John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

4/26/2013

Certified Mail

JIM FRY
SENECA TILES INC
7100 S COUNTY RD 23
ATTICA, OH 44807

No	TOXIC REVIEW
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
Yes	MACT/GACT
No	NSPS
No	NESHAPS
No	NETTING
No	MODELING SUBMITTED
No	SYNTHETIC MINOR TO AVOID TITLE V
No	FEDERALLY ENFORCABLE PTIO (FEPTIO)
No	SYNTHETIC MINOR TO AVOID MAJOR GHG

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE
Facility ID: 0374000097
Permit Number: P0113575
Permit Type: Renewal
County: Seneca

Dear Permit Holder:

Enclosed please find a final Ohio Environmental Protection Agency (EPA) Air Pollution Permit-to-Install and Operate (PTIO) which will allow you to install, modify, and/or operate the described emissions unit(s) in the manner indicated in the permit. Because this permit contains conditions and restrictions, please read it very carefully. In this letter you will find the information on the following topics:

- **How to appeal this permit**
- **How to save money, reduce pollution and reduce energy consumption**
- **How to give us feedback on your permitting experience**
- **How to get an electronic copy of your permit**

How to appeal this permit

The issuance of this PTIO is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of $70.00, made payable to “Ohio Treasurer Josh Mandel," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General’s Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
77 South High Street, 17th Floor
Columbus, OH 43215

How to save money, reduce pollution and reduce energy consumption

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. Additionally, all or a portion of the capital expenditures related to installing air pollution control equipment under this permit may be eligible for financing and State tax exemptions through the Ohio Air Quality Development Authority (OAQDA) under Ohio Revised Code Section 3706. For more information, see the OAQDA website: www.ohioairquality.org/clean_air

How to give us feedback on your permitting experience

Please complete a survey at www.epa.ohio.gov/dapc/permitsurvey.aspx and give us feedback on your permitting experience. We value your opinion.

How to get an electronic copy of your permit

This permit can be accessed electronically via the eBusiness Center: Air Services in Microsoft Word format or in Adobe PDF on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Search for Permits" link under the Permitting topic on the Programs tab.

If you have any questions, please contact Ohio EPA DAPC, Northwest District Office at (419)352-8461or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,

Michael W. Ahern

Michael W. Ahern, Manager
Permit Issuance and Data Management Section, DAPC

Cc: Ohio EPA-NWDO

FINAL

Division of Air Pollution Control
Permit-to-Install and Operate
for
SENECA TILES INC

Facility ID:	0374000097
Permit Number:	P0113575
Permit Type:	Renewal
Issued:	4/26/2013
Effective:	4/26/2013
Expiration:	4/26/2023

Division of Air Pollution Control
Permit-to-Install and Operate
for
SENECA TILES INC

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Authorization

Facility ID:	0374000097
Application Number(s):	A0047299, A0047388
Permit Number:	P0113575
Permit Description:	Renewal PTIO for seven natural gas-fired kilns used to produce ceramic tiles.
Permit Type:	Renewal
Permit Fee:	$0.00
Issue Date:	4/26/2013
Effective Date:	4/26/2013
Expiration Date:	4/26/2023

Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

SENECA TILES INC
7100 S COUNTY RD 23
Attica, OH 44807

of a Permit-to-Install and Operate for the emissions unit(s) identified on the following page.

Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Northwest District Office
347 North Dunbridge Road
Bowling Green, OH 43402
(419)352-8461

The above named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (emissions unit(s))listed in this section pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the described emissions unit(s) will operate in compliance with applicable State and federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Scott J. Nally
Director

Authorization (continued)

Permit Number: P0113575
Permit Description: Renewal PTIO for seven natural gas-fired kilns used to produce ceramic tiles.

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

Emissions Unit ID:	**P003**
Company Equipment ID:	P003
Superseded Permit Number:	03-8364
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	**P004**
Company Equipment ID:	P004
Superseded Permit Number:	03-8364
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	**P007**
Company Equipment ID:	P007
Superseded Permit Number:	03-8364
General Permit Category and Type:	Not Applicable

Group Name: Beehive Batch Kilns

Emissions Unit ID:	**P001**
Company Equipment ID:	CLAY TILE BATCH KILNS (3)
Superseded Permit Number:	
General Permit Category andType:	Not Applicable
Emissions Unit ID:	**P002**
Company Equipment ID:	clay tile batch kiln (used as back-up)
Superseded Permit Number:	
General Permit Category andType:	Not Applicable

Group Name: Shuttle Kilns

Emissions Unit ID:	**P005**
Company Equipment ID:	P005
Superseded Permit Number:	03-8364
General Permit Category andType:	Not Applicable
Emissions Unit ID:	**P006**
Company Equipment ID:	P006
Superseded Permit Number:	03-8364
General Permit Category andType:	Not Applicable

A. Standard Terms and Conditions

1. What does this permit-to-install and operate ("PTIO") allow me to do?

This permit allows you to install and operate the emissions unit(s) identified in this PTIO. You must install and operate the unit(s) in accordance with the application you submitted and all the terms and conditions contained in this PTIO, including emission limits and those terms that ensure compliance with the emission limits (for example, operating, recordkeeping and monitoring requirements).

2. Who is responsible for complying with this permit?

The person identified on the "Authorization" page, above, is responsible for complying with this permit until the permit is revoked, terminated, or transferred. "Person" means a person, firm, corporation, association, or partnership. The words "you," "your," or "permittee" refer to the "person" identified on the "Authorization" page above.

The permit applies only to the emissions unit(s) identified in the permit. If you install or modify any other equipment that requires an air permit, you must apply for an additional PTIO(s) for these sources.

3. What records must I keep under this permit?

You must keep all records required by this permit, including monitoring data, test results, strip-chart recordings, calibration data, maintenance records, and any other record required by this permit for five years from the date the record was created. You can keep these records electronically, provided they can be made available to Ohio EPA during an inspection at the facility. Failure to make requested records available to Ohio EPA upon request is a violation of this permit requirement.

4. What are my permit fees and when do I pay them?

There are two fees associated with permitted air contaminant sources in Ohio:

- PTIO fee. This one-time fee is based on a fee schedule in accordance with Ohio Revised Code (ORC) section 3745.11, or based on a time and materials charge for permit application review and permit processing if required by the Director.

  You will be sent an invoice for this fee after you receive this PTIO and payment is due within 30 days of the invoice date. You are required to pay the fee for this PTIO even if you do not install or modify your operations as authorized by this permit.

- Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. Unless otherwise specified, facilities subject to one or more synthetic minor restrictions must use Ohio EPA's "Air Services" to submit annual emissions associated with this permit requirement.Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

5. When does my PTIO expire, and when do I need to submit my renewal application?

This permit expires on the date identified at the beginning of this permit document (see "Authorization" page above) and you must submit a renewal application to renew the permit. Ohio EPA will send a renewal notice to you approximately six months prior to the expiration date of this permit. However, it is

very important that you submit a complete renewal permit application (postmarked prior to expiration of this permit) even if you do not receive the renewal notice.

If a complete renewal application is submitted before the expiration date, Ohio EPA considers this a timely application for purposes of ORC section 119.06, and you are authorized to continue operating the emissions unit(s) covered by this permit beyond the expiration date of this permit until final action is takenby Ohio EPA on the renewal application.

6. What happens to this permit if my project is delayed or I do not install or modify my source?

This PTIO expires 18 months after the issue date identified on the "Authorization" page above unless otherwise specified if you have not (1) started constructing the new or modified emission sources identified in this permit, or (2) entered into a binding contract to undertake such construction. This deadline can be extended by up to 12 months, provided you apply to Ohio EPA for this extension within a reasonable time before the 18-month period has ended and you can show good cause for any such extension.

7. What reports must I submit under this permit?

An annual permit evaluation report (PER) is required in addition to any malfunction reporting required by OAC rule 3745-15-06 or other specific rule-based reporting requirement identified in this permit. Your PER due date is identified in the Authorization section of this permit.

8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and PER obligations under this permit?

If you are required to obtain a Title V permit under OAC Chapter 3745-77 in the future, the permit-to-operate portion of this permit will be superseded by the issued Title V permit. From the effective date of the Title V permit forward, this PTIO will effectively become a PTI (permit-to-install) in accordance with OAC rule 3745-31-02(B). The following terms and conditions will no longer be applicable after issuance of the Title V permit: Section B, Term 1.b) and Section C, for each emissions unit, Term a)(2).

The PER requirements in this permit remain effective until the date the Title V permit is issued and is effective, and cease to apply after the effective date of the Title V permit. The final PER obligation will cover operations up to the effective date of the Title V permit and must be submitted on or before the submission deadline identified in this permit on the last day prior to the effective date of the Title V permit.

9. What are my obligations when I perform scheduled maintenance on air pollution control equipment?

You must perform scheduled maintenance of air pollution control equipment in accordance with OAC rule 3745-15-06(A). If scheduled maintenance requires shutting down or bypassing any air pollution control equipment, you must also shut down the emissions unit(s) served by the air pollution control equipment during maintenance, unless the conditions of OAC rule 3745-15-06(A)(3) are met. Any emissions that exceed permitted amount(s) under this permit (unless specifically exempted by rule) must be reported as deviations in the annual permit evaluation report (PER), including nonexempt excess emissions that occur during approved scheduled maintenance.

10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report?

If you have a reportable malfunction of any emissions unit(s) or any associated air pollution control system, you must report this to the Ohio EPA DAPC, Northwest District Office in accordance with OAC rule 3745-15-06(B). Malfunctions that must be reported are those that result in emissions that exceed permitted emission levels. It is your responsibility to evaluate control equipment breakdowns and operational upsets to determine if a reportable malfunction has occurred.

If you have a malfunction, but determine that it is not a reportable malfunction under OAC rule 3745-15-06(B), it is recommended that you maintain records associated with control equipment breakdown or process upsets. Although it is not a requirement of this permit, Ohio EPA recommends that you maintain records for non-reportable malfunctions.

11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located?

Yes. Under Ohio law, the Director or his authorized representative may inspect the facility, conduct tests, examine records or reports to determine compliance with air pollution laws and regulations and the terms and conditions of this permit. You must provide, within a reasonable time, any information Ohio EPA requests either verbally or in writing.

12. What happens if one or more emissions units operated under this permit is/are shut down permanently?

Ohio EPA can terminate the permit terms associated with any permanently shut down emissions unit. "Shut down" means the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31.

You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting[1] a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emissions unit once the certification has been submitted to Ohio EPA by the authorized official.

You must comply with all recordkeeping and reporting for any permanently shut down emissions unit in accordance with the provisions of the permit, regulations or laws that were enforceable during the period of operation, such as the requirement to submit a PER, air fee emission report, or malfunction report. You must also keep all records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, for at least five years from the date the record was generated.

Again, you cannot resume operation of any emissions unit certified by the authorized official as being permanently shut down without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

[1] Permittees that use Ohio EPA's "Air Services" can mark the affected emissions unit(s) as "permanently shutdown" in the facility profile along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update will constitute notifying of the permanent shutdown of the affected emissions unit(s).

13. Can I transfer this permit to a new owner or operator?

You can transfer this permit to a new owner or operator. If you transfer the permit, you must follow the procedures in OAC Chapter 3745-31, including notifying Ohio EPA or the local air agency of the change in ownership or operator. Any transferee of this permit must assume the responsibilities of the transferor permit holder.

14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"?

This permit and OAC rule 3745-15-07 prohibit operation of the air contaminant source(s) regulated under this permit in a manner that causes a nuisance. Ohio EPA can require additional controls or modification of the requirements of this permit through enforcement orders or judicial enforcement action if, upon investigation, Ohio EPA determines existing operations are causing a nuisance.

15. What happens if a portion of this permit is determined to be invalid?

If a portion of this permit is determined to be invalid, the remainder of the terms and conditions remain valid and enforceable. The exception is where the enforceability of terms and conditions are dependent on the term or condition that was declared invalid.

B. Facility-Wide Terms and Conditions

1. This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

   a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

      (1) None.

   b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

      (1) None.

2. The Ohio EPA has determined that this facility is subject to the requirements of 40 CFR Part 63 Subpart RRRRRR, National Emission Standards for Hazardous Air Pollutants (NESHAP) for Clay Ceramics Manufacturing Industry. Although Ohio EPA has determined that this Generally Available Control Technology (GACT) NESHAP applies, at this time Ohio EPA does not have the authority to enforce this standard. Instead, U.S. EPA has the authority to enforce this standard. Please be advised, that all requirements associated with this rule are in effect and shall be enforced by U.S. EPA. For more information on the area source rules, please refer to the following U.S. EPA website: http://www.epa.gov/ttn/atw/area/arearules.html.

C. Emissions Unit Terms and Conditions

1. P003, Tunnel Kiln

Operations, Property and/or Equipment Description:

Tunnel Kiln

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	Particulate matter emissions (PE) shall not exceed 0.05pound per hour (lb/hr) and 0.22tons per year (tpy). Sulfur dioxide (SO_2) emissions shall not exceed 0.95lb/hr and 4.16tpy. Carbon monoxide (CO) emissions shall not exceed 0.33lbs/hr and 1.45tpy. Hydrogen fluoride (HF) emissions shall not exceed 0.05 lb/hr and 0.22 tpy. See b)(2)a.
b.	OAC rule 3745-17-11(B)	See b)(2)b.
c.	OAC rule 3745-17-07(A)	Visible PE from any stack serving these emissions units shall not exceed 20% opacity as a six-minute average, except as provided by rule.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
d.	OAC rule 3745-18-06(E)	See b)(2)c.

(2) Additional Terms and Conditions

a. The "Best Available Technology" (BAT) requirements for this emissions unit have been determined to be compliance with the terms and conditions of this permit. It should be noted that this emissions unit emits nitrogen oxide (NO_x) and volatile organic compounds (VOC). The potential to emit of NO_x and VOC result in negligible emission quantities and therefore have not been addressed through limitations established under OAC rule 3745-31-05(A)(3).

b. The emissions limitation specified by OAC rule 3745-17-11(B) is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

c. This emissions unit is exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).

c) Operational Restrictions

(1) The permittee shall burn only natural gas in these emissions units.

d) Monitoring and/or Recordkeeping Requirements

(1) For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in these emissions units.

e) Reporting Requirements

(1) Thepermittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit. It is recommended that the PER is submitted electronically through the Ohio EPA's "e-Business Center: Air Services" although PERs can be submitted via U.S. postal service or can be hand delivered.

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. <u>Emission Limitation</u>:

PE shall not exceed 0.05 lb/hr and 0.22 tpy

Applicable Compliance Method:

The hourly emission limitation was developed by multiplying the maximum capacity of the kiln of 200 lbs/hr by the emission factor of 0.49 lb PE/ton [AP-42, Table 11.7-1 for Ceramic Products Manufacturing Operations Firing (natural gas-fired kiln).

If required, the permittee shall demonstrate compliance with the hourly emission limitation by testing in accordance with 40 CFR, Part 60, Appendix A, Methods 1 through 5 and 40 CFR, Part 60, Appendix A.

The annual emission limitation was developed by multiplying the hourly emission limitation by the maximum annual operating schedule of 8760 hrs/yr and dividing by 2000 lbs/ton. Therefore, provided compliance is maintained with the hourly emission limitation, compliance with the annual emission limitation shall also be demonstrated.

b. Emission Limitation:

SO_2shall not exceed 0.95 lb/hr and 4.16 tpy

Applicable Compliance Method:

The hourly emission limitation was developed by multiplying the maximum capacity of the kiln of 200 lbs/hr by the emission factor of 9.5 lbs SO_2/ton [AP-42, Table 11.7-2 for Ceramic Products Manufacturing Operations Firing (natural gas-fired kiln).

If required, the permittee shall demonstrate compliance with the hourly emission limitation by testing in accordance with Methods 1 through 4 and 6 of 40 CFR, Part 60, Appendix A.

The annual emission limitation was developed by multiplying the hourly emission limitation by the maximum annual operating schedule of 8760 hrs/yr and dividing by 2000 lbs/ton. Therefore, provided compliance is maintained with the hourly emission limitation, compliance with the annual emission limitation shall also be demonstrated.

c. Emission Limitation:

CO emissions shall not exceed 0.33 lb/hr and 1.45tpy

Applicable Compliance Method:

The hourly emission limitation was developed by multiplying the maximum capacity of the kiln of 200 lbs/hr by the emission factor of 3.3 lbs CO/ton [AP-42, Table 11.7-2 for Ceramic Products Manufacturing Operations Firing (natural gas-fired kiln).

If required, the permittee shall demonstrate compliance with the hourly emission limitation by testing in accordance with Methods 1 through 4 and 10 of 40 CFR, Part 60, Appendix A.

The annual emission limitation was developed by multiplying the hourly emission limitation by the maximum annual operating schedule of 8760 hr/yr and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly emission limitation, compliance with the annual emission limitation shall also be demonstrated.

d. Emission Limitation:

HF emissions shall not exceed 0.05 HF/hr and 0.22 tpy

Applicable Compliance Method:

The hourly emission limitation was developed by multiplying the maximum capacity of the kiln of 200 lbs/hr by the emission factor of 0.46 lb HF/ton [AP-42, Table 11.7-1 for Ceramic Products Manufacturing Operations Firing (natural gas-fired kiln).

If required, the permittee shall demonstrate compliance with the hourly emission limitation by testing in accordance with Methods 1-4 and 26 or 26A of 40 CFR Part 60, Appendix A.

The annual emission limitation was developed by multiplying the hourly emission limitation by the maximum annual operating schedule of 8760 hrs/yr and dividing by 2000 lbs/ton. Therefore, provided compliance is maintained with the hourly emission limitation, compliance with the annual emission limitation shall also be demonstrated.

e. Emission Limitation:

Visible PE from the stacks serving these emissions units shall not exceed 20% opacity, as a six-minute average, except as provided by rule

Applicable Compliance Method:

If required, compliance shall be conducted in accordance with OAC rule 3745-17-03(B)(1).

g) Miscellaneous Requirements

(1) None.

2. P004, Tunnel Kiln-Swindle Dresser

Operations, Property and/or Equipment Description:

Tunnel Kiln-Swindle Dresser

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	Particulate matter emissions (PE) shall not exceed 0.07pound per hour (lb/hr) and 0.31 ton per year (tpy). Sulfur dioxide (SO_2) emissions shall not exceed 1.43lbs/hr and 6.26tpy. Carbon monoxide (CO) emissions shall not exceed 0.50lb/hr and 2.17tpy. Hydrogen fluoride (HF) emissions shall not exceed 0.07 lb/hr and 0.31 tpy. See b)(2)a.
b.	OAC rule 3745-17-11(B)(2)	See b)(2)b.
c.	OAC rule 3745-17-07(A)	Visible PE from any stack serving these emissions units shall not exceed 20% opacity as a six-minute average, except as provided by rule.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
d.	OAC rule 3745-18-06(E)	See b)(2)c.

(2) Additional Terms and Conditions

a. The "Best Available Technology" (BAT) requirements for this emissions unit have been determined to be compliance with the terms and conditions of this permit. It should be noted that this emissions unit emits nitrogen oxide (NO_x) and volatile organic compounds (VOC). The potential to emit of NO_x and VOC result in negligible emission quantities and therefore have not been addressed through limitations established under OAC rule 3745-31-05(A)(3).

b. The emissions limitation specified by OAC rule 3745-17-11(B) is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

c. This emissions unit is exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).

c) Operational Restrictions

(1) The permittee shall burn only natural gas in these emissions units.

d) Monitoring and/or Recordkeeping Requirements

(1) For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in these emissions units.

e) Reporting Requirements

(1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit. It is recommended that the PER is submitted electronically through the Ohio EPA's "e-Business Center: Air Services" although PERs can be submitted via U.S. postal service or can be hand delivered.

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. <u>Emission Limitation</u>:

PE shall not exceed 0.07 lb /hr and 0.31 tpy

Applicable Compliance Method:

The hourly emission limitation was developed by multiplying the maximum capacity of the kiln of 300 lbs/hr by the emission factor of 0.49 lb PE/ton [AP-42, Table 11.7-1 for Ceramic Products Manufacturing Operations Firing (natural gas-fired kiln).

If required, the permittee shall demonstrate compliance with the hourly emission limitation by testing in accordance with 40 CFR, Part 60, Appendix A, Methods 1 through 5 and 40 CFR, Part 60, Appendix A.

The annual emission limitation was developed by multiplying the hourly emission limitation by the maximum annual operating schedule of 8760 hrs/yr and dividing by 2000 lbs/ton. Therefore, provided compliance is maintained with the hourly emission limitation, compliance with the annual emission limitation shall also be demonstrated.

b. Emission Limitation:

SO_2emissionsshall not exceed1.43 lb/hr and 6.26 tpy

Applicable Compliance Method:

The hourly emission limitation was developed by multiplying the maximum capacity of the kiln of 300 lbs/hr by the emission factor of 9.5 lbs SO_2/ton [AP-42, Table 11.7-2 for Ceramic Products Manufacturing Operations Firing (natural gas-fired kiln).

If required, the permittee shall demonstrate compliance with the hourly emission limitation by testing in accordance with Methods 1 through 4 and 6 of 40 CFR, Part 60, Appendix A.

The annual emission limitation was developed by multiplying the hourly emission limitation by the maximum annual operating schedule of 8760 hrs/yr and dividing by 2000 lbs/ton. Therefore, provided compliance is maintained with the hourly emission limitation, compliance with the annual emission limitation shall also be demonstrated.

c. Emission Limitation:

CO emissions shall not exceed 0.50 lb/hr and 2.19tpy

Applicable Compliance Method:

The hourly emission limitation was developed by multiplying the maximum capacity of the kiln of 300 lbs/hr by the emission factor of 3.3 lbs CO/ton [AP-42, Table 11.7-2 for Ceramic Products Manufacturing Operations Firing (natural gas-fired kiln).

If required, the permittee shall demonstrate compliance with the hourly emission limitation by testing in accordance with Methods 1 through 4 and 10 of 40 CFR, Part 60, Appendix A.

The annual emission limitation was developed by multiplying the hourly emission limitation by the maximum annual operating schedule of 8760 hr/yr and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly emission limitation, compliance with the annual emission limitation shall also be demonstrated.

d. Emission Limitation:

HF emissions shall not exceed 0.07 lb/hr and 0.31 tpy

Applicable Compliance Method:

The hourly emission limitation was developed by multiplying the maximum capacity of the kiln of 300 lbs/hr by the emission factor of 0.46 lb HF/ton [AP-42, Table 11.7-1 for Ceramic Products Manufacturing Operations Firing (natural gas-fired kiln).

If required, the permittee shall demonstrate compliance with the hourly emission limitation by testing in accordance with Methods 1-4 and 26 or 26A of 40 CFR Part 60, Appendix A.

The annual emission limitation was developed by multiplying the hourly emission limitation by the maximum annual operating schedule of 8760 hrs/yr and dividing by 2000 lbs/ton. Therefore, provided compliance is maintained with the hourly emission limitation, compliance with the annual emission limitation shall also be demonstrated.

e. Emission Limitation:

Visible PE from the stacks serving these emissions units shall not exceed 20% opacity, as a six-minute average, except as provided by rule

Applicable Compliance Method:

If required, compliance shall be conducted in accordance with OAC rule 3745-17-03(B)(1).

g) Miscellaneous Requirements

(1) None.

3. P007, Envelope Kiln

Operations, Property and/or Equipment Description:

Envelope Kiln

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	Particulate matter emissions (PE) shall not exceed 0.04 pound per hour (lb/hr) and 0.18 ton per year (tpy). Sulfur dioxide (SO_2) emissions shall not exceed 0.68lbs/hr and 2.98tpy. Carbon monoxide (CO) emissions shall not exceed 0.24lb/hr and 1.05tpy. Hydrogen fluoride (HF) emissions shall not exceed 0.03 lb/hr and 0.13 tpy. See b)(2)a.
b.	OAC rule 3745-17-11(B)	See b)(2)b.
c.	OAC rule 3745-17-07(A)	Visible PE from any stack serving this emissions unit shall not exceed 20% opacity as a six-minute average, except as provided by rule.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
d.	OAC rule 3745-18-06(E)	See b)(2)c.

(2) Additional Terms and Conditions

a. The "Best Available Technology" (BAT) requirements for this emissions unit have been determined to be compliance with the terms and conditions of this permit. It should be noted that this emissions unit emits nitrogen oxide (NO_x) and volatile organic compounds (VOC). The potential to emit of NO_x and VOC result in negligible emission quantities and therefore have not been addressed through limitations established under OAC rule 3745-31-05(A)(3).

b. The emissions limitation specified by OAC rule 3745-17-11(B) is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

c. This emissions unit is exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).

c) Operational Restrictions

(1) The permittee shall burn only natural gas in this emissions unit.

d) Monitoring and/or Recordkeeping Requirements

(1) For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

e) Reporting Requirements

(1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit. It is recommended that the PER is submitted electronically through the Ohio EPA's "e-Business Center: Air Services" although PERs can be submitted via U.S. postal service or can be hand delivered.

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. <u>Emission Limitation:</u>

PE shall not exceed 0.04 lb/hr and 0.18 tpy

Applicable Compliance Method:

The hourly emission limitation was developed by multiplying the maximum capacity of the kiln of 144 lbs/hr (which was estimated by the maximum annual capacity of 150 tons per year and the worst case maximum annual operating hours 2080 hours per year because this is a batch operation) by the emission factor of 0.49 lb PE/ton [AP-42, Table 11.7-1 for Ceramic Products Manufacturing Operations Firing (natural gas-fired kiln).

If required, the permittee shall demonstrate compliance with the hourly emission limitation by testing in accordance with 40 CFR, Part 60, Appendix A, Methods 1 through 5 and 40 CFR, Part 60, Appendix A.

The annual emission limitation was developed by multiplying the hourly emission limitation by the maximum annual operating schedule of 8760 hrs/yr and dividing by 2000 lbs/ton. Therefore, provided compliance is maintained with the hourly emission limitation, compliance with the annual emission limitation shall also be demonstrated.

b. Emission Limitation:

SO_2 emissions shall not exceed 0.68 lbs/hr and 2.97 tpy

Applicable Compliance Method:

The hourly emission limitation was developed by multiplying the maximum capacity of the kiln of 144 lbs/hr (which was estimated by the maximum annual capacity of 150 tons per year and the worst case maximum annual operating hours 2080 hours per year because this is a batch operation) by the emission factor of 9.5 lbs SO_2/ton [AP-42, Table 11.7-2 for Ceramic Products Manufacturing Operations Firing (natural gas-fired kiln).

If required, the permittee shall demonstrate compliance with the hourly emission limitation by testing in accordance with Methods 1 through 4 and 6 of 40 CFR, Part 60, Appendix A.

The annual emission limitation was developed by multiplying the hourly emission limitation by the maximum annual operating schedule of 8760 hrs/yr and dividing by 2000 lbs/ton. Therefore, provided compliance is maintained with the hourly emission limitation, compliance with the annual emission limitation shall also be demonstrated.

c. Emission Limitation:

CO emissions shall not exceed 0.24 lb/hr and 1.05tpy

Applicable Compliance Method:

The hourly emission limitation was developed by multiplying the maximum capacity of the kiln of 144 lbs/hr (which was estimated by the maximum annual capacity of 150 tons per year and the worst case maximum annual operating

hours 2080 hours per year because this is a batch operation) by the emission factor of 3.3 lbs CO/ton [AP-42, Table 11.7-2 for Ceramic Products Manufacturing Operations Firing (natural gas-fired kiln).

If required, the permittee shall demonstrate compliance with the hourly emission limitation by testing in accordance with Methods 1 through 4 and 10 of 40 CFR, Part 60, Appendix A.

The annual emission limitation was developed by multiplying the hourly emission limitation by the maximum annual operating schedule of 8760 hr/yr and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly emission limitation, compliance with the annual emission limitation shall also be demonstrated.

d. Emission Limitation:

HF emissions shall not exceed 0.03 lb/hr and 0.13 tpy

Applicable Compliance Method:

The hourly emission limitation was developed by multiplying the maximum capacity of the kiln of 144 lbs/hr (which was estimated by the maximum annual capacity of 150 tons per year and the worst case maximum annual operating hours 2080 hours per year because this is a batch operation) by the emission factor of 0.46 lb HF/ton [AP-42, Table 11.7-1 for Ceramic Products Manufacturing Operations Firing (natural gas-fired kiln).

If required, the permittee shall demonstrate compliance with the hourly emission limitation by testing in accordance with Methods 1-4 and 26 or 26A of 40 CFR Part 60, Appendix A.

The annual emission limitation was developed by multiplying the hourly emission limitation by the maximum annual operating schedule of 8760 hrs/yr and dividing by 2000 lbs/ton. Therefore, provided compliance is maintained with the hourly emission limitation, compliance with the annual emission limitation shall also be demonstrated.

e. Emission Limitation:

Visible PE from the stacks serving this emissions unit shall not exceed 20% opacity, as a six-minute average, except as provided by rule

Applicable Compliance Method:

If required, compliance shall be conducted in accordance with OAC rule 3745-17-03(B)(1).

g) Miscellaneous Requirements

(1) None.

4. Emissions Unit Group -Beehive Batch Kilns: P001 and P002

EU ID	Operations, Property and/or Equipment Description
P001	North Beehive Batch Kiln
P002	Middle Beehive Batch Kiln

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-11(B)(2)	<u>From each emissions unit individually:</u> Particulate matter emissions (PE) shall not exceed 1.47 pound per hour (lb/hr).
b.	OAC rule 3745-17-07(A)	Visible PE from any stack serving these emissions units shall not exceed 20% opacity as a six-minute average, except as provided by rule
c.	OAC rule 3745-18-06(E)	See b)(2)a.

(2) Additional Terms and Conditions

a. These emissions units are exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).

c) Operational Restrictions

(1) The permittee shall burn only natural gas in these emissions units.

d) Monitoring and/or Recordkeeping Requirements

(1) For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in these emissions units.

e) Reporting Requirements

(1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit. It is recommended that the PER is submitted electronically through the Ohio EPA's "e-Business Center: Air Services" although PERs can be submitted via U.S. postal service or can be hand delivered.

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

PE shall not exceed 1.47 lb/hr

Applicable Compliance Method:

If required, compliance shall be conducted in accordance with OAC rule 3745-17-03(B)(10).

b. Emission Limitation:

Visible PE from the stacks serving these emissions units shall not exceed 20% opacity, as a six-minute average, except as provided by rule

Applicable Compliance Method:

If required, compliance shall be conducted in accordance with OAC rule 3745-17-03(B)(1).

g) Miscellaneous Requirements

(1) None.

5. Emissions Unit Group -Shuttle Kilns: P005 and P006

EU ID	Operations, Property and/or Equipment Description
P005	Shuttle Kiln - Smith
P006	Shuttle Kiln - kilns & furnaces

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	<u>From each emissions unit individually:</u> Particulate matter emissions (PE) shall not exceed 0.06 pound per hour (lb/hr) and 0.26 ton per year (tpy). Sulfur dioxide (SO_2) emissions shall not exceed 1.07 lb/hr and 4.69 tpy. Carbon monoxide (CO) emissions shall not exceed 0.37 lb/hr and 1.62 ton/year. Hydrogen fluoride (HF) emissions shall not exceed 0.05 lb/hr and 0.22 tpy. See b)(2)a.
b.	OAC rule 3745-17-11(B)	See b)(2)b.
c.	OAC rule 3745-17-07(A)	Visible PE from any stack serving these

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		emissions units shall not exceed 20% opacity as a six-minute average, except as provided by rule.
d.	OAC rule 3745-18-06(E)	See b)(2)c.

(2) Additional Terms and Conditions

a. The "Best Available Technology" (BAT) requirements for this emissions unit have been determined to be compliance with the terms and conditions of this permit. It should be noted that this emissions unit emits nitrogen oxide (NO_x) and volatile organic compounds (VOC). The potential to emit of NO_x and VOC result in negligible emission quantities and therefore have not been addressed through limitations established under OAC rule 3745-31-05(A)(3).

b. The emissions limitation specified by OAC rule 3745-17-11(B) is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

c. This emissions unit is exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).

c) Operational Restrictions

(1) The permittee shall burn only natural gas in these emissions units.

d) Monitoring and/or Recordkeeping Requirements

(1) For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in these emissions units.

e) Reporting Requirements

(1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit. It is recommended that the PER is submitted electronically through the Ohio EPA's "e-Business Center: Air Services" although PERs can be submitted via U.S. postal service or can be hand delivered.

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

PE shall not exceed 0.06 lb/hr and 0.26 tpy

Applicable Compliance Method:

The hourly emission limitation was developed by multiplying the maximum capacity of the kiln of 225 lbs/hr (which was estimated by the maximum annual capacity of 234 tons per year and the worst case maximum annual operating hours 2080 hours per year because this is a batch operation) by the emission factor of 0.49 lb PE/ton [AP-42, Table 11.7-1 for Ceramic Products Manufacturing Operations Firing (natural gas-fired kiln).

If required, the permittee shall demonstrate compliance with the hourly emission limitation by testing in accordance with 40 CFR, Part 60, Appendix A, Methods 1 through 5 and 40 CFR, Part 60, Appendix A.

The annual emission limitation was developed by multiplying the hourly emission limitation by the maximum annual operating schedule of 8760 hrs/yr and dividing by 2000 lbs/ton. Therefore, provided compliance is maintained with the hourly emission limitation, compliance with the annual emission limitation shall also be demonstrated.

b. Emission Limitation:

SO_2emissions shall not exceed 1.07 lbs/hr and 4.69 tpy

Applicable Compliance Method:

The hourly emission limitation was developed by multiplying the maximum capacity of the kiln of 225 lbs/hr (which was estimated by the maximum annual capacity of 234 tons per year and the worst case maximum annual operating hours 2080 hours per year because this is a batch operation) by the emission factor of 9.5 lbs SO_2/ton [AP-42, Table 11.7-2 for Ceramic Products Manufacturing Operations Firing (natural gas-fired kiln).

If required, the permittee shall demonstrate compliance with the hourly emission limitation by testing in accordance with Methods 1 through 4 and 6 of 40 CFR, Part 60, Appendix A.

The annual emission limitation was developed by multiplying the hourly emission limitation by the maximum annual operating schedule of 8760 hrs/yr and dividing by 2000 lbs/ton. Therefore, provided compliance is maintained with the hourly emission limitation, compliance with the annual emission limitation shall also be demonstrated.

c. Emission Limitation:

CO emissions shall not exceed 0.37 lb/hr and 1.62tpy

Applicable Compliance Method:

The hourly emission limitation was developed by multiplying the maximum capacity of the kiln of 225 lbs/hr (which was estimated by the maximum annual capacity of 234 tons per year and the worst case maximum annual operating hours 2080 hours per year because this is a batch operation) by the emission factor of 3.3 lbs CO/ton [AP-42, Table 11.7-2 for Ceramic Products Manufacturing Operations Firing (natural gas-fired kiln).

If required, the permittee shall demonstrate compliance with the hourly emission limitation by testing in accordance with Methods 1 through 4 and 10 of 40 CFR, Part 60, Appendix A.

The annual emission limitation was developed by multiplying the hourly emission limitation by the maximum annual operating schedule of 8760 hr/yr and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly emission limitation, compliance with the annual emission limitation shall also be demonstrated.

d. Emission Limitation:

HF emissions shall not exceed 0.05 lb/hr and 0.22 tpy

Applicable Compliance Method:

The hourly emission limitation was developed by multiplying the maximum capacity of the kiln of 225 lbs/hr (which was estimated by the maximum annual capacity of 234 tons per year and the worst case maximum annual operating hours 2080 hours per year because this is a batch operation) by the emission factor of 0.46 lb HF/ton [AP-42, Table 11.7-1 for Ceramic Products Manufacturing Operations Firing (natural gas-fired kiln).

If required, the permittee shall demonstrate compliance with the hourly emission limitation by testing in accordance with Methods 1-4 and 26 or 26A of 40 CFR Part 60, Appendix A.

The annual emission limitation was developed by multiplying the hourly emission limitation by the maximum annual operating schedule of 8760 hrs/yr and dividing by 2000 lbs/ton. Therefore, provided compliance is maintained with the hourly emission limitation, compliance with the annual emission limitation shall also be demonstrated.

e. Emission Limitation:

Visible PE from the stacks serving these emissions units shall not exceed 20% opacity, as a six-minute average, except as provided by rule

Applicable Compliance Method:

If required, compliance shall be conducted in accordance with OAC rule 3745-17-03(B)(1).

g) Miscellaneous Requirements

(1) None.