

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

A099941776

FACILITY: MICHIGAN MAPLE BLOCK CO		SRN / ID: A0999
LOCATION: 1420 STANDISH AVE, PETOSKEY		DISTRICT: Gaylord
CITY: PETOSKEY		COUNTY: EMMET
CONTACT: Dan Simon		ACTIVITY DATE: 09/20/2017
STAFF: Becky Radulski	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: FY inspection and records review		
RESOLVED COMPLAINTS:		

Traveled to A0999 Michigan Maple Block on September 20, 2017 to determine compliance with several PTI's issued to the source as part of a FY17 minor source inspection. The source is located at 1420 Standish Ave, Petoskey, Emmet County.

Present for the inspection was Dan Simon (231-347-4170, dan@mapleblock.com) and AQD Staff Becky Radulski. Dan has been with Michigan Maple Block for 43 years.

Michigan Maple Block builds several wood products including wood counters (prefab and custom) and cutting boards with various wood types. There are approximately 55 employees. The facility operates production with 1 8-hour shift. The boiler is operated 24 hours a day/7 days per week.

The source has the following active permits:

- PTI 308-81 – dust collector system
- PTI 532-89 – UV coating line
- PTI 823-93 – Boiler
- PTI 268-04 – new paint booth

Upon arrival at the plant the various emission points were observed. The facility was operating, no visible emissions were noted. Records were reviewed in a conference room, followed by a facility tour.

PTI 308-81, the dust collection system. The dust collection system consists of two cyclones and two baghouses. Only the cyclones emit to atmosphere. Both cyclone stacks are visible from the parking lot and were observed. The baghouses exhaust to the sawdust silo. The baghouses have long term bags and are replaced approximately every 4 years. Bags were replaced on one of the baghouses in mid-September 2017; bags will be replaced in the other baghouse during the next weekend with temperatures around 50 degrees F.

SC 10 - limits visible emissions to 20%. No visible emissions were observed.

SC 11- limits particulate matter (PM) emissions to 0.10 pounds per 1,000 pounds of exhaust gases, calculated on dry gas basis. No testing is required or has been requested by AQD at this time to confirm this condition.

PTI 532-89, the UV coating line, which is a roller system. The UV line was observed from the back of the plant. There are 5 stacks that emit from this line to atmosphere. The lines were observed outside the building. No opacity was observed.

SC 14 – requires the volatile organic compound (VOC) emission rate from each line to not exceed 4.5 lb/hr nor 0.4 tons/year. Records were reviewed with Dan, the UV line uses a seal coat (342 gallons at 0.05 lbs VOC/gallon = 17.1 lbs per 12 month period) and a top coat (323

gallons at 0 lbs VOC/gallon = 0 lbs per 12 month period). This meets the limit for both the tons/year and lb/hr rates.

SC 15 – requires no visible emissions. Stacks were observed and no emissions noted.

SC 16 – requires the plant to have filters in place in order to operate the paint booth. The paint booth in the UV line has been removed so this condition does not apply.

SC 17 – requires paint usage and VOC content be kept for 2 years. Records are kept.

PTI 823-93, boiler. The boiler is used for heat inside the building year-round; during the summer it is generally only used for wood drying. The boiler unit was viewed, and is labeled as a Hurst boiler. Dan thought the unit was installed in 1994, which correlates to the permit date of 1993. The boiler is subject to 40 CFR Part 60 Subpart Dc. The boiler was originally set up to have blowers blow the sawdust in from the silo. However the boiler feed was changed following a fire around 2001 according to 8/28/2002 inspection notes. Now the sawdust is fed to the boiler using a screw conveyor system. The old silo is no longer used for sawdust storage; the old boiler room has been converted to sawdust storage and is fitted with a spark detection system. The silo room is located adjacent to the boiler.

SC 15, 16 and 18 – (SC15) limits the benzo-a-pyrene emissions and particulate matter emissions to 0.013 milligrams/cubic meter and (SC16) 0.18 pounds/1000 pounds of exhaust gases, respectively. (SC 18) requires testing at the request of AQD to confirm compliance with SC 15 and 16. No request for testing has been made at this point.

SC 17 – visible emissions must not exceed 15%. Visible emissions were observed from the stack, no emissions were noted over a 6-minute period.

SC 19 – must comply with 40 CFR Part 60 Subpart Dc. Subpart Dc requires monitoring/recordkeeping that is being maintained at the site.

SC 20 – requires the cyclone to be in operating – there is a cyclone on the boiler system that was operating on the ash collection system. The cyclone into the boiler is no longer needed as the blower system was replaced with a screw-conveyor system.

SC 21 – requires the boiler ash to be collected in a manner that minimizes the introduction of contaminants to the outer air. Ash from the boiler is collected in 55-gallon drums inside an enclosed storage area. The drums are picked up approximately once per week by Daniels Pig and Dig, which uses the ash to mix with mulch to make black dirt.

SC 22 – the boiler exhaust shall be minimum 85 feet high, maximum 16 inches diameter. Based on visual estimates, the stack appears to meet these requirements. No changes have been made to the stack.

SC 23 – no other boiler shall be operated while the wood-fired boiler is operating. There is only one boiler onsite, not other boilers are present.

PTI 268-04, spray booth. A spray booth was installed in 2004. This appears to be a general permit. During the inspection product was in the spray booth but spray was not being applied. SC I requires dry filters or a water curtain, high volume-low pressure sprayers (HVLP) and exhaust to emit vertically at 1.5 times the building height. Filters are present on the entire wall of the booth, filters were changed approximately 3 weeks ago and appear to be in good condition. The site uses HVLP spray applicators. The stack exited vertically, appears to meet this condition based on observation.

SC II.1 limits VOC emissions to 2000 pounds/calendar month and 10 tons per year. Records were reviewed onsite, the past 12 months emitted 2.3 tons VOCs and were under 2,000 lbs per month.

SC II.2 limit VOC emissions to 30 tons per year from all coating lines onsite. Emissions from the paint booth and UV line combine to less than 3 tons per year.

SC III.1 requires the site to track the purchase orders/invoices/VOC usage as required in the permit. Records were discussed with the facility and kept onsite.

The remaining conditions of the general permit pertain to sources with thermal or catalytic oxidizers, which this source does not have.

The source submits to MAERS – MAERS was reviewed separately. This is a Category II Fee source due to being subject to Subpart Dc.

MACES was updated with contact information and regulatory information.

Based on the site inspection and records review, the source is in compliance with its permits at this time.

NAME Becky Kadulski

DATE 9/20/17

SUPERVISOR SN

