

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

P135071953

FACILITY: TECNOFORM USA INC		SRN / ID: P1350
LOCATION: 4999 36TH STREET SE, GRAND RAPIDS		DISTRICT: Grand Rapids
CITY: GRAND RAPIDS		COUNTY: KENT
CONTACT: James Timyan , Operations Manager		ACTIVITY DATE: 05/14/2024
STAFF: April Lazzaro	COMPLIANCE STATUS: Compliance	SOURCE CLASS: SM OPT OUT
SUBJECT: Unannounced, scheduled inspection.		
RESOLVED COMPLAINTS:		

Air Quality Division staff, April Lazzaro arrived at the facility to conduct an unannounced, scheduled inspection and met with James Timyan, Operations Manager. Upon arrival at the facility, no odors or visible emissions were observed.

FACILITY DESCRIPTION

Tecnoform USA, Inc. (Tecnoform) is the North American headquarters for Tecnoform S.P.A. Italy, a manufacturer of furnishings for recreational vehicles. Tecnoform creates wood framework using a variety of woodworking equipment including saws, edge banders, trimmers and computer numerical control (CNC) cutting machines. In June 2023, Permit to Install (PTI) No. 76-23 was issued for the processes at the facility. All particulate emissions generated from the woodworking equipment are vented to a 55,000 actual cubic feet per minute baghouse and are identified in the permit as EUWOODWORKING. Laminate of various thicknesses are adhered to the wood utilizing one of seven adhesive application stations which are identified in the permit as FGADHESIVE. There is one paint booth that can be used to apply coatings as needed identified in the permit as EUCOATING. Finally hazardous air pollutants (HAPs) emissions are limited in FGFACILITY.

COMPLIANCE EVALUATION

EUCOATING

The paint booth was observed to be in good condition, it has not yet been used. The facility has contracted a company to provide the correct size filters and intend to utilize two filters in series when the unit is operated. Additionally, it is equipped with a magnehelic gauge which will be used to determine when the filters need to be replaced. Emissions from EUCOATING are limited to 0.90 tons per year on a 12-month rolling time period. Since the booth has not yet been used, there are no emissions to include in this report. A review of the emissions spreadsheet found that it has the appropriate information to track data once the booth is in use.

EUWOODWORKING

All woodworking equipment at the facility are vented to the baghouse, and the in-plant environment was free of wood particulate, indicating good capture of materials. The baghouse and system are equipped with a differential pressure monitoring system of a unique design, and the ability to return air back into the building which is temperature dependent. The specifics of the system are detailed in the malfunction abatement plan, which includes preventative maintenance plan provisions as well. This was submitted timely in accordance with the permit requirements and determined acceptable on May 2, 2024. The unique design has to

do with the initial operation of the unit and the fact that the differential pressure recorded upon start up is set to zero, using the "reset the zero pressure" operating procedure. In the event of an issue with the bags, the differential pressure reading will fall below zero and if that occurs an alarm will be activated. As such, the monitoring gauge installed has both negative and positive measurement capabilities. The system is further equipped with an integrated hours meter, where the hours are read and recorded at the first of each month to comply with the permit requirements. Since the dust collection bin is located a fairly long distance from the baghouse, the ductwork is equipped with windows at various intervals to easily observe proper movement of collected materials, as well as access points to clear any blockages. Tecnoform has contracted with a disposal company to maintain one collection bin, designated for their use only that was adequately sealed. Mr. Timyan was aware of the potential for issues when bin leaks occur, and indicated a commitment to ensuring the area remains free of any debris. The permit requires that the facility track hours of operation for EUWOODWORKING, which is being done. The hours of operation for March 2024 were 47, all of which were recirculated back into the facility.

FGADHESIVE

This flexible group includes the wood adhesive application operations in the seven application areas identified as EUADHESIVE1-7. Following the inspection, Mr. Timyan and I discussed labeling the areas individually for ease of inspection in the future. All equipment appeared in proper working order, and the areas were free of debris. None of the adhesive application areas have a stack that emits to the ambient air.

Recordkeeping was requested and reviewed and found to meet the requirements of the permit. Due to the fact that the facility has recently begun operating, usage is low. There are no emission limits or associated recordkeeping requirements identified in FGADHESIVE, except for maintaining safety data sheets on site, which is being done. Additionally, any HAPs used in FGADHESIVE are required to be reported in the facility-wide recordkeeping as detailed below.

FGFACILITY

This flexible group applies source-wide to all process equipment and contains limitations on both individual HAPs and aggregate HAPs emissions. Individual HAPs are limited to less than 9.0 tons per 12-month rolling time period and aggregate HAPs are limited to less than 22.5 tons per 12-month rolling time period. Currently the report indicates that two HAPs are present in the adhesives and emissions are 0.01 pounds for the month of March 2024.

CONCLUSION

Tecnoform USA, Inc. was in compliance at the time of the inspection.

NAME



DATE

5/23/24

SUPERVISOR

