

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

B864250220

FACILITY: Wyman-Gordon Company		SRN / ID: B8642
LOCATION: 7250 Whitmore Lake Road, BRIGHTON		DISTRICT: Lansing
CITY: BRIGHTON		COUNTY: LIVINGSTON
CONTACT: Bill Donahue , General Manager		ACTIVITY DATE: 08/06/2019
STAFF: Samantha Braman	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Unannounced, scheduled inspection for compliance with PTI Nos. 124-15, 388-93, 679-84A, 795-81, and 248-81.		
RESOLVED COMPLAINTS:		

Meeting Summary for:

B8642 Wyman-Gordon
7250 Whitmore Lake Rd
Brighton, MI 48116

Facility Contacts:

Paul Nelson, Quality Manager / Environmental – pnelson@wyman.com
Bill Donahue, General Manager, 810-900-4126, William.donahue@wyman.com
Mike Smith, General Manager (will be taking over for Bill), MHSmith@wyman.com

Facility Location Summary:

Near exit 58 (Lee Road) on US23. The property is behind another business, both facing US 23 to the east. To the west and southwest is a neighborhood within 200 feet of the Wyman Gordon building. The north and south sides of the facility is open and forested property with sporadically spaced businesses.

Safety Equipment:

Hard hat, safety glasses, ear plugs, steel toe boots, long sleeves.

Process Description:

Wyman-Gordon's is a specialized metal industry. The product is commonly used for gearing and/or blades in turbine engines for the aviation industry.

Clean nickel alloy ingots are received from a source in Muskegon by the plant. The ingots are approx. 3 feet long and 5 inches in diameter. The intent of Wyman Gordon's process is a homogenous product to withstand strict metal standards required of its customers.

The vacuum induction furnace has space to melt 2 crucibles per heat via electric induction. Once melting is complete, the molten nickel is then poured into a onetime use ceramic funnel all under argon filled vacuum. The funnel has a screen at the bottom to allow separate streams of molten metal that is then further separated by injected argon gas which causes a powdering/atomizing effect. As the argon hits the molten metal it also cools it. The powder then falls down a cylinder for further cooling and collection with the goal of being solid upon impact at the bottom process is captured by a reclaim system.

The operation is 24hrs/day, 7 days/week with up to 7 heats per day.

Inspection/Permit Discussion:

Arrived on site at 9:20. There were no odors or visible emissions. We met with Bill Donahue, General Manager. We went over the inspection process, and he explained about the products that Wyman Gordon makes. We then toured the facility with Paul Nelson, Metallurgy Manager.

Bill later notified me that he would be leaving Wyman-Gordon, and Mike Smith would be his replacement.

During my visit I witnessed where the scrubber used to be and is no longer present, therefore PTI 248-81 can be voided.

Any argon that is released, they try to reclaim to reuse.

Both permits have been voided:

PTI 795-81 – vapor degreaser – dismantled 1993

PTI 248-81 – nitric acid etching system with a caustic scrubber– dismantled 1991

PTI 679-84A

This permit is for Atomizer Tower A. Tower A gets about 6 heats off it in a day. They weigh it after every heat, and if it is off, even by 10lbs, then something is wrong and they recycle that material. Data was provided to me for the pressure drop data from 2018-2019 for the baghouse of Tower A. This tower was operating during my visit.

Argon is vented two times per year. All metal scrap is sold to metal recover business.

PTI 388-93

I did not witness any visible emissions from the water evaporator. They no longer use acid solutions in the evaporator.

PTI124-15

This permit was issued because Wyman-Gordon added a second atomizer tower, known as Tower B. A Malfunction Abatement Plan was provided to me for the baghouse for Tower B, as I could not find a copy on file. Also provided to me was the data for the pressure drop data from 2018-2019 for the baghouse of Tower B. The baghouse filters are changed every couple years.

Emission Units and Applicable Regulations:

Atomization process, PTI 124-15

Atomization process, PTI 679-84A

Samsco SWE-II 500 Series 0.2mmBtu water evaporator, PTI 388-93

Electro-polishing Acid Bath; Rule 285(r)

3 band saws; Rule 285(l)(vi)(B)

Lathes with panel filters; Rule 285(l)(vi), or Rule 290

Attached to the hard copy of this report is correspondence requesting to void PTI Nos. PTI 795-81 and PTI 248-81.

Based on this information, it appears Wyman-Gordon is in compliance with PTI Nos. 388-93, 679-84A, and 124-15.

NAME Samuel H. Brunner

DATE 9/5/19

SUPERVISOR B.M.