FY2015 Insp

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

U63151042731424

FACILITY: United Resin Corporation		**SRN / ID:** U631510427
LOCATION: 4539 Normandy Court		**DISTRICT:** Southeast Michigan
CITY: Royal Oak		**COUNTY:** OAKLAND
CONTACT:		**ACTIVITY DATE:** 09/24/2015
STAFF: Iranna Konanahalli	**COMPLIANCE STATUS:** Compliance	**SOURCE CLASS:**
SUBJECT: FY 2015 initiated inspection of United Resin Corporation		
RESOLVED COMPLAINTS:		

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United Resin Corporation (U-63-15-10427)
4539 Normandy Court
Royal Oak, Michigan 48073-2266

Rule: 336.1285

On September 24, 2015, I conducted a level 2 self-initiated inspection of United Resin Corporation ("United Resin" or "URC"), in a business of formulating epoxy resins, 4539 Normandy Court, Royal Oak, Michigan 48073-2266. 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. Wesley S. Cook (Phone: 248-549-8200; Cell: NA; Fax: 248-549-9587; E-mail: wCook@UnitedResin.com), Controller, Mr. Chris Prather (Phone: 248-549-8200; Cell: NA; Fax: 248-549-9587; E-mail: cPrather@UnitedResin.com), Chemist, assisted me.

United Resin is in business of providing epoxy formulation services for aerospace, electronics, automotive, marine, construction, etc. industries. The products include:

Electronic assembly products
Sealants, adhesive and repair products
Prototyping, tooling, laminating compounds

The customers are primarily electronics industry. Founded in 1970, United Resin is in this building since early 1990s.

With no chemical reaction taking place, formulating takes place using 7 mixers with two (2) sets fabric filter systems.

Four (4) mixers of variety of sizes are present. Each mixer has its own capture device for particulate matter emissions. The captured particulate laden exhaust gases are transported via a common manifold to a filter system consisting of two large bags (each bag: 4 ft. H * 4 ft. diameter) and two 55-gallon drums as hopper for collected particulate.

Three (3) mixers of variety of sizes are present. Each mixer has its own capture device for particulate matter emissions. The captured particulate laden exhaust gases are transported via a common manifold to a filter system consisting, in series, of one cyclone (primary for large particles) and a fabric filter (24 bags, 4 ft. H, 6 inches diameter) (secondary for fines). The cyclone reduces particulate loading for the fabric filter and thus increasing collective effectiveness.

Upon filtration, exhaust gases from both control systems (2) are released to in-plant environment.

The mixers (7) are exempt from Rule 336.1201 (Permit-to-Install) pursuant to Rule 336.1285(l).

Conclusion

Mixing machines / processes are exempt from Rule 336.1201 pursuant to Rule 336.1285.

NAME Iranna Konanahalli DATE 09/25/2015 SUPERVISOR CJE