

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

N815771144

FACILITY: Jeup Furniture		SRN / ID: N8157
LOCATION: 4171 Luxe Ct. SE, KENTWOOD		DISTRICT: Grand Rapids
CITY: KENTWOOD		COUNTY: KENT
CONTACT: Cindy Bandaccari ,		ACTIVITY DATE: 03/12/2024
STAFF: April Lazzaro	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Unannounced, scheduled inspection.		
RESOLVED COMPLAINTS:		

Air Quality Division staff April Lazzaro conducted an unannounced scheduled inspection of Jeup Furniture located at 4171 Luxe Ct SE, in Kentwood. The purpose of the inspection was to determine the facility's compliance with state and federal air pollution regulations as well as PTI No. 301-08A. Upon arrival in the area, no odors or visible emissions were observed. At the onset of the inspection, I met with Kevin Kuske, Chief Operating Officer, Cindy Bandaccari, Quality Manager and Mike Miller, Production Manager. Mike Miller, escorted me during the inspection of the facility.

FACILITY DESCRIPTION

Jeup Furniture manufactures high-end wood furniture primarily for the residential market. The facility consists of a wood manufacturing area, finishing area, and storage. The finishing operations are covered under General Permit to Install No. 301-08A. The facility began operations in December 2008, and added a booth through a permit modification in 2022. This facility is a true minor source of emissions.

COMPLIANCE EVALUATION

Manufacturing area:

As noted during previous AQD inspections, the manufacturing area consists of various woodworking machines that are exhausted to a three-chamber closed loop baghouse. All particulate is collected in a large roll-off container. The equipment in this area is exempt from permitting under Rule 285(2)(I)(vi). An observation of the baghouse and adjacent areas external to the building found that there were some small leaks in the ductwork and minor wood particle accumulation in the area. I learned that the bags were replaced, and baghouse was overhauled in June of 2023. Mr. Miller stated that they would address any leaks and clean up the area immediately. They do not measure pressure drop, but rather fan amperage. Readings at the time of the inspection were 69.8 hertz (Hz) and 40 horsepower (hp). The control panel also will also provide an alarm if operations are out of specification.

A glue hot press is utilized in the machining area that uses a water based two-part epoxy that has emissions vented to the general in-plant environment. Water is used as needed for clean-up. Usage of the adhesive is less than 2 gallons per day and is exempt from permitting under Rule 287(2)(a).

Finishing area:

The finishing area consists of four coating spray booths and one additional booth used to spray a water/bleach mixture covered under PTI No. 301-08A. All spray booths use dry filters which appeared to be installed and maintained

properly. Maintenance utilizes the pressure drop gauges on the booths to monitor the filter status.

Under PTI No. 301-08A, the company is required to use HVLP spray guns. We discussed the spray guns in use, The spray guns observed were a Devilbiss DeVilbiss FinishLine cup gun model FLG4 and a Devilbiss compact pot gun Mr. Miller stated that they are both HVLP style applicators.

Stack heights were not measured, but no changes were observed. During a previous inspection, all stack heights appeared to be 1.5 times the building height in accordance with the permit.

Monitoring/Recordkeeping/Emission Limits

The company is maintaining all records in accordance with the permit. A review of the records found that while compliance with the permit limits was easily ascertained, the company needed to calculate the 12-month rolling totals. A template for doing so was provided, and the records were promptly updated and received. Jeup will maintain the 12-month rolling records going forward. According to company records from March 2023 through February 2024, the company emitted 1.00 tons of VOC emissions which is below the 10 tons per year limit in PTI No. 301-08A. In addition, the highest VOC emissions in any one month was 296.6 pounds (August 2023) which is below the 2,000 pound per month limit in the permit.

Testing

The company maintains SDS records for all coatings and materials used. The company has submitted a request to use manufacturer's formulation data rather than Method 24 for determining the VOC content of coatings. This request was determined approvable.

SUMMARY

Jeup Furniture was in compliance at the time of the inspection.

NAME April Lazzaro

DATE 03/21/2024

SUPERVISOR 