

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

N78413779

FACILITY: PICOMETRIX LLC		SRN / ID: N7841
LOCATION: 2925 BOARDWALK, ANN ARBOR		DISTRICT: Jackson
CITY: ANN ARBOR		COUNTY: WASHTENAW
CONTACT: Jim Beal, Facilities Manager		ACTIVITY DATE: 11/30/2016
STAFF: Zachary Durham	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Scheduled, unannounced inspection of PTI 244-07.		
RESOLVED COMPLAINTS:		

Contact

Jim Beal
 Facilities Manager
jbeal@picometrix.com
 (734)864-5627

Purpose

This was a scheduled, unannounced inspection of the facility located at 2925 Boardwalk, Ann Arbor, MI 48104 and owned by the company, Picometrix. Mike Kovalchick and I arrived at about 11:15am on 11/30/16 to inspection conditions of Permit to Install (PTI) No. 244-07. We met with Jim Beal, Facilities Manager, whom led us on a walkthrough of the facility.

Background

The facility produces high speed photo detectors that are used in an array of communication devices to relay data. The process they use to manufacture the semiconducting wafers that make up the main component of their product is contained in a clean room. They currently have two lab benches where plating and etching of the wafers occurs. This is down from five as of several years ago. The acids used in these processes are routed to the scrubber that is identified in PTI 244-07.

Compliance Evaluation

EUCLEANROOM

This is the emission unit (EU) for the manufacturing processes associated with semiconductor wafer production. This EU identifies that the scrubber controlling acid and base mists from the cleanroom shall be monitored for pH, liquid flow rate, and pressure drop on a continuous basis. They are also required to keep an operation and maintenance plan for the scrubber unit. Attached is the data for the last 12 months of scrubber operation, which is tracked continuously and connected to an alarm mechanism if liquid flow drops below their set point. The data is logged manually in a spreadsheet once a week. Also attached is the Scrubber Water Flow Calibration procedure that is used periodically to calibrate the liquid flow rate to the unit.

Summary

After arrival, Jim Beal walked us through the facility and described the process controlled by the scrubber. The scrubber appeared to be in good working condition at the time of inspection. The caustic solution they inject into the scrubber to maintain a relatively high pH to control for acid mists is added at a very slow rate because they receive water from the City of Ann Arbor at a pH of about 9.3. During the inspection I observed the control panel indicating a scrubber pH of 9.74, flow of about 120 gpm, and pressure drop of 3.5" w.c.

Following the walkthrough, we went to Jim's office where I requested necessary record keeping documents, which he provided to me via email. Mike and I then left the facility.

Compliance Determination

After review of the requested records and on-site inspection, I have determined Picometrix to be in compliance with PTI 244-07.

NAME *Tack Durham*

DATE *12/1/16*

SUPERVISOR *[Signature]*