



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

TITLE V/STATE OPERATING PERMIT

Issue Date: November 5, 2015 Effective Date: November 27, 2018
Revision Date: November 27, 2018 Expiration Date: ~~November 30, 2020~~
Revision Type: Modification

In accordance with the provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and 25 Pa. Code Chapter 127, the Owner, [and Operator if noted] (hereinafter referred to as permittee) identified below is authorized by the Department of Environmental Protection (Department) to operate the air emission source(s) more fully described in this permit. This Facility is subject to all terms and conditions specified in this permit. Nothing in this permit relieves the permittee from its obligations to comply with all applicable Federal, State and Local laws and regulations.

The regulatory or statutory authority for each permit condition is set forth in brackets. All terms and conditions in this permit are federally enforceable applicable requirements unless otherwise designated as "State-Only" or "non-applicable" requirements.

TITLE V Permit No: 67-05001

Federal Tax Id - Plant Code: 23-0380777-1

Owner Information

Name: MAGNESITA REFRACTORIES CO
Mailing Address: 425 S SALEM CHURCH RD
YORK, PA 17408-5955

Plant Information

Plant: MAGNESITA REFRACTORIES/YORK
Location: 67 York County 67963 West Manchester Township
SIC Code: 3297 Manufacturing - Nonclay Refractories

Responsible Official

Name: JUSTIN BUCKS
Title: VP OPERATIONS
Phone: (717) 793 - 5420

Permit Contact Person

Name: GARY BARTKOWSKI
Title: DIR OF EHS-NAM.
Phone: (717) 793 - 5404

[Signature] _____

William R. Weaver

WILLIAM R. WEAVER, SOUTHCENTRAL REGION AIR PROGRAM MANAGER

Pages 2-127 Completely Redacted

**SECTION E. Source Group Restrictions.**

Group Name: 012B RACT 2 CASE BY CASE
Group Description: RACT 2 CASE BY CASE
Sources included in this group

**RACT 2 SIP Provisions from Title V Permit
No. 67-05001 Significant Modification issued
11/27/18 (pages 128-130 of permit)**

ID	Name
405	NUMBER 1 ROTARY KILN (WITH O2)
415	NUMBER 2 ROTARY KILN (WITH O2)
801	CURING OVEN
810	TUNNEL KILN #5
820	TUNNEL KILN #6
830	BICKLEY PERIODIC KILN

I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.**# 001 [25 Pa. Code §129.99]****Alternative RACT proposal and petition for alternative compliance schedule.****I. Rotary Kilns (Sources 405 and 415)****a. Emissions from the Rotary Kilns shall not exceed the following:**

1. Kiln 1: 34.0 pounds of NO_x per ton of product
2. Kiln 2: 38.0 pounds of NO_x per ton of product

b. The permittee shall do the following O&M activities related to the Rotary Kilns:

1. Oxygen and carbon monoxide analyzers associated with the automated combustion control system on each rotary kiln shall be inspected for proper operation at least weekly, with corrective action taken if problems are noted.
2. Kiln feed controls on each rotary kiln shall be verified for proper calibration at least every six months, with adjustments made as necessary.

**SECTION E Source Group Restrictions.**

3. Fuel feed controls on each kiln shall be verified for proper calibration at least annually, with adjustments made as necessary.
 4. Coal mill level controls on each kiln shall be verified for proper calibration at least annually, with adjustments made as necessary.
 5. Thermocouples associated with the combustion control system on each rotary kiln shall be inspected and verified for proper calibration at least annually, with adjustments made or corrective actions taken as necessary.
 6. The flame pattern on each kiln shall be visually inspected at least each week, with corrective actions taken as necessary.
 7. The burner pipe on each kiln shall be inspected at least annually, with corrective actions taken as necessary.
- c. The permitted shall keep records of the following for the Rotary Kilns:
1. Weekly oxygen and carbon monoxide analyzer inspections, plus records of any maintenance done in response to problems noted during the inspections
 2. 6-month rotary kiln feed control calibration verifications, plus records of any adjustments made as a result of the verifications
 3. Annual rotary kiln fuel feed control calibration verifications, plus records of any adjustments made as a result of the verifications
 4. Annual rotary kiln coal mill level control calibration verifications, plus records of any adjustments made as a result of the verifications
 5. Annual rotary kiln thermocouple inspections and calibration verifications are maintained, plus adjustments or maintenance performed as a result of the inspections or verifications
 6. Weekly rotary kiln flame pattern inspections, plus records of any corrective actions taken as a result of each inspection.
 7. Annual rotary kiln burner pipe inspections, plus records of any corrective actions taken as a result of each inspection.
- d. NO_x emissions from each of Sources 405 and 415 shall be verified one time in each 5-year calendar period. This testing shall be conducted in accordance with the provisions of Chapter 139 of the Department's rules and regulations.
- II. Tunnel Kilns 5 and 6 (Sources 810 and 820), Kiln 7 (Source 830), Curing Oven (Source 801)
- a. The permittee shall do the following O&M activities:
1. Visually inspect each Source 801 burner at least annually.
 2. Visually inspect each burner on each kiln (Sources 810 and 820) at least once each week.
 3. Physically inspect each burner on each kiln (Sources 810 and 820) at least once each calendar month, and adjust the air to fuel ratio if necessary.
 4. Monthly change the filters for the combustion air and diffusion air (secondary air) for Source 830.
 5. Physically inspect each burner for Source 830 at least every 500 hours of operation.
- b. The permittee shall keep records of the following:
1. Periodic burner inspections for Sources 801, 810, 820 and 830.
 2. All inspections, adjustments or maintenance related to burner or kiln operation for Sources 801, 810, 820 and 830.

**SECTION E. Source Group Restrictions.**

3. Monthly filter changes for Source 830

Note: The above conditions shall supersede the SIP-ed RACT 1 requirements for this facility, upon approval by EPA as a SIP revision.

***** Permit Shield in Effect. *****