

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

U6308018224119

FACILITY: Filtra Systems, Inc.		SRN / ID: U63080182
LOCATION: 23900 Haggerty Rd, Farmington		DISTRICT: Southeast Michigan
CITY: Farmington		COUNTY: OAKLAND
CONTACT:		ACTIVITY DATE: 10/24/2013
STAFF: Iranna Konanahalli	COMPLIANCE STATUS: Compliance	SOURCE CLASS:
SUBJECT: FY 2014 inspection of Filtra Systems, Inc. ("Filtra"), located at 23900 Haggerty Road, Farmington Hills, Michigan 48335-2618.		
RESOLVED COMPLAINTS:		

**Filtra Systems, Inc. (U-63-08-0182)**  
**23900 Haggerty Road**  
**(South of 10 Mile Road)**  
**Farmington Hills, Michigan 48335-2618**

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On October 24, 2013, I conducted a level 2 self-initiated inspection of Filtra Systems, Inc. ("Filtra"), located at 23900 Haggerty Road, Farmington Hills, Michigan 48335-2618. The inspection was conducted to determine compliance with the Federal Clean Air Act; Article II, Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451 and Michigan Department of Environmental Quality, Air Quality Division (MDEQ-AQD) administrative rules.

During the inspection, Mr. Scott Bratten (Phone: (248) 427-9090-ext. 121; Fax: (248) 427-9893; Mobile: (248) 640-7126; E-mail: [scottb@filtrasystems.com](mailto:scottb@filtrasystems.com)), President, assisted me.

About June 2012, Mr. Craig Wills (Phone: (248) 427-9090-ext. 114; Fax: (248) 427-9895; Mobile: (248) 640-3829; E-mail: [craigw@filtrasystems.com](mailto:craigw@filtrasystems.com)), Vice President of Engineering, retired.

At this Farmington Hills location, Filtra conducts Research and Development, Engineering, Testing, Support & Project Management activities. This is also headquarters (HQ) for the company. There is no manufacturing taking place at this time; all manufacturing moved to Gordonsville (near Nashville), Tennessee, about 2007.

In order to make use of available building space and also for logistics reasons, Filtra Systems (F/S) started warehousing the filtration products manufactured at Tennessee.

Filtration systems are produced to control particulate pollution in water and air media for industrial processes, automotive industry in particular. Filtra's business corresponds to 70% from cutting oils filtration and 30 from chemicals, wastewater, etc., filtration.

Some of the filtration products are:

1. Deep-bed filter (DBF)
2. Verti-Press Automatic Filter
3. Magne-Tight Filter (Magnetic Separation) for ferrous metal contaminated oils
4. Hydra-Lift Pump for pumping metal-containing cooling fluid
5. VPC Pressure Filter for separating steel from cutting oil
6. Hydro-Vac PMSS Vacuum Filters (recently most production is due to this product line)

### **Rule 287(c) Paint Spray Booth**

About 2009, one paint booth (15 ft. x 15 ft.) with back-draft dry filter system has been removed. All production of air / water pollution control equipment / devices using filtration moved to Gordonsville, Tennessee.

### **Fluidization and vacuum compressor unit**

This unit is used for demonstration and testing. The metal chips are fluidized using air. Air and chips go through about 30 feet pipe and chips are filtered by a fabric filter system. The exhaust air after filtration of metal chips / flakes is recycled into the plant. Because the fluidization unit is used only for demonstration, testing and not exhausted outside, the equipping is exempt from Rule 336.1201 (Permit-to-Install) pursuant to Rules 336.1283 and 336.1285.

The fluidization unit has not been used since 2009 due to 2008-2010 economic crisis known as great recession. General Motors Corp. is not asking for its use. This is supposed to test pneumatic conveyor system for metal chips for industrial production process.

### **Rule 285 mist eliminator demonstration units (2)**

One unit (installed in 2009) is used for demonstration and testing. There is one knock-out drum to take out liquid particles where liquid oil is taken out. A fan draws the contaminated air into a cartridge / pleated filter system. Filtered exhaust may be recycled into the plant. Mist generator unit generates oil / water mist. The exhaust is not discharged to outside ambient air. This is a demonstration unit.

About 2013, one more larger unit, consisting of a knock-out drum for liquid oil and a cartridge / pleated filter system, was installed for testing purposes.

Both units are installed for testing and engineering purposes. All filtration products production to engineering specifications takes place in Tennessee.

Mist generator and associated mist eliminator are exempt from Rule 336.1201 (Permit-to-Install) pursuant to Rules 336.1283 and 336.1285.

**Wind mills testing**

Wind mill engineering studies were performed. Wind mills were tested and studied for aerodynamics, structural integrity (stresses and strains), materials selection and so on. This testing operation is removed recently (CY 2011)

In order to make use of vacant manufacturing area, Filtra started warehousing SS filters, bag filters, surplus filtration units, mist eliminators, etc.

There is no cold-cleaner or parts cleaner at the facility.

**Conclusion**

This is a sales, engineering, R & D and testing facility. All production moved to Tennessee. I did not find any compliance problem.

MCDS Misc-16/2

NAME Bill Hannahalt DATE 01/21/2014 SUPERVISOR CTE