

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

N727352128

FACILITY: EURO LIGHTING DESIGNS, INC.		SRN / ID: N7273
LOCATION: 945 GRAND RAPIDS ST., MIDDLEVILLE		DISTRICT: Grand Rapids
CITY: MIDDLEVILLE		COUNTY: BARRY
CONTACT: Sven Welz , Owner		ACTIVITY DATE: 01/14/2020
STAFF: Eric Grinstern	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Unannounced Inspection		
RESOLVED COMPLAINTS:		

FACILITY DESCRIPTION

Euro Lighting Designs manufactures George Nelson "bubble lamps". The manufacturing process consists of the forming of a wire frame by hand and pneumatic tools. Once the frame is formed it is placed on a turntable in a spray booth where a web coating is manually sprayed while the frame is spinning. The coating adheres to the frame, forming a skin. After the web coating dries the lamp assembly is completed with the addition of the electrical components.

REGULATORY OVERVIEW

The facility is categorized as a minor source that currently holds one air use permit, PTI No. 226-03F. The permit covers the facility's two spray booths. The permit was most recently modified in November 2019, at which time a second booth was permitted. At the time of the inspection the facility had been operating the new booth for approximately a week.

COMPLIANCE EVALUATION

Prior to entering the facility no opacity or odors were noted while observing the facility from the public roadway. At the facility, EG met with Sven Welz, Owner.

Below is an evaluation of the facilities compliance requirements.

Permit to Install No. 226-03F

The permit addresses two spray booths (EU-BOOTH#1 and EU-BOOTH#2) which are combined into FG-BOOTHs.

Pollution Control Equipment/Design/Equipment Parameters

Each booth is required to be equipped with dry filters for particulate control. Observation of the booths showed each to be equipped with filters. The filters appeared to be in good working condition. Due to the nature of the web coating sprayed in the booths, they are able to peel the coating off the filters after it dries.

Emissions/Material Limits/Records (Records Attached)

The permit restricts VOC and acetone emissions. VOCs are limited to 31.4 tpy and acetone is limited to 14.7 tpy for FG-Booths.

Compliance with the emission limits is based on requirements that the facility maintain records of material usage along with calculating VOC and acetone emissions on an monthly and 12-month rolling time period.

The facility provided records of material usage and monthly and 12-month emissions. VOC emissions for the 12-month period ending in December 2019 were 19.45 tons, while acetone emissions were 9.14 tons.

The permit limits VOC content of the coating to 4.7 lb./gallon (minus water). The facility only uses one coating, which has a VOC content of 4.7 lb./gallon (minus water).

Testing/Sampling

The facility supplied Safety Data Sheets for the web coating during the recent permit modification. The facility

previously submitted a written request to allow for the use of manufacture's formulation data to determine the VOC content of the coating.

Reporting


The facility provided notification that installation of the new booth had been completed via e-mail communication.

Stack/Vents

Booth#1 has two stacks that are required to have a maximum diameter of 24 and 18 inches, respectively and a minimum height of 25 feet. Booth#2 has one stack that is required to have a maximum diameter of 24 inches and a minimum height of 25 feet. Observation of the stacks showed that they appeared to meet the requirements.

Conclusion

Based on the information and observations made during this inspection, the facility is in compliance with applicable air quality rules and regulations.

NAME 

DATE 1/21/20

SUPERVISOR 