

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

N139354676

FACILITY: BESSEMER PLYWOOD CORP		SRN / ID: N1393
LOCATION: 1000 YALE AVE, BESSEMER		DISTRICT: Marquette
CITY: BESSEMER		COUNTY: GOGEBIC
CONTACT: BERNARD SMITH , PLANT MANAGER		ACTIVITY DATE: 08/13/2020
STAFF: Sydney Bruestle	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Onsite Inspection to Verify Compliance with PTI 202-04 and all other applicable state and federal air quality regulations.		
RESOLVED COMPLAINTS:		

On August 13, 2020 I (Sydney Bruestle) performed an onsite inspection at Bessemer Plywood, located at 1000 Yale Ave, Bessemer Michigan. While onsite I met with Bernard Smith, General Manager at Bessemer Plywood and Paul Wolfe. Mr. Smith gave me a tour of the plant and provided me with records required by Permit to Install (PTI) 202-04.

**Facility Description:**

Bessemer Plywood manufactures various sizes and types of plywood. Operations onsite include two 26.8 MMBTU/hr wood fired boilers with multiclone collector, one 12.6 MMBTU/hr natural gas boiler, 3 dryers, a sander, a stacker, and a glue spreading machine. The facility only operates one boiler at a time, they tend to switch between wood boiler 1 and wood boiler 2 every few weeks.

**PTI 202-04:**

Below is a summary of the records required by PTI 202-04 and the equipment covered.

**EUWOODBOILER1 & EUWOODBOILER2:**

EUWOODBOILER1 is a 26.8 MMBtu/hr wood fired boiler with a multiclone collector. EUWOODBOILER2 is a 21.9 MMBtu/hr wood fired boiler with a multiclone collector. Stack testing was done in 2005.

Emission Factors from 2005  
Stack Test

Boiler/Pollutant	Emission Factor
Boiler 1/PM	14.02 lb/hr
Boiler 1/PM10	14.53 lb/hr
Boiler 2/PM	1.96 lb/hr
Boiler 2/PM10	2.02 lb/hr

The facility only burns unpainted/untreated wood in both Boiler 1 and 2, they track wood fuel usage daily and are limited to 30 dry tons of wood fuel in EUWOODBOILER per calendar day: I checked these records while onsite all days were below 30 tons two days I recorded: January 13, 2020: 21.96 tons (for the day) August 11, 2020: 16.0 tons (for the day). There are two multiclones that operate when the boilers are in use.

**EUGASBOILER:**

The facility only uses the natural gas boiler when the two wood boilers are down. This boiler only burns sweet natural gas. There is a fabric filter dust collector installed and maintained for pollution control.

**EUDRYER3:**

EUDRYER3 is a wood veneer dryer heated with a natural gas fired 16 MMBtu/hr heat input burner. Bessemer Plywood continually monitors the operating temperature of dryer 3. The temperature

observed onsite was 130 degrees F which is below the permit limit of 450 degrees F max temp.

**EUSANDER:**

EUSANDER is a surface refinishing for plywood product, controlled with two cyclone/bag filters in parallel. The facility tracks hours of operation for the sander. I reviewed these records while onsite. In July 2020, the facility averaged 7.5 hours daily.

**EUSTACKER:**

EUSTACKER is a vacuum lift system that lifts green veneer sheets off the green chain and carries them to a stacker where the sheets are stacked, emissions are controlled by a cyclone. This unit is limited Visible emissions of 5% opacity or less, there were no visible e missions at the time of my inspection.

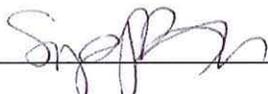
**EUGLUESPREADER:**

EUGLUESPREADER included two 60 inch globe glue spreaders. Emissions are vented inside. During my inspection there were no visible emissions from this unit. The permit limits the facility to 500,000 lbs of resin per calendar month. I checked these records while onsite: In July 2020 the facility used 250,310 lbs of resin In January 2020 the facility used 291,322 lbs of resin. The facility also tracks hours of operation for the glue spreader: July 2020: 496 hours January 2020: 552 hours. I have attached VOC records for EUGLUESPREADER to the hard copy of this report. The facility tracks VOC content of each resin and calculates VOC emissions on a monthly basis. The facility is limited to 3.0 tpy VOC emissions from EUGLUESPREADER. July 2020: 1.54 tons/year VOC, January 2020: 1.73 tons/year.

**FGWOODBOILERS:**

EUWOODBOILER1 and EUWOODBOILER2 are limited to 13,500 tons of fuel per year, in 2019 the facility used 9,875.2 tons of fuel (records attached). Records for fuel usage are attached to the hard copy of this report. PM/PM10 emission limits for both boilers: 570 lb/calendar day: August 2020: PM: 336.48 lb/day PM10: 348.72 lb/day. 2019 PM emissions for both boilers (12 month): 29.6 tons. 2019 PM10 emissions for both boilers (12 month): 30.6 tons (records attached to the hard copy of this report)

At the time of my inspection is appeared Bessemer Plywood was in compliance with PTI 202-04 and all other applicable state and federal air quality regulations.

NAME 

DATE 9-9-20 SUPERVISOR 