

M4313  
MAVILA

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

M431331465

FACILITY: APPLIED PROCESS, INC		SRN / ID: M4313
LOCATION: 12238 NEWBURGH RD, LIVONIA		DISTRICT: Detroit
CITY: LIVONIA		COUNTY: WAYNE
CONTACT: Gerald Hayward ,		ACTIVITY DATE: 01/29/2015
STAFF: Jill Zimmerman	COMPLIANCE STATUS: Compliance	SOURCE CLASS:
SUBJECT: Target Inspection		
RESOLVED COMPLAINTS:		

DATE OF INSPECTION : 1/29/2015  
 TIME OF INSPECTION : 10:00 am  
 LEVEL OF INSPECTION : II  
 NAICS CODE : 332811  
 EPA POLLUTANT CLASS : PM  
 INSPECTED BY : Jill Zimmerman  
 PERSONNEL PRESENT : Gerald Hayward, Plant Services Manager  
 EMAIL : ghayward@appliedprocess.com  
 FACILITY PHONE NUMBER : 734-464-2030  
 FACILITY FAX NUMBER : 734-464-6314  
 WEBSITE : [www.appliedprocess.com](http://www.appliedprocess.com)

### FACILITY BACKGROUND

Applied Process is a metal heat treat facility. The facility has been operating at the current location for more than fifteen years. The heat treat furnaces operate twenty-four hours a day, seven days a week.

### COMPLAINT/COMPLIANCE HISTORY

No complaints have been received regarding Applied Process. No Violation Notices (VN) have been issued to Applied Process.

### PROCESS EQUIPMENT AND CONTROLS

Applied Process operates six furnace lines. The furnaces are all very similar. The furnaces operate on natural gas. Metal parts are brought in from the customer. The parts are preheated to about 1100F. They then enter the furnace where they are heat treated. The parts are then put into a salt quench. Next the parts are washed, to remove any salt. The parts are then sent back to the customer. The salt is reclaimed and reused in the process. Sludge salt is disposed of off-site on an as needed basis.

### INSPECTION NARRATIVE

I arrived at the facility at 10:00 am. I did not smell any odors as I walked into the facility. When I entered the facility I met with Mr. Gerald Hayward, Plant Service Manager. Mr. Hayward explained the heat treat process to me as we walked through the facility. There are six furnace lines at the facility, with the most recent furnace installed in 2014. The furnaces operate on natural gas. The furnaces operate on a continuous basis. Next, we discussed the records that are kept, and a copy of the past 12 months of salt records was emailed to me.

### APPLICABLE RULES/PERMIT CONDITIONS

PERMIT 8-05

9/28/2015

- I. Emission Limits: Undetermined. The emissions limits are calculated using a monthly recordkeeping form which was included as Appendix 1 in the permit. A follow-up inspection at the facility should be completed to better determine how the records are kept and calculated.
- II. Visible Emission Limits: Compliance – During the onsite inspection, no VE's were observed from the furnaces.
- III. Material Usage Limits: Compliance – Records collected during the onsite inspection show that the most salt added during any month in 2014 was about 3990 pounds, which was added in both October and November. This amount is less than the permitted limit of 6000 pounds per month.
- IV. Recordkeeping/Reporting/Notification: Undetermined. The records collected during the onsite inspection appear to be incomplete. A follow-up inspection at the facility should be completed to better determine how the records are kept and calculated.

PERMIT 95-14

- I. Emission Limits: Undetermined. The facility calculates the PM emissions based on the entire facility, and it is not broken down by emission unit. It appears that the emissions are not being calculated correctly. A follow-up inspection at the facility should be completed to better determine how the records are kept and calculated.
- II. Material Limits: Undetermined. The facility tracks the quench salt based on the entire facility, and it is not broken down by emission unit. It appears that the quench salt records are not being calculated correctly. A follow-up inspection at the facility should be completed to better determine how the records are kept and calculated.
- III. Process/Operational Restriction: NA
- IV. Design/Equipment Parameters: NA
- V. Testing/Sampling: NA
- VI. Monitoring/Recordkeeping: Undetermined. The facility tracks salt quench records based on the entire facility, and it is not broken down by emission unit. It appears that the records are not being calculated correctly. A follow-up inspection at the facility should be completed to better determine how the records are kept and calculated.
- VII. Reporting: NA
- VIII. Stack/Vent Restriction: Compliance – The stacks were installed properly, and have not been changed since the initial installation.
- IX. Other Requirements: NA

#### MAERS REPORT REVIEW

MAERS is not required for this facility.

#### FINAL COMPLIANCE DETERMINATION

Applied Process appears to be operating in compliance with the permit conditions that were evaluated. A follow-up inspection should be completed in an effort to better understand the record keeping process at the facility.

NAME JAC

DATE 9/28/15

SUPERVISOR JK