



State of Ohio Environmental Protection Agency

**RE: DRAFT PERMIT TO INSTALL MODIFICATION
STARK COUNTY**

CERTIFIED MAIL

Street Address:

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

Mailing Address:

Lazarus Gov. Center

Application No: 15-01250

DATE: 8/26/2003

The Timken Co
Daniel Lake
1835 Dueber Ave SW
Canton, OH 447060928

You are hereby notified that the Ohio Environmental Protection Agency has made a draft action recommending that the Director issue a Permit to Install modification for the air contaminant source(s) [emissions unit(s)] shown on the enclosed draft permit modification. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the proposed installation. A public notice concerning the draft permit will appear in the Ohio EPA Weekly Review and the newspaper in the county where the facility will be located. Public comments will be accepted by the field office within 30 days of the date of publication in the newspaper. Any comments you have on the draft permit modification should be directed to the appropriate field office within the comment period. A copy of your comments should also be mailed to Robert Hodanbosi, Division of Air Pollution Control, Ohio EPA, P.O. Box 1049, Columbus, OH, 43266-0149.

A Permit to Install modification may be issued in proposed or final form based on the draft action, any written public comments received within 30 days of the public notice, or record of a public meeting if one is held. You will be notified in writing of a scheduled public meeting. Upon issuance of a final Permit to Install modification a fee of \$ 0 will be due. Please do not submit any payment now.

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. If you have any questions about this draft permit, please contact the field office where you submitted your application, or Mike Ahern, Field Operations & Permit Section at (614) 644-3631.

Very truly yours,

Michael W. Ahern

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

CC: USEPA Canton LAA Stark County Area Trans Study WW PA



STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

Permit To Install

Issue Date: To be entered upon final issuance

DRAFT MODIFICATION OF PERMIT TO INSTALL 15-01250

Application Number: 15-01250
APS Premise Number: 1576000613
Permit Fee: **To be entered upon final issuance**
Name of Facility: The Timken Co
Person to Contact: Daniel Lake
Address: 1835 Dueber Ave SW
Canton, OH 447060928

Location of proposed air contaminant source(s) [emissions unit(s)]:

**1835 Dueber Ave SW
Canton, Ohio**

Description of proposed emissions unit(s):

Administrative Modification Enter the SO₂ allowable.

The above named entity is hereby granted a modification to the permit to install described above pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this modification 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 source(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 included in the application, the above described source(s) of pollutants will be granted the necessary operating permits.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

The Timken Co

Facility ID: 1576000613

PTI Application: 15-01250

Issued: To be entered upon final issuance

Part I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Permit To Install General Terms and Conditions

1. Monitoring and Related Record keeping and Reporting Requirements

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
 - i. The date, place (as defined in the permit), and time of sampling or measurements.
 - ii. The date(s) analyses were performed.
 - iii. The company or entity that performed the analyses.
 - iv. The analytical techniques or methods used.
 - v. The results of such analyses.
 - vi. The operating conditions existing at the time of sampling or measurement.
- b. 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.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
 - i. Reports of any required monitoring and/or record keeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
 - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and record keeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the appropriate Ohio EPA District Office or local air agency. The written 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. See B.9 below if no deviations occurred during the quarter.

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- iii. Written reports, which identify any deviations from the federally enforceable monitoring, record keeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
- iv. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.

2. 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, i.e., upset, 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. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to 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 emission unit(s) that is (are) served by such control system(s).

3. Risk Management Plans

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

4. Title IV Provisions

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

5. Severability Clause

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A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

6. General Requirements

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.
- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. 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 request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

7. 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.

8. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit

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shall not be federally enforceable and shall be enforceable under State law only.

9. Compliance Requirements

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
 - i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
 - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.
 - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
 - i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

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10. Permit To Operate Application

- a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).
- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this Permit To Install is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. 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 source(s) covered by this permit.

11. 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.

12. 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.

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Issued: To be entered upon final issuance

B. State Only Enforceable 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 of state-only enforceable 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 state-only required 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. 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.

4. 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

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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.

5. 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 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.

6. 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.

7. 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).

8. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the

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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.

9. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)

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.

C. 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>
SO ₂	0.7
NO _x	153.3
PM	8.53
PM ₁₀	8.53
CO	94.52
VOC	6.26

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Part II - FACILITY SPECIFIC TERMS AND CONDITIONS

A. State and Federally Enforceable Permit To Install Facility Specific Terms and Conditions

None

B. State Only Enforceable Permit To Install Facility Specific Terms and Conditions

None

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Emissions Unit ID: P284

Issued: To be entered upon final issuance

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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.

Operations, Property,
and/or Equipment

Applicable Rules/Requirements

P284 - 228 mmBtu/hr
natural gas fired reheat
furnace; new bar mill

OAC rule 3745-31-05(A)(3)

OAC rule 3745-17-11

OAC rule 3745-18-06(D)

OAC rule 3745-17-07(A)(1)

Applicable Emissions
Limitations/Control
Measures

The nitrogen oxide (NO_x) shall not exceed 0.13 lb NO_x/mmBtu, 30 lbs/hr and 131.4 tons/yr.

The carbon monoxide (CO) shall not exceed 18.48 lbs/hr and 80.94 tons/yr.

The volatile organic compound (VOC) shall not exceed 1.21 lbs/hr and 5.3 tons/yr.

Particulate emissions shall not exceed 1.67 lbs/hr and 7.31 tons/yr.

PM₁₀ shall not exceed 1.67 lbs/hr and 7.31 tons/yr.

The sulfur dioxide (SO₂) shall not exceed 0.13 lb/hr and 0.6 ton/yr.

The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).

See Section I.2.2a.

Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

The emission limitation specified by this rule is less stringent than the emission

limitation established pursuant to OAC rule 3745-31-05(A)(3).

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

Issued: To be entered upon final issuance**2. Additional Terms and Conditions**

2.a Best Available Technology (BAT) shall equipped with low NO_x burners.

II. Operational Restrictions

1. Only natural gas shall be burned in these two furnaces.

III. Monitoring and/or Record keeping Requirements

1. Records shall be maintained of the total annual amount of natural gas burned in these two furnaces.

IV. Reporting Requirements

None

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I.1. of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions Limitation:

Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method(s):

Compliance shall be determined by visible emission observations performed in accordance with USEPA Reference Method 9 in 40 CFR, Part 60, Appendix A, and the procedures specified in OAC rule 3745-17-03(B)(1).

b. Emissions Limitation:

The nitrogen oxide (NO_x) shall not exceed 0.13 lb NO_x/mmBtu, 30 lbs/hr and 131.4 tons/yr.

Applicable Compliance Method:

The emission limitations were based upon emission factors from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.4, Table 1.4-1 (7/98).

Compliance with the hourly emission limitation shall be determined by converting the 100 lbs NO_x/10⁶ scf emission factor into lbs NO_x/mmBtu by dividing by 1,040 Btu/scf, and then multiplying this value by the maximum heat input rating of the boiler (228

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mmBtu/hr). Compliance with the annual emission limitation shall be determined by multiplying the hourly emission limitation by 8760 hrs/yr and dividing by 2000 lbs/ton.

c. Emissions Limitation:

The carbon monoxide (CO) shall not exceed 18.48 lbs/hr and 80.94 tons/yr,

Applicable Compliance Method:

The emission limitations were based upon emission factors from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.4, Table 1.4-1 (7/98). Compliance with the hourly emission limitation shall be determined by converting the 84 lbs CO/10⁶ scf emission factor into lbs CO/mmBtu by dividing by 1,040 Btu/scf, and then multiplying this value by the maximum heat input rating of the boiler (228 mmBtu/hr). Compliance with the annual emission limitation shall be determined by multiplying the hourly emission limitation by 8760 hrs/yr and dividing by 2000 lbs/ton.

d. Emissions Limitation:

The volatile organic compound (VOC) shall not exceed 1.21 lbs/hr and 5.3 tons/yr.

Applicable Compliance Method:

The emission limitations were based upon emission factors from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.4, Table 1.4-2 (7/98). Compliance with the hourly emission limitation shall be determined by converting the 5.5 lbs VOC/10⁶ scf emission factor into lbs TOC/mmBtu by dividing by 1,040 Btu/scf, and then multiplying this value by the maximum heat input rating of the boiler (228 mmBtu/hr). Compliance with the annual emission limitation shall be determined by multiplying the hourly emission limitation by 8760 hrs/yr and dividing by 2000 lbs/ton.

e. Emissions Limitation:

The sulfur dioxide (SO₂) shall not exceed 0.13 lb/hr and 0.6 ton/yr.

Applicable Compliance Method:

The emission limitations were based upon emission factors from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.4, Table 1.4-2 (7/98). Compliance with the hourly emission limitation shall be determined by converting the 0.6 lb SO₂/10⁶ scf emission factor into lbs SO₂/mmBtu by dividing by 1,040 Btu/scf, and then multiplying this value by the maximum heat input rating of the boiler (228 mmBtu/hr). Compliance with the annual emission limitation shall be determined by multiplying the hourly emission limitation by 8760 hrs/yr and dividing by 2000 lbs/ton.

f. Emissions Limitation:

Particulate emissions shall not exceed 1.67 lbs/hr and 7.31 tons/yr.

Applicable Compliance Method:

The emission limitations were based upon emission factors from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.4, Table 1.4-2 (7/98). Compliance with the hourly emission limitation shall be determined by converting the 7.6 lb PM/10⁶ scf emission factor into lbs PM/mmBtu by dividing by 1,040 Btu/scf, and then multiplying this value by the maximum heat input rating of the boiler (228 mmBtu/hr). Compliance with the annual emission limitation shall be determined by multiplying the hourly emission limitation by 8760 hrs/yr and dividing by 2000 lbs/ton.

- g. Emissions Limitation:
PM₁₀ shall not exceed 1.67 lbs/hr and 7.31 tons/yr.

Applicable Compliance Method:

The emission limitations were based upon emission factors from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.4, Table 1.4-2 (7/98). Compliance with the hourly emission limitation shall be determined by converting the 7.6 lb PM/10⁶ scf emission factor into lbs PM/mmBtu by dividing by 1,040 Btu/scf, and then multiplying this value by the maximum heat input rating of the boiler (228 mmBtu/hr). Compliance with the annual emission limitation shall be determined by multiplying the hourly emission limitation by 8760 hrs/yr and dividing by 2000 lbs/ton.

VI. Miscellaneous Requirements

1. If the shut down of the existing furnaces (P032 and P066), are to be credited as decreases in the netting determination, these furnaces must be permanently shut down no later than 180 days after the startup of either of the two new furnaces (P284 and P285).

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Emissions Unit ID: **P284**

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B. State Only Enforceable Section

I. 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>
P284 - 228 mmBtu/hr natural gas fired reheat furnace; new bar mill	OAC rule 3745-31-05	LIMIT(s)

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

**The T
PTI A**

Emissions Unit ID: **P285**

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Applicable Emissions
Limitations/Control
Measures

The nitrogen oxide (NO_x) shall not exceed 0.13 lb NO_x/mmBtu, 5 lbs/hr and 21.9 tons/yr.

The carbon monoxide (CO) shall not exceed 3.1 lbs/hr and 13.58 tons/yr.

The volatile organic compound (VOC) shall not exceed 0.2 lb/hr and 0.88 ton/yr.

Particulate emissions shall not exceed 0.28 lb/hr and 1.22 tons/yr.

PM₁₀ shall not exceed 0.28 lb/hr and 1.22 tons/yr.

The sulfur dioxide (SO₂) shall not exceed 0.022 lb/hr and 0.1 ton/yr.

The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).

See Section 2.2a

Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

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

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

Issued: To be entered upon final issuance**2. Additional Terms and Conditions**

2.a Best Available Technology (BAT) shall equipped with low NO_x burners.

II. Operational Restrictions

1. Only natural gas shall be burned in these two furnaces.

III. Monitoring and/or Record keeping Requirements

1. Records shall be maintained of the total annual amount of natural gas burned in these two furnaces.

IV. Reporting Requirements

None

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I.1. of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions Limitation:

Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method(s):

Compliance shall be determined by visible emission observations performed in accordance with USEPA Reference Method 9 in 40 CFR, Part 60, Appendix A, and the procedures specified in OAC rule 3745-17-03(B)(1).

b. Emissions Limitation:

The nitrogen oxide (NO_x) shall not exceed 0.13 lb NO_x/mmBtu, 5 lbs/hr and 21.9 tons/yr.

Applicable Compliance Method:

The emission limitations were based upon emission factors from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.4, Table 1.4-1 (7/98).

Compliance with the hourly emission limitation shall be determined by converting the 100 lbs NO_x/10⁶ scf emission factor into lbs NO_x/mmBtu by dividing by 1,040 Btu/scf, and then multiplying this value by the maximum heat input rating of the boiler (38.4 mmBtu/hr). Compliance with the annual emission limitation shall be determined by

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multiplying the hourly emission limitation by 8760 hrs/yr and dividing by 2000 lbs/ton.

c. Emissions Limitation:

The carbon monoxide (CO) shall not exceed 3.1 lbs/hr and 13.58 tons/yr,

Applicable Compliance Method:

The emission limitations were based upon emission factors from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.4, Table 1.4-1 (7/98). Compliance with the hourly emission limitation shall be determined by converting the 84 lbs CO/10⁶ scf emission factor into lbs CO/mmBtu by dividing by 1,040 Btu/scf, and then multiplying this value by the maximum heat input rating of the boiler (38.4 mmBtu/hr). Compliance with the annual emission limitation shall be determined by multiplying the hourly emission limitation by 8760 hrs/yr and dividing by 2000 lbs/ton.

d. Emissions Limitation:

The volatile organic compound (VOC) shall not exceed 0.2 lb/hr and 0.88 ton/yr.

Applicable Compliance Method:

The emission limitations were based upon emission factors from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.4, Table 1.4-2 (7/98). Compliance with the hourly emission limitation shall be determined by converting the 5.5 lbs VOC/10⁶ scf emission factor into lbs TOC/mmBtu by dividing by 1,040 Btu/scf, and then multiplying this value by the maximum heat input rating of the boiler (38.4 mmBtu/hr). Compliance with the annual emission limitation shall be determined by multiplying the hourly emission limitation by 8760 hrs/yr and dividing by 2000 lbs/ton.

e. Emissions Limitation:

The sulfur dioxide (SO₂) shall not exceed 0.022 lb/hr and 0.1 ton/yr.

Applicable Compliance Method:

The emission limitations were based upon emission factors from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.4, Table 1.4-2 (7/98). Compliance with the hourly emission limitation shall be determined by converting the 0.6 lb SO₂/10⁶ scf emission factor into lbs SO₂/mmBtu by dividing by 1,040 Btu/scf, and then multiplying this value by the maximum heat input rating of the boiler (38.4 mmBtu/hr). Compliance with the annual emission limitation shall be determined by multiplying the hourly emission limitation by 8760 hrs/yr and dividing by 2000 lbs/ton.

f. Emissions Limitation:

Particulate emissions shall not exceed 0.28 lb/hr and 1.22 tons/yr.

Applicable Compliance Method:

The emission limitations were based upon emission factors from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.4, Table 1.4-2 (7/98). Compliance with the hourly emission limitation shall be determined by converting the 7.6 lb PM/10⁶ scf emission factor into lbs PM/mmBtu by dividing by 1,040 Btu/scf, and then multiplying this value by the maximum heat input rating of the boiler (38.4 mmBtu/hr). Compliance with the annual emission limitation shall be determined by multiplying the hourly emission limitation by 8760 hrs/yr and dividing by 2000 lbs/ton.

- g. Emissions Limitation:
PM₁₀ shall not exceed 0.28 lb/hr and 1.22 tons/yr.

Applicable Compliance Method:

The emission limitations were based upon emission factors from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.4, Table 1.4-2 (7/98). Compliance with the hourly emission limitation shall be determined by converting the 7.6 lb PM/10⁶ scf emission factor into lbs PM/mmBtu by dividing by 1,040 Btu/scf, and then multiplying this value by the maximum heat input rating of the boiler (38.4 mmBtu/hr). Compliance with the annual emission limitation shall be determined by multiplying the hourly emission limitation by 8760 hrs/yr and dividing by 2000 lbs/ton.

VI. Miscellaneous Requirements

1. If the shut down of the existing furnaces (P032 and P066), are to be credited as decreases in the netting determination, these furnaces must be permanently shut down no later than 180 days after the startup of either of the two new furnaces (P284 and P285).

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Emissions Unit ID: **P285**

Issued: To be entered upon final issuance

B. State Only Enforceable Section

I. 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>
P285 - 38.4 mmBtu/hr natural gas fired reheat furnace	OAC rule 3745-31-05	LIMIT(s)

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None