

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

FY 2014 Insp.

U6314873626264

FACILITY: Adept Plastic Finishing, Inc. – Molding (Plant 5)		SRN / ID: U63148736
LOCATION: 29835 Beck Road		DISTRICT: Southeast Michigan
CITY: Wixom		COUNTY: OAKLAND
CONTACT:		ACTIVITY DATE: 07/02/2014
STAFF: Iranna Konanahalli	COMPLIANCE STATUS: Compliance	SOURCE CLASS:
SUBJECT: FY inspection of Adept Plastic Finishing, Inc. – Molding ("Adept")		
RESOLVED COMPLAINTS:		

E-file: U63 14 8736-SAR-2014 07 14

Adept Plastic Finishing, Inc. – Molding (U-63-14-8736)
29835 Beck Road
Wixom, Michigan 48393-2835

www.AdeptPlasticFinishing.com

On July 14, 2014, I conducted a level 2 self-initiated inspection of Adept Plastic Finishing, Inc. – Molding ("Adept") located at 29835 Beck Road Wixom, Michigan. 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. David W. Sadoway (Ph: 248-374-5870 ext. 204; Fax: 248-374-1178; E-mail: dsadoway@adeptfinish.com) and Mr. Tony Spalding (Phone: 248-960-3003 – ext. 205), General Manager, assisted me.

Mr. David J. Connell (Ph: 248-374-5870 ext. 206; Fax: 248-374-1178; E-mail: dconnell@adeptfinish.com), President and Owner, was present but did not participate,

Founded in 1984 in Farmington Hills, and later moving to Wixom, Adept Plastic Finishing operates several auto parts plants: Plant 1 (plastic parts painting at Andersen Court), Plant 2 (plastic parts painting – shutdown and building sold due to 2009 economic crisis), Plant 3 (plastic parts painting with a state-of-the-art booth and oven VOC control technology), Plant 4 (plastic parts hexavalent chromium plating over ABS and PC/ABS substrates) and Plant 5 (plastic molding plant ABS & ABS/PC polycarbonate).

This plant (Plant 5) molds plastic parts from thermoplastic polymers using heat and shear on thermoplastic pallets.

There is one common feeding system for all ten (10) Toshiba molding machines; when all said and done there will be about 20 machines. Two (2) storage silos (110,000 pounds capacity each) are located outside. Pallets from the silos are pneumatically conveyed to two electrically-heated dryers located on mezzanine to drive off any moisture due to storage and handling. Dried pallets go to any of ten (10) Sabic or Samsung hoppers.

From the hoppers, existing ten molding machines receive the pallets. Heat and shear melts the pallets (one-component and single-shot). 327-gram spray can mold release agent (non-silicone) is used. As the production is slow as a brand new plant, one can per day is used.

One chiller for all molding machines is present. Ethylene glycol is used for heat transfer in a closed loop system. Chilled water delivers cold water the molding machines to remove heat. Ethylene glycol exchanges cold with chiller water. An evaporator is located on the roof.

The pallets are supplied by suppliers such as Sabic, Samsung, etc.

The molding machines are exempt from Rule 336.1201 (Permit-to-Install) pursuant to Rule 336.1286 (Plastic Processing Equipment, e.g., molding)

Conclusion

Molding machines (Rule 336.1286) are exempt from Rule 336.1201.

NAME J. S. Kennerhall DATE 8/6/2014 SUPERVISOR CTE