

DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION
ACTIVITY REPORT: On-site Inspection

B203273076

FACILITY: FCA US LLC	SRN / ID: B2032
LOCATION: 840 E. HURON BLVD, MARYSVILLE	DISTRICT: Warren
CITY: MARYSVILLE	COUNTY: SAINT CLAIR
CONTACT:	ACTIVITY DATE: 08/02/2024
STAFF: Iranna Konanahalli	COMPLIANCE STATUS: Compliance
SUBJECT: 2 FY 2024 scheduled inspection of FCA US Mopar (FCA Mopar), located at 840 E. Huron Blvd., Marysville, MI 48040-1571.	SOURCE CLASS: MINOR
RESOLVED COMPLAINTS:	

FCA US LLC Mopar (B2032)
840 E. Huron Blvd.
Marysville, MI 48040-1571

Contacts:

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Rule 336.1287(2)(c) - Permit to install exemptions for surface coating equipment (water-based dip e-coat process). A dry filter control system is unnecessary because there is no spray of coatings; only dip e-coat process. The coatings contain 80 percent water and 20 percent paint solids. About 1,000 gallons of coatings per month are used. Hence, FCA Mopar e-coat process equipment is exempt from Rule 336.1201 (Permit-to-Install).

On **August 02, 2024**, I, Iranna Konanahalli, conducted a level-2 **FY 2024 scheduled inspection** of FCA US Mopar (FCA Mopar), located at 840 E. Huron Blvd., Marysville, MI 48040-1571. 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; Environment, Great Lakes and Energy, Air Quality Division (EGLE-AQD) administrative rules.

When Chrysler bought Dodge in 1928, the need for a dedicated parts manufacturer, supplier and distribution system to support the growing enterprise led to the formation of the Chrysler Motor Parts Corporation (CMPC) in 1929. Then Chrysler trademarked “**Mopar**” – a simple contraction of two words “motor” and “parts”. Simply, this is a Mopar service and parts division for now FCA US. The service parts are stored, inventoried, packaged, shipped to automobile repair facilities and managed in 1.2-million-square-foot building built about 100 years ago.

Only process regulated by Clean Air Act in this enormous facility is “CATHODICOAT KOCH” e-coat process for metallic service parts coating. The paint particles are electrostatically charged and are attracted to immersed metal parts that are grounded. The process is known as cathodic dip coating (CDC or E-Coating). The positively charged paint particles are attracted to cathode (grounded metal part).

Only one e-coat tank is present for immersing metallic parts. In all, twelve (12) tanks are present. Three (3) wash tanks after e-coat are present. The rest of the tanks are used prior to e-coating for cleaning, phosphating galvanized (zinc coated) metal parts. The following are stages:

1. Stage 1: ChemKleen 611 Spray Body Wash
2. Stage 2: ChemKleen 611 Immersion Body Wash
3. Stage 3: City Water Spray Rinse
4. Stage 4: Versabond Rinse Conditioner Immersion Wash
5. Stage 5: Versabond Zinc Phosphate Application Immersion Wash
6. Stage 6: City Water Immersion Rinse
7. Stage 7: Rust Inhibitor Spray Wash
8. Stage 8: RO Water Immersion Rinse
9. Stage 9: E-coat Prime Electrically Deposited Paint Immersion
10. Stage 10: Post Rinse 2 Paint Capture Spray Rinse (Ultrafiltration or UF)
11. Stage 11: Post Rinse 3 Paint Capture Immersion Rinse (Ultrafiltration or UF)
12. Stage 12: Post Rinse 4 RO Water Spray Rinse

13. Stage 13: Post Rinse 5 Virgin RO Water Spray Rinse

The stages 1, 2 and 5 are heated (≈ 130 °F). The rest of the stages operate at in-plant temperature.

At the end of all stages, the metallic parts are cured in a bake oven at 375 °F (natural gas fired, $< 6 < 50$ MM BTU per hour, Eclipse Air Heat Burners for oven heating). About 1,000 gallons of water-based e-coat coatings (80 percent water plus 20 percent paint solids) are used using one e-coat tank and 11 other rinse & immersion tanks. Galvanized metal parts are cleaned and then coated.

1.2-million-square-foot building is space heated in winter by natural gas fired forced air building heating system. A boiler is not used for steam production for building space heating purposes.

Conclusion

FCA US LLC Mopar (Motor Parts) is in compliance with State and Federal Clean Air Rules. Water-based e-coat process is exempt from Rule 201 (Permit-to-Install).

NAME

J. S. MarshallDATE 08-13-2024

SUPERVISOR

Joyce