

## Source Inspection Report

COMPANY: Refractory Service Corporation  
4902 Calumet Avenue  
Hammond, Indiana 46327  
(219) 853-0885

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

SOURCE ID NUMBER: N/A                      INSPECTION DATE: July 21, 2016  
SOURCE CLASSIFICATION: Local                      LEVEL: 2  
OPERATION PERMIT TYPE: Local                      TYPE: Annual  
OPERATION PERMIT NO: 03689  
ISSUE DATE: January 22, 2016                      INSPECTOR: Michael Zabrecky  
PERMIT REVISION DATE: N/A  
REPORT WRITTEN BY: Michael Zabrecky

FACILITIES INSPECTED: Entire Plant

PERSON(s) INTERVIEWED: Jeff Bianchi, Plant Manager

INSPECTION OBJECTIVE(s):

To perform an unannounced inspection to evaluate Refractory Service, Corporation's compliance with applicable air pollution regulations specified in their local operation permit.

SUMMARY OF INSPECTION:

On July 21, 2016, an annual inspection was conducted at Refractory Service Corporation. This facility holds one (1) operation permit for a Castable Refractory Shapes Production Process.

Six (6) welding stations were the only permitted items in operation. No excessive visible emissions observed. No modifications found.

No violations observed.

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Refractory Service Corporation - 6/21/2016

Plant ID: N/A

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### ENTRY INTERVIEW:

Upon entry, I met with Jeff Bianchi, the Plant Manager for Refractory Service Corporation. I informed him that this is an annual inspection and that I wanted to inspect the locally permitted process.

### INSPECTION OBSERVATION(s):

1. Process Equipment: Castable Refractory Shapes Production Process
2. Process Description:  
This process includes spent castable refractory crushing, steel lance preparation (cutting and welding), wet mixing and casting lances, and lance curing and drying. Emission units are as follows: one (1) torch cutting operation, twelve (12) welding stations, three (3) wet mixers with a maximum design rate of 3 tons/hr (only two (2) wet mixers are used at any given time), three (3) vertical curing ovens rated at 0.15 MMBtu/hr each, two (2) vertical staging ovens with no natural gas burners, and one (1) horizontal dryer rated at 5 MMBtu/hr, with an afterburner rated at 5 MMBtu/hr for VOC and opacity control. The horizontal dryer has two (2) compartments. Each compartment can hold 40 lances and cures for 36 hours. The maximum design rate of the process is 2 tons/hr due to the required drying time. All combustion units burn natural gas only.
3. Pollutants Emitted:  
Particulate matter<sub>10 microns</sub> (PM<sub>10</sub>), volatile organic compounds (VOC), sulfur dioxide (SO<sub>2</sub>), nitrogen oxides (NOx), and carbon monoxide (CO)
4. Control Equipment:  
An afterburner is used with the Horizontal Dryer to control opacity and volatile organic compounds (VOC).
5. Applicable Rules:  
The provisions of 326 IAC Article 2 (State Permit Review Rules) and Hammond Ordinances #7102 (Environmental Management) and #3522 (as Amended) (Air Pollution Control)
6. Emission Limitations:

PM <sub>10</sub>	= 0.430 lbs/hr	= 1.870 Tons Per Year (TPY)
VOC	= 0.160 lbs/hr	= 0.690 TPY
SO <sub>2</sub>	= 0.010 lbs/hr	= 0.030 TPY
NOx	= 1.370 lbs/hr	= 6.000 TPY
CO	= 0.880 lbs/hr	= 3.860 TPY
7. Other Permit Requirements:  
See the General Operation Permit Conditions for 2016.
8. Observations:  
The only process operating were six (6) welding stations. No excessive

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visible emissions observed. No modifications found from any other items listed in the permit.

9. Records Review:  
No records review is required.

10. Compliance Status:  
No violations observed or determined during the plant inspection.

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

The entire facility was inspected. No violations, visible emissions, or new sources of air emissions were observed.