

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

FY 2014 Insp-

B275725225

FACILITY: CHRYSLER WARREN STAMPING PLANT	SRN / ID: B2757
LOCATION: 22800 MOUND RD., WARREN	DISTRICT: Southeast Michigan
CITY: WARREN	COUNTY: MACOMB
CONTACT: Greg Karageozian, Environmental Engineer	ACTIVITY DATE: 04/11/2014
STAFF: Iranna Konanahalli <input checked="" type="checkbox"/> COMPLIANCE STATUS: Compliance	SOURCE CLASS: MAJOR
SUBJECT: FY 2014 level-2 self-initiated inspection of Chrysler Group, LLC ("Chrysler") located at 22800 Mound Road, Warren (Stamping Plant)	
RESOLVED COMPLAINTS:	

E-file: B2757_SAR_2014_04_11

**Chrysler Group, LLC (B2757)
22800 Mound Road
Warren, Michigan 48091-3596**

ROP No.: MI-ROP-B2757-2013

On April 11, 2014, I conducted a level-2 self-initiated inspection of Chrysler Group, LLC ("Chrysler") located at 22800 Mound Road, Warren, Michigan 48091-3596. The inspections were 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; Michigan Department of Environmental Quality, Air Quality Division (MDEQ-AQD) administrative rules.

During the inspection, Mr. Greg Karageozian (Phone: 586-497-1454; Fax: 586-497-1750; E-mail: gmk9@chrysler.com), Environmental Specialist, Facilities Engineering, assisted me. Ms. Sarah Olson (Phone: 586-427-5458; Fax: NA; Cell: 248-219-1107; E-mail: sarah.olson@chrysler.com), Environmental Health and Safety Lead, Warren Stamping Plant, was also present.

Chrysler Warren Stamping Plant is subject to ROP Program because it is adjacent to Warren Truck Assembly Plant and both are under common ownership and control of Chrysler Group, LLC.

Chrysler Warren Stamping Plant is engaged in the production of automotive parts such as door panels, hoods, etc. for automotive assembly plants. As such most of its parts are shipped to Warren Truck, Jefferson North, Belvidere (IL) plants. Most stamped parts are for sports utility vehicles (vans, trucks, jeeps, etc.)

The following emission units / groups present:

1. EU-CARP-SHOP: Carpenter shop with dust collectors. About 6 carpenter stations (saw, planer, grinder, sander, etc.) are present. Saw dust emissions from each are ducted to a baghouse that uses shaker mechanism for bag cleaning. Two 55-gallon drums are present as hoppers. I asked Mr. Greg Karageozian to empty the hoppers promptly when full and inspect the bags on a quarterly basis (EU-CARP-SHOP, VI.1).
2. EU-HIGHLIGHT: Application of highlighter fluid. There are about 20-25 highlighter stations where high-light fluid is applied on some parts for quality control purposes using

statistical methods. I asked Mr. Greg Karageozian to keep lids of cans (5 gallon capacity) closed at all times. Highlighter fluid usage (12-month basis) records are kept and emissions calculations are done (440 gallons per year CY2013). The fluid's density is 6.7 pounds per gallon, boiling point is 410-535 °F and vapor pressure is less than 50 mm Hg at 100 °F. $(6.7 \text{ lbs VOC / gal}) * (440 \text{ gallons / year}) = 2,948 \text{ lbs of VOC per year} = 1.474 \text{ tons of VOC emissions per year (EU-HIGHLIGHT, 1.1 limit: 5.62 tons per year)}$

3. FG-RULE287(c): Maintenance paint spray booth (25 ft. 25 ft. room). The booth is equipped with backdraft filters. All paints are water-based. Paint usage records are kept. I asked Mr. Greg Karageozian to install and inspect the filters such that they fit, at all times, snugly without gaps and holes.
4. FG-Rule290: In subassembly area, 55-gallon drums contain adhesives and the materials are pumped to applicators. Outer panels and inner panels are put together using adhesives. Both 2-part (A & B) and 1-part adhesives are used. Adhesive usage records are kept and VOC emissions calculations are done.
5. EU-COLD-CLEANERS: All cold-cleaners are water based.

Conclusion

Chrysler stamping is a small source VOC and particulate matter. However, it is subject to ROP Program because it is adjacent to Chrysler's Warren Truck Assembly Plant.

NAME *J. Heenan* DATE *05/22/2014* SUPERVISOR *CJE*