

## Source Inspection Report

COMPANY: Calumet Abrasives, Inc.  
3039 169<sup>th</sup> Place  
Hammond, Indiana 46323  
(219) 844-2695

<u>*Violation(s) Observed (Y/N)?</u>	
<b>State</b>	No
<b>Local</b>	No

SOURCE ID NUMBER: 089-00297      INSPECTION DATE: February 13, 2017  
SOURCE CLASSIFICATION: Local/State      LEVEL: Annual  
Registered  
OPERATION PERMIT TYPE: Local/State      TYPE: 2  
Registered  
OPERATION PERMIT NO(s): Local  
03712  
State Registered  
R089-17113-00297  
ISSUE DATE(s): Local      INSPECTOR: Michael Zabrecky  
February 2, 2016  
State Registration  
March 10, 2003  
PERMIT REVISION DATE: N/A

REPORT WRITTEN BY: Michael Zabrecky

FACILITIES INSPECTED: Entire Plant

PERSON(s) INTERVIEWED: Ray Sparks, Production Manager

INSPECTION OBJECTIVE(s):

To perform an unannounced inspection to evaluate the Calumet Abrasives Inc.'s compliance with applicable air pollution regulations specified in their local operation permit.

SUMMARY OF INSPECTION:

On February 13, 2017, an Annual Inspection was conducted at Calumet Abrasives, Inc. This facility holds one (1) operation permit for a Bonded Abrasives Manufacturing Process.

During the inspection, three (3) mixers, two (2) screen tables, nine (9) presses, and the dust collector were in operation.

No emissions or violations observed.

## Source Inspection Report

Calumet Abrasives, Inc. - 2/13/2017

Plant ID: 089-00297

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### ENTRY INTERVIEW:

Upon entry, I met with Mr. Ray Sparks of Calumet Abrasives, Inc. and informed him that this is an Annual Inspection, and that I wanted to inspect the local and State Registered permitted items.

### INSPECTION OBSERVATION(s):

The Company manufactures circular grinding wheels used in portable power tools. The potential to emit of particulates from abrasive powder mixing is greater than five (5) tons and less than twenty-five (25) tons per year, therefore the source is subject to 326 IAC 2-5.5 - Registration.

1. Process Equipment:

One (1) Maternini Mixer  
One (1) screen table with a collection arm  
One (1) screen table with a collection hood  
Two (2) Hobart Mixers  
Three (3) Gilson Rotary Mixers  
Eleven (11) presses  
Seven (7) natural gas-fired curing ovens

2. Process Description:

This process has a maximum design rate of 92,500 small grind wheels (1.92 tons) per 36-hour batch. Particulate emissions from mixing and screening are controlled by a Donaldson-Torit Dust Collector. Seven (7) Curing Ovens (5.5 MMBtu/hr total) use natural gas only.

3. Pollutants Emitted:

Particulate matter (PM), sulfur dioxide (SO<sub>x</sub>), nitrogen oxides (NO<sub>x</sub>), volatile organic compounds (VOC), and carbon monoxide (CO)

4. Control Equipment:

Donaldson-Torit Cartridge Filter Dust Collector  
No controls for the curing ovens.  
No controls for the Hobart Mixers.  
No controls for the presses.

5. Applicable Rules:

326 IAC 2-5.5 (Registration), 326 IAC Article 2 (Permit Review Rules)  
Hammond Ordinances #7102 (Hammond Environmental) and #3522 (as Amended)(Hammond Air Pollution Control)

6. Emission Limitations:

PM	= 2.602 lbs/hr	= 11.397 Tons Per Year (TPY)
SO <sub>x</sub>	= 0.003 lbs/hr	= 0.014 TPY
NO <sub>x</sub>	= 0.550 lbs/hr	= 2.409 TPY
VOC	= 1.761 lbs/hr	= 7.714 TPY
CO	= 0.462 lbs/hr	= 2.024 TPY

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Calumet Abrasives, Inc. - 2/13/2017

Plant ID: 089-00297

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7. Other Permit Requirements:  
See the General and Special Operation Permit Conditions for 2016.
  
8. Observations:  
The following permitted units were in operation, one (1) Maternini Mixer, two (2) Hobart Mixers, two (2) screen tables, and nine (9) of the eleven (11) presses.  
  
Adequate airflow and current was checked. No holes or leaks were found. The pressure drop reading across the collector was read at 2.2 "H<sub>2</sub>O.  
  
No visible emissions or modifications were found.
  
9. Records Review:  
Copies of the following were obtained for review:  
See Special Operation Permit Condition #2
  
10. Compliance Status: No violations observed or determined during the plant walkthrough. No violations noted during review of records.

### **CONCLUSION(s)/RECOMMENDATION(s):**

No violations, visible emissions or new sources of emissions were observed during the inspection.