

DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION
ACTIVITY REPORT: Self Initiated Inspection

B702333655

FACILITY: BAY CAST INC		SRN / ID: B7023
LOCATION: 2611 CENTER AVE, BAY CITY		DISTRICT: Saginaw Bay
CITY: BAY CITY		COUNTY: BAY
CONTACT: Max Holman , President -General Manager		ACTIVITY DATE: 03/08/2016
STAFF: Gina McCann	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Self-initiaed inspection of casting finishing facility to determine compliance with PTI # 329-86 (shot blast process) and PTI # 327-86 (annealing furnace).		
RESOLVED COMPLAINTS:		

I (glm) conducted a self-initiated inspection at the Center Avenue Bay Cast Facility. I was accompanied by Bay Cast Incorporated President & General Manager, Max Holman, Foundry Manager, Jason Holman, and Human Resources Manager, Alicia Fonzi.

The Bay Cast Center Avenue facility processes include a gas-fired annealing furnace, shot blast process, welding, and machining.

We viewed equipment associated with PTIs #328-86 and 329-86, and various exempt equipment . There were no violations of the air permits found during the inspection. The facility is a true minor source.

DESCRIPTION:

The Bay Cast Incorporated Center Avenue, Bay City, Michigan facility is a job shop steel casting finishing facility. The facility receives castings of up to 60,000 pounds from the Bay Cast Webster Street facility in Bay City. The custom castings are used by the mining, steel milling, offshore oil drilling, construction, and, aerospace industries. Large valves, chocks, roll crushers, swing levers, pump casings and pipe, and automotive dies are some of the items the site finishes.

FINDINGS**PTI#329-86: Compliant**

The permit was issued for a shot blast chamber with emissions controlled by an 18700 acfm fabric filter baghouse with collection hoppers. The facility is a minor source of total particulate with an estimated PTE of 18.1 tons/year. The facility is limited to emissions of 0.5 pounds/ 1000 pounds exhaust gas. The shot blast exhaust VE shall not exceed 10% opacity. The facility is a minor source of total particulate with an estimated PTE of 18.1 tons/year.

The shot blast process was not operating during the site visit. Air is drawn toward the back of the blast chamber. The exhaust is sent to the baghouse. There is a magnehelic on the side panel of the shot blast equipment. No monitoring frequency or records are required by the PTI. The baghouse hoppers are emptied about once routinely and the collected material is disposed of by Republic Services. There were no indications of improper collection, handling, or disposal of material collected in the baghouse.

PTI#328-86: Compliant

This permit was issued for a 12 MMBTU natural gas fired annealing furnace. The furnace does not have a control device. VEs are limited to a 6 minute 20% opacity. The PTI does not contain any monitoring frequency or recordkeeping requirements.

Exempt Equipment

The facility installed a second natural gas fired annealing furnace in 2012. We viewed the furnace during the inspection. The heat treat furnace is fired only by sweet gas fuel, with a maximum total heat input rate of 4.5 MMBtu/hr, and does not involve molten materials, oil-coated parts, or oil quenching. Therefore, the facility maintains the equipment is exempt from R201 permitting under R282(a)(i). A copy of the exemption demonstration provided to the facility by BTEC, Inc. dated March 27, 2012, is in the hard copy folder.

Welding and grinding activities were also viewed during the inspection.

NAME



DATE

3/15/16

SUPERVISOR

