

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

U39150158328788

FACILITY: Complete Metal Finishing		SRN / ID: U391501583
LOCATION: 4301 Manchester Rd		DISTRICT: Kalamazoo
CITY: Kalamazoo		COUNTY: KALAMAZOO
CONTACT: Paul Mahoney, Sales Manager		ACTIVITY DATE: 03/11/2015
STAFF: Dorothy Bohn	COMPLIANCE STATUS: Compliance	SOURCE CLASS: β
SUBJECT: AQD has not been to this facility before		
RESOLVED COMPLAINTS:		

This was unannounced. I arrived at 10:30 and met Paul Mahoney. I gave Paul an inspection brochure. Paul had to leave so he introduced me to Trevor Francis, production manager, for conducting the inspection. The company has been here since 2004 and they process raw stainless steel and mild ferrous steel.

Blasting: They have 2 booths for blasting - one for each type of steel. The mild steel is blasted with garnet and the stainless is blasted with glass beads. Both units vent to a cartridge filter dust collector that vents inside the building at the top of the unit. Right where the unit exhausts is a fan in the side of the wall venting out. We looked outside and the area still had some melting snow and it was all fairly clean. At the end of the inspection I explained Rule 285(l)(vi) which these units are exempt under.

Electropolishing: Pretreatment consists of 3 tanks containing a degreaser (Formula 515DD - MSDS attached), a de-oxide and nitric acid. The nitric acid is mixed in water and is 50-70% acid. The degreaser is 1.5% VOC full strength and Paul says in his email that they dilute it to a concentration of 10-20% in the bath. The de-ox tank contains nitric acid at 20-30% and HFI at less than 10%. The polishing bath contains H_2SO_4 and phosphoric acid. It brings out the nickel and chromium in the steel to achieve the polished look. I observed its operation and there were no fumes. This process exhausts into the plant and so is exempt per Rule 285(r).

They also occasionally use MEK to clean parts like to remove tape or something on it by wiping with rags. Trevor said they probably have 2 one gallon cans on site and they will last 4-5 months. This can also be exempt under Rule 285(r).

Trevor said that they will go to companies and polish equipment for them at their facilities. The company appeared to be in-compliance with air regulations. I left at 11:15.

NAME Dorothy Bohn DATE 3/12/15 SUPERVISOR Y203/16/2015