

DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION
ACTIVITY REPORT: Scheduled Inspection

N809731965

FACILITY: MICHIGAN PRESTAIN		SRN / ID: N8097
LOCATION: 3903 ROGER B CHAFFEE MEMORIAL DR, WYOMING		DISTRICT: Grand Rapids
CITY: WYOMING		COUNTY: KENT
CONTACT: Greg Troutt , President		ACTIVITY DATE: 10/28/2015
STAFF: David Morgan	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT:		
RESOLVED COMPLAINTS:		

At 12:30 P.M. on October 28, 2015, Air Quality Division staff Dave Morgan conducted an unannounced scheduled inspection of Michigan Prestain located at 3903 Roger B Chaffee Memorial Drive in Wyoming. The purpose of the inspection was to determine the facility's compliance with state and federal air pollution regulations as well as Permit to Install No. 58-09. Accompanying AQD staff on the inspection was Greg Troutt, President.

FACILITY DESCRIPTION

Michigan Prestain stains cedar siding, cedar shingles, shingle panels, log cabin siding, and fiber cement siding. The company has four shingle dipping units, two ultraviolet coating machines, and two staining machines. This facility is also a true minor source of VOC and HAP emissions.

COMPLIANCE EVALUATION

Dip Staining:

There are four dip coating units used to coat cedar shingles with primarily water-based stain. Some oil based stains are used in the dipping units. In the dipping process, the stain is pumped from a five gallon pail into a basin where the shingle is manually dipped. The shingles are then hung to drip dry. No ovens are used. All excess coating is captured and reused.

Panel Lines:

There are two panel lines used to stain cedar or fiber cement boards. One line is used for low volume or custom jobs and can use oil-based or acrylic coatings.

The other line is a large flat panel stain line with a curing oven that also stains siding boards. Water-based coatings from Cabot, PPG, and Sherwin Williams are the primary coatings used on this line.

UV Coating:

There are two UV coating lines consisting of polymeric coatings that are applied as a liquid at room temperature and solidified on exposure to UV light. The UV coatings by Mid America Protective Coatings contain nearly 100% solids with a trace (0.001 lbs/gallon) of VOC. Only one line is actually used for production. Acetone, which is not considered a VOC, is used as a cleanup solvent on this line.

It is noted that HVLP spray applicators are not used in the coatings operations, however, technology with a equivalent transfer efficiency is used

Recordkeeping:

The company is maintaining usage and emission records in accordance with the permit (attached). Records for the period from October 2014 through September 2015 were as follows:

<u>Emission Unit</u>	<u>Pollutant</u>	<u>Actual</u>	<u>Limit</u>	<u>Compliance</u>
Stain Line	VOC	0.97 tons	10 tons	Y
Flat Line	VOC	2.51 tons	10 tons	Y
Shingle Line -1	VOC	1.5 tons	10 tons	Y
Shingle Line -2	VOC	1.48 tons	10 tons	Y

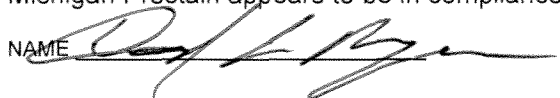
Shingle Line -3	VOC	1.15 tons	10 tons	Y
Shingle Line -4	VOC	1.25 tons	10 tons	Y
UV Line	VOC	1.85E-4 tons	10 tons	Y
Total	VOC	8.8 tons	30 tons	Y

It is noted that records also show that VOC emissions for all lines are well below the 2,000 pound per month limit in the permit.

SUMMARY

Michigan Prestain appears to be in compliance with applicable requirements evaluated.

NAME



DATE

11/3/15

SUPERVISOR

