

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

B233124103

FACILITY: Michigan State University - Bioeconomy Institute		SRN / ID: B2331
LOCATION: 242 Howard Avenue, HOLLAND		DISTRICT: Grand Rapids
CITY: HOLLAND		COUNTY: OTTAWA
CONTACT: Tom Bauer , Site Manager		ACTIVITY DATE: 01/16/2014
STAFF: April Lazzaro	COMPLIANCE STATUS: Compliance	SOURCE CLASS: SM OPT OUT
SUBJECT: Unannounced, scheduled inspection.		
RESOLVED COMPLAINTS:		

Staff April Lazzaro arrived at the facility to conduct an unannounced, scheduled inspection and met with William Freckman, Director of Operations, Tom Bauer, Environmental Compliance Officer and Amy Stevens, Environmental Engineer. Staff presented them with the DEQ Environmental Inspections: Rights and Responsibilities brochure and discussed its contents.

FACILITY DESCRIPTION

Michigan State University Bioeconomy Institute (MSU) is a research and contract manufacturing facility consisting of a pilot plant, laboratory space and offices operating under Opt-out Permit to Install No. 267-09. The pilot plant consists of three buildings from which emissions are ducted to one of the three scrubbers. Two small dust collectors are also maintained for particulate control.

COMPLIANCE EVALUATION

Mr. Bauer and Ms. Stevens provided staff with a facility tour and information on equipment observed. Various vessels are contained in the pilot plant, in buildings identified as 100 (largest), 200 and 300 (smallest). The three scrubbers are maintained outside the 200 building. These were observed to appear well maintained. None of the scrubbers were in operation at the time of the inspection to verify operational parameters. However, Ms. Stevens stated that there are audible and visible alarms if a problem occurs. One of the two baghouses was observed and was in good condition. These are very small units and are oversized for the current uses. Pressure drop is recorded manually before and after use, and both are maintained with the facility preventative maintenance system.

There has been no change to the two NSPS Dc subject boilers. Ms. Stevens will continue to maintain fuel usage records.

EUPILOTPLANT

EMISSION LIMITS

Emission limits contained in this PTI include VOC, PM, Total HAPs, Individual HAP and PM10.

VOC's are limited to 89 tons per year. Current 12-month rolling VOC emissions are reported at 222.05 pounds or 0.11 tons. Total HAPs are limited to 22.4 tons per year. Current 12-month rolling total HAP emissions are reported at 140.62 pounds or 0.07 tons. Individual HAP is limited to 8.9 tons per year. Current 12-month rolling highest individual HAP emissions is hexane reported at 100 pounds or 0.05 tons.

EUPILOTPLANT also utilizes the emission limit table based on screening level ranges and averaging periods per pollutant for the scrubbers and dust collectors as described. An example of this recordkeeping has been provided and appears acceptable. This will be further evaluated during the next inspection.

PROCESS/OPERATIONAL RESTRICTIONS

The facility has submitted an acceptable Operation and Maintenance (O & M) Plan.

DESIGN/EQUIPMENT PARAMETERS

The operation of equipment was described during the inspection, and while the control devices were not in operation at the time of the inspection, facility staff had assurance that it was being properly operated per the O & M plan.

TESTING/SAMPLING

NA

MONITORING/RECORDKEEPING

Monitoring of control devices was discussed and is adequate. Recordkeeping (attached) is being maintained in a satisfactory manner. Record of materials processed in the plant is being maintained by CAS number as specified.

REPORTING

NA

STACK/VENT RESTRICTIONS

Staff was assured that there have been no changes to the stack information as identified in the permit application.

CONCLUSION

The facility was in compliance at the time of the inspection.

NAME 

DATE 1-24-14

SUPERVISOR PAB