

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

N750464384

<b>FACILITY:</b> MAGIGLIDE INC		<b>SRN / ID:</b> N7504
<b>LOCATION:</b> 257 INDUSTRIAL PARK RD, CRYSTAL FALLS		<b>DISTRICT:</b> Marquette
<b>CITY:</b> CRYSTAL FALLS		<b>COUNTY:</b> IRON
<b>CONTACT:</b> Dennis Box , Owner (2019)		<b>ACTIVITY DATE:</b> 07/28/2022
<b>STAFF:</b> Joe Scanlan	<b>COMPLIANCE STATUS:</b> Compliance	<b>SOURCE CLASS:</b> MINOR
<b>SUBJECT:</b> Unannounced inspection to determine compliance with PTI 427-75		
<b>RESOLVED COMPLAINTS:</b>		

**REGULATORY AUTHORITY**

Under the Authority of Section 5526 of Part 55 of NREPA, the Department of Environment, Great Lakes, and Energy may upon the presentation of their card, and stating the authority and purpose of the investigation, enter and inspect any property at reasonable times for the purpose of investigating either an actual or suspected source of air pollution or ascertaining compliance or noncompliance with NREPA, Rules promulgated thereunder, and the federal Clean Air Act.

**SOURCE DESCRIPTION**

The company produces flat-panel, solid-core bifolding closet doors in two thicknesses, 3/4" and 1 1/8". The company also produces pivot and bypass closet doors, modular wood handrail systems, and shelving. The facility purchases particle board from a manufacturer in North Carolina, then assembles and finishes the doors onsite.

**REGULATORY ANALYSIS**

Wood working processes are covered under PTI 427-75. The facility operates a wood fired boiler during cold months to heat the building. The boiler is rated at less than 1 MmBTU/hr when burning wood and operates under PTI exemption R336.1282(2)(b)(iii).

**EMISSIONS**

Potential emissions are particulate matter from wood processing and the burning of wood. Opacity is restricted to 20% sourcewide.

**EMISSIONS REPORTING**

This facility is not required to report to MAERS.

**COMPLIANCE**

On May 2, 2018, the facility was inspected and found to be in violation of Rule 201 for failure to properly operate the wood fired boiler under PTI exemption R336.1282(b)(iii) and Rule 301 for observed visible emissions (from the boiler) greater than 20%. The facility responded to the violation notice on July 12, 2018, stating they found a contract to purchase wood for fuel and would start meeting the exemption requirement to burn 75% or greater untreated wood.

During an inspection on December 19, 2018, it was noted the facility continued to burn greater than 25% particle board in the wood fired boiler. A second VN was issued on January 3, 2018. To achieve compliance the facility must apply for a permit to use particle board at a throughput greater than 25% and provide records of fuel usage or the facility must obtain non-manufactured wood for fuel. The facility has not applied for a PTI.

**INSPECTION**

On July 28, 2022 AQD staff conducted an onsite inspection at Magiglide Inc., located at 257 Industrial Park Road, Crystal Falls (Amasa), Michigan. There were no environmental staff or management onsite at the time of inspection, however the secretary in the front office granted me permission to examine the dust collector and wood boiler, which are located on the outside of the facility.

This inspection was scheduled to verify compliance with Permit to Install (PTI) 427-75 and permit exemption Rule 282(2)(b)(iii). PTI 427-75 has only two Special Conditions (SC):

- SC 9: Visible emissions are limited to an opacity of less than or equal to 20% except as specified in Rule 336.41.
- SC10: Rule 44 – The particulate emission rate from wood working shall not exceed 0.1 pounds per 1000 pounds of exhaust gases, calculated on a dry basis.

At the time of permitting, the facility was using a Torit Series 130 self-contained dust collector. The facility recently replaced the Torit dust collector with a new Parker Dust Hog modular industrial baghouse (MIB) to remove particulates from the dust collection system and recycle warm air back into the building. The baghouse is exempt from permitting under Rule 285(2)(d) because the replacement of air pollution control equipment is more efficient equipment.

Air from the manufacturing plant enters the discharge hopper of the baghouse. Larger particulates and cake from the baghouse filters fall to the bottom of the discharge hopper where the material is then blown into a large enclosed truck trailer. The trailer doors are equipped with an inlet and outlet duct connected to the same blower in order to maintain neutral pressure inside the trailer. Air entering the discharge hopper passes through the filters in the baghouse before being returned to inside the manufacturing plant. Ducts entering and exiting the facility and baghouse have spark detection modules installed. The unit was installed professionally and the area surrounding it was very clean. No indoor air is discharged to the outside atmosphere; therefore SC 10 is not applicable. The unit was in operation at the time of inspection and no visible emissions were observed.

The outdoor wood boiler was not operating at the time of inspection; however, it was noted that a supply of split firewood was stacked near the boiler. The facility only burns seasoned firewood and/or hardwood slab scrap from a local sawmill in the wood boiler. This meets the Rule 282(2)(b)(iii) permit exemption.

## CONCLUSION

The facility is in compliance with PTI 427-75 and Rule 282(2)(b)(iii) permit exemption and applicable Michigan Air Pollution Control Rules.



**Image 1(1)** : Dust Hog MIB



**Image 2(2)** : Wood Boiler

NAME Joseph Seaman

DATE 9/7/2022

SUPERVISOR Michael Kaplan