



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL  
SENECA COUNTY**

**CERTIFIED MAIL**

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049

**Application No: 03-13923**

**DATE:** 11/14/2002

American Standard, Inc.  
Jim Amendola  
PO Box 279 324 Fourth Ave  
Tiffin, OH 44883

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging 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 Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 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. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission  
236 East Town Street, Room 300  
Columbus, Ohio 43215

Very truly yours,

Michael W. Ahern, Supervisor  
Field Operations and Permit Section  
Division of Air Pollution Control

cc: USEPA

NWDO



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**Permit To Install  
Terms and Conditions**

**Issue Date: 11/14/2002  
Effective Date: 11/14/2002**

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**FINAL PERMIT TO INSTALL 03-13923**

Application Number: 03-13923  
APS Premise Number: 0374020005  
Permit Fee: **\$500**  
Name of Facility: American Standard, Inc.  
Person to Contact: Jim Amendola  
Address: PO Box 279 324 Fourth Ave  
Tiffin, OH 44883

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**324 Fourth Ave  
Tiffin, Ohio**

Description of proposed emissions unit(s):  
**38 mmBtu/hr Natural Gas Fired Kiln - First/Second Fire Kiln 17.**

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) 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 above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

## Part I - GENERAL TERMS AND CONDITIONS

### A. Permit to Install General Terms and Conditions

#### 1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

#### 2. Reporting Requirements Related to Monitoring and Record keeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and record keeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

#### 3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

#### 4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized

representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

**5. Scheduled Maintenance/Malfunction Reporting**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

**6. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

**7. Air Pollution Nuisance**

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

**8. Termination of Permit to Install**

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

**9. Construction of New Sources(s)**

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio

**American Standard, Inc.**  
**PTI Application: 03-13923**  
**Issued: 11/14/2002**

**Facility ID: 0374020005**

Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

**10. Public Disclosure**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

**11. Applicability**

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit to Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

**12. Best Available Technology**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

**13. Source Operation and Operating Permit Requirements After Completion of Construction**

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

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#### 14. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

#### 15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

### B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

**SUMMARY (for informational purposes only)**  
**TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons Per Year</u>
PE	3.94
NO <sub>x</sub>	16.99
CO	17.52
OC	1.88
SO <sub>2</sub>	0.10
HF	1.53

## PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

### A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P032 - 4 mmBtu/hr Natural Gas Fired Kiln - First Fire Kiln no. 15. Modification to PTI #03-13692, issued 11/15/2001. The modification involves incorporating PE and CO emissions from the combustion of the polystyrene forms during first firing and removing the 26.88 mmBtu/hr kiln, which was not installed.	OAC rule 3745-31-05 (A)(3)	0.32 lb particulate emissions (PE)/hr 1.40 tons PE/yr
		0.54 lb carbon monoxide (CO)/hr 2.37 tons CO/yr
		0.002 lb sulfur dioxide (SO <sub>2</sub> )/hr 0.01 ton SO <sub>2</sub> /yr
		0.13 lb hydrogen fluoride (HF)/hr 0.57 ton HF/yr
		Visible PE shall not exceed 0% opacity as a 6-minute average  See A.2.a. and A.2.b.
	OAC rule 3745-17-11 (B)	See A.2.c.
	OAC rule 3745-17-07 (A)	See A.2.c.
	OAC rule 3745-18-06 (A)	See A.2.c.
	OAC rule 3745-21-08 (B) and OAC rule 3745-23-06 (A)	See A.2.d.

### 2. Additional Terms and Conditions

- 2.a Best Available Technology (BAT) for this emissions unit has been determined to be compliance with the terms and conditions of this permit and the use of low NO<sub>x</sub> burners on the kiln.

- 2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-21-08 (B) and 3745-23-06 (B).
- 2.c The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3475-31-05 (A)(3).
- 2.d The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively, by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit to Install.

#### **B. Operational Restrictions**

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

#### **C. Monitoring and/or Record keeping 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.

#### **D. Reporting Requirements**

- 1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

#### **E. Testing Requirements**

- 1. Emission Limitation:  
0.32 lb PE/hr, 1.40 tons PE/yr

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly emission limitation by combining the PE emissions from natural gas combustion and the PE emissions from the polystyrene stands, where:

NG Combustion = the maximum hourly natural gas consumption rate of 4 mmBtu/hr (4,080

ft<sup>3</sup>/hr) multiplied by the appropriate emission factor from AP-42, Table 1.4-2 (revised 7/98) of 7.6 lbs PE/mm ft<sup>3</sup> of natural gas; and

Polystyrene = the maximum hourly polystyrene throughput of 1.957 lbs/hr multiplied by the company supplied emission factor of 0.15 lb PE/ lb of polystyrene processed.

If required, compliance with the hourly emission limitation shall be determined in accordance with U.S. EPA Reference Methods 1 - 5, of 40 CFR Part 60, Appendix A.

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

2. Emission Limitation:  
0.54 lb CO/hr, 2.37 tons CO/yr

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly emission limitation by combining the CO emissions from natural gas combustion and the CO emissions from the polystyrene stands, where:

NG combustion = the maximum hourly natural gas consumption rate (4,080 ft<sup>3</sup>/hr) multiplied by the appropriate emission factor from AP-42, Table 1.4-1 (revised 7/98) of 84 lbs CO/mm ft<sup>3</sup> of natural gas; and

Polystyrene = the maximum hourly polystyrene throughput of 1.957 lbs/hr multiplied by the company supplied emission factor of 0.10 lb CO/ lb of polystyrene processed.

If required, compliance with the hourly emission limitation shall be determined in accordance with U.S. EPA Reference Methods 1 - 4 and Method 10, of 40 CFR Part 60, Appendix A.

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

3. Emission Limitation:  
0.002 lb SO<sub>2</sub>/hr, 0.01 ton SO<sub>2</sub>/yr

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly emission limitation by multiplying the

Emissions Unit ID: P032

maximum hourly natural gas consumption rate of 4 mmBtu/hr (4,080 ft<sup>3</sup>/hr) by the appropriate emission factor from AP-42, Table 1.4-2 (revised 7/98) of 0.6 lb SO<sub>2</sub>/mm ft<sup>3</sup> of natural gas.

If required, compliance with the hourly emission limitation shall be determined in accordance with U.S. EPA Reference Methods 1 - 4 and Method 6, of 40 CFR Part 60, Appendix A.

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

4. Emission Limitation:  
0.13 lb HF/hr, 0.57 ton HF/yr

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly emission limitation by multiplying a company supplied emission factor of 0.196 lb HF/ ton of clay product and the maximum operating capacity of 0.68 tons clay/hr.

If required, compliance with the hourly emission limitation shall be determined in accordance with U.S. EPA Reference Methods 1 - 4 and Method 13, of 40 CFR Part 60, Appendix A.

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

5. Emission Limitation:  
Visible particulate emissions shall not exceed 0% opacity, as a six-minute average.

Applicable Compliance Method:

If required the permittee shall demonstrate compliance using U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.

## F. Miscellaneous Requirements

1. Pursuant to Engineering guide #69, modeling to demonstrate compliance with the Ohio EPA's Air Toxic Policy was not necessary since the emissions unit's maximum annual emissions for each toxic compound is less than 1 ton. OAC Chapter 3745-31 requires permittee to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has listed TLV to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. Applicable Emissions Limitations and/or Control Requirements**

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
P033 - 38 mmBtu/hr Natural Gas Fired Kiln - First/Second Fire Kiln no. 16.	OAC rule 3745-31-05 (A)(3)	OAC rule 3745-18-06 (A)  OAC rule 3745-21-08 and OAC rule 3745-23-06
	OAC rule 3745-17-11 (B)	
	OAC rule 3745-17-07 (A)	

Applicable Emissions  
Limitations/Control Measures

0.58 lb particulate emissions  
 (PE)/hr  
 2.54 tons PE/yr

3.88 lbs nitrogen oxides (NO<sub>x</sub>)/hr  
 16.99 tons NO<sub>x</sub>/yr

3.46 lbs carbon monoxide (CO)/hr  
 15.15 tons CO/yr

0.43 lb organic compounds (OC)/hr  
 1.88 tons OC/yr

0.02 lb sulfur dioxide (SO<sub>2</sub>)/hr  
 0.09 ton SO<sub>2</sub>/yr

0.22 lb hydrogen fluoride (HF)/hr  
 0.96 ton HF/yr

Visible PE shall not exceed 0%  
 opacity as a 6-minute average

See A.2.a. and A.2.b.

See A.2.c.

See A.2.c.

See A.2.c.

See A.2.d.

## 2. Additional Terms and Conditions

- 2.a** Best Available Technology (BAT) for this emissions unit has been determined to be compliance with the terms and conditions of this permit.

- 2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-21-08(B) and 3745-23-06(B).
- 2.c The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3475-31-05 (A)(3).
- 2.d The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively, by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit to Install.

## B. Operational Restrictions

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

## C. Monitoring and/or Record keeping 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.

## D. Reporting Requirements

- 1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

## E. Testing Requirements

- 1. Emission Limitation:  
0.57 lb PE/hr, 2.50 tons PE/yr

### Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly emission limitation by combining the PE emissions from natural gas combustion and the PE emissions from the polystyrene stands, where:

NG combustion = the maximum hourly natural gas consumption rate of 38 mmBtu/hr (38,760 ft<sup>3</sup>/hr multiplied by the appropriate emission factor from AP-42, Table 1.4-2 (revised 7/98) of 7.6 lbs PE/mm ft<sup>3</sup> of natural gas; and

Polystyrene = the maximum hourly polystyrene throughput of 1.957 lbs/hr multiplied by the company supplied emission factor of 0.15 lb PE/ lb of polystyrene processed.

If required, compliance with the hourly emission limitation shall be determined in accordance with U.S. EPA Reference Methods 1 - 5, of 40 CFR Part 60, Appendix A.

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

2. Emission Limitation:  
3.73 lbs NO<sub>x</sub>/hr, 16.34 tons NO<sub>x</sub>/yr

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly emission limitation by multiplying the maximum hourly natural gas consumption rate of 38 mmBtu/hr (38,760 ft<sup>3</sup>/hr) by the appropriate emission factor from AP-42, Table 1.4-1 (revised 7/98) of 100 lbs NO<sub>x</sub>/mm ft<sup>3</sup> of natural gas.

If required, compliance with the hourly emission limitation shall be determined in accordance with U.S. EPA Reference Methods 1 - 4 and Method 7, of 40 CFR Part 60, Appendix A.

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

3. Emission Limitation:  
3.13 lbs CO/hr, 13.71 tons CO/yr

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly emission limitation by combining the CO emissions from natural gas combustion and the CO emissions from the polystyrene stands, where:

NG combustion = the maximum hourly natural gas consumption rate of 38 mmBtu/hr (38,760 ft<sup>3</sup>/hr) multiplied by the appropriate emission factor from AP-42, Table 1.4-1 (revised 7/98) of 84 lbs CO/mm ft<sup>3</sup> of natural gas; and

Polystyrene = the maximum hourly polystyrene throughput of 1.957 lbs/hr multiplied by the company supplied emission factor of 0.10 lb CO/ lb of polystyrene processed.

If required, compliance with the lb/hr emission limitation shall be determined in accordance with U.S. EPA Reference Methods 1 - 4 and Method 10, of 40 CFR Part 60, Appendix A.

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

4. Emission Limitation:  
0.43 lb OC/hr, 1.88 tons OC/yr

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly emission limitation by multiplying the maximum hourly natural gas consumption rate of 38 mmBtu/hr (38,760 ft<sup>3</sup>/hr) by the appropriate emission factor from AP-42, Table 1.4-2 (revised 7/98) of 11 lbs OC/mm ft<sup>3</sup> of natural gas.

If required, compliance with the hourly emission limitation shall be determined in accordance with U.S. EPA Reference Methods 1 - 4 and Method 18, 25, or 25A, of 40 CFR Part 60, Appendix A.

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

5. Emission Limitation:  
0.02 lb SO<sub>2</sub>/hr, 0.09 ton SO<sub>2</sub>/yr

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly emission limitation by multiplying the maximum hourly natural gas consumption rate of 38 mmBtu/hr (38,760 ft<sup>3</sup>/hr) by the appropriate emission factor from AP-42, Table 1.4-2 (revised 7/98) of 0.6 lb SO<sub>2</sub>/mm ft<sup>3</sup> of natural gas.

If required, compliance with the hourly emission limitation shall be determined in accordance with U.S. EPA Reference Methods 1 - 4 and Method 6, of 40 CFR Part 60, Appendix A.

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

6. Emission Limitation:  
0.22 lb HF/hr, 0.96 ton HF/yr

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly emission limitation by multiplying a company supplied emission factor of 0.196 lb HF/ ton of clay product by the maximum operating capacity of 1.105 tons clay/hr.

If required, compliance with the lb/hr emission limitation shall be determined in accordance with U.S. EPA Reference Methods 1 - 4 and Method 13, of 40 CFR Part 60, Appendix A.

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

7. Emission Limitation:

Visible particulate emissions shall not exceed 0% opacity, as a six-minute average.

Applicable Compliance Method-

If required the permittee shall demonstrate compliance using U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.

## F. Miscellaneous Requirements

1. Pursuant to Engineering guide #69, modeling to demonstrate compliance with the Ohio EPA's Air Toxic Policy was not necessary since the emissions unit's maximum annual emissions for each toxic compound will be less than 1 ton. OAC Chapter 3745-31 requires the permittee to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV to above 1.0 ton per year, may require the permittee to apply for and obtain a new permit to install.

**NEW SOURCE REVIEW FORM B**

PTI Number: 03-13923 Facility ID: 0374020005

FACILITY NAME American Standard, Inc.

FACILITY DESCRIPTION 38 mmBtu/hr Natural Gas Fired Kiln - CITY/TWP Tiffin  
 First/Second Fire Kiln 17.

SIC CODE 3261 SCC CODE 3-05-008-01 EMISSIONS UNIT ID P032

EMISSIONS UNIT DESCRIPTION Natural Gas Fired Kilns - First Fire Kiln No. 15 and Refire Kiln No. 16.

DATE INSTALLED 11/01

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment	0.32 lb/hr	1.40	same	same
PM <sub>10</sub>					
Sulfur Dioxide	attainment	0.002 lb/hr	0.01	same	same
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide	attainment	0.54 lb/hr	2.37	same	same
Lead					
Other: HF	attainment	0.13 lb/hr	0.57	same	same

APPLICABLE FEDERAL RULES:

NSPS? NO NESHAP? NO PSD? NO OFFSET POLICY? NO

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination Compliance with the terms and conditions of this permit.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? NO

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED\*? YES X NO

IDENTIFY THE AIR CONTAMINANTS:

