE 2/25/14SUPERVISOR CJE