



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL MODIFICATION
BUTLER 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: 14-04276

Fac ID: 1409030403

DATE: 9/28/2004

M. Bohlke Veneer Corporation
Daniel Stapleton
2904 Symmes Road
Fairfield, OH 45014

Enclosed Please find a modification to the Ohio EPA Permit To Install referenced above which will modify the terms and conditions.

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
309 South Fourth Street, Room 222
Columbus, Ohio 43215

Sincerely,

Michael W. Ahern, Manager
Permit Issuance and Data Management Section
Division of Air Pollution Control

cc: USEPA

HCDES



**Permit To Install
Terms and Conditions**

**Issue Date: 9/28/2004
Effective Date: 9/28/2004**

FINAL ADMINISTRATIVE MODIFICATION OF PERMIT TO INSTALL 14-04276

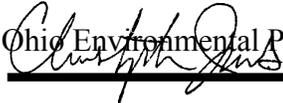
Application Number: 14-04276
Facility ID: 1409030403
Permit Fee: **\$0**
Name of Facility: M. Bohlke Veneer Corporation
Person to Contact: Daniel Stapleton
Address: 2904 Symmes Road
Fairfield, OH 45014

Location of proposed air contaminant source(s) [emissions unit(s)]:
**2904 Symmes Road
Fairfield, Ohio**

Description of proposed emissions unit(s):
Administrative Modification of PTI 14-04276, issued 4/9/1997, for a 13.68 mmBtu/hr wood-fired thermal oil heater with multiclone/controlled draft system.

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

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

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping 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 recordkeeping 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

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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

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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 Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

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

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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>
PM	12.5
PM10	4.5
CO	23.7
NOx	11.4
SO2	1.4
VOC	0.9

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PTI A

Modification Issued: 9/28/2004

Emissions Unit ID: B003

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>
B003 - 13.68 MMBtu/hr Konus Suspension-type Wood-fired Heat Exchanger w/Multiclones and oil-fired preheat burner - Modification	OAC rule 3745-31-05(A)(3) OAC rule 3745-35-07(B)
	OAC rule 3745-17-07(A)(1)
	OAC rule 3745-17-10(C)(1)

OAC rule 3745-21-08

OAC rule 3745-23-06(B)

40 CFR Part 60, Subpart Dc

Applicable Emissions
 Limitations/Control Measures

When burning wood:

- 0.24 lb PE/MMBtu
- 0.087 lb PM10/MMBtu
- 0.456 lb CO/MMBtu
- 0.22 lb NOx/MMBtu
- 0.025 lb SO2/MMBtu
- 0.017 lb VOC/MMBtu

When burning No. 2 fuel oil:

- 0.01 lb PE/MMBtu
- 0.01 lb PM10/MMBtu
- 0.04 lb CO/MMBtu
- 0.14 lb NOx/MMBtu
- 0.50 lb SO2/MMBtu
- 0.002 lb VOC/MMBtu

See terms B.2 and B.3.

Visible particulate emissions from any stack shall not exceed 10 percent opacity, as a six-minute average, except as specified by rule.

The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-08, OAC rule 3745-23-06(B), OAC rule 3745-35-07(B) and 40 CFR Part 60, Subpart Dc

The following emission limits are based on a rolling, 12-month summation for burning wood and fuel oil combined:
 12.5 TPY PE

- 4.5 TPY PM10
- 23.7 TPY CO
- 11.4 TPY NOx
- 1.4 TPY SO2
- 0.9 TPY VOC

See terms A.2.d and B.1

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

See term A.2.e

See term A.2.f

See terms A.2.c and C.7

2. Additional Terms and Conditions

- 2.a** The PE, PM10, CO, NO_x, VOC, and SO₂ (for wood fuel only) lb/MMBtu emission limitations outlined in term A.1. are based on the emission unit's Potential to Emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.
- 2.b** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of a multicyclone system, and compliance with the emission limits, opacity limitations, oil sulfur content, and fuel usage restrictions.
- 2.c** The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.
- 2.d** The total allowable emissions of carbon monoxide (CO) from emissions units B001 (15 MMBtu/hr wood-fired heater exchanger, Permit to Install 14-05591), B002 (17.8 MMBtu/hr wood-fired heat exchanger Permit to Install #14-00930), and B003 (13.7 MMBtu/hr wood-fired heat exchanger Permit to Install #14-04276), shall not exceed 96 TPY CO. Compliance with the above limitation shall be based on a rolling, 12-month summation of the CO emissions.
- 2.e** The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) 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.
- On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.
- 2.f** The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) 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 maximum annual wood usage rate for this emissions unit shall not exceed 10,000 tons per year, based upon a rolling, 12-month summation of the wood usage. The company has existing records to demonstrate compliance upon issuance of this permit, therefore first year monthly wood usage amounts are not necessary.
2. The maximum annual No. 2 fuel oil usage rate for this emissions unit shall not exceed 3000 gallons per year, based upon a rolling, 12-month summation of fuel oil usage. The company has existing records to demonstrate compliance upon issuance of this permit, therefore first year monthly fuel oil usage amounts are not necessary.
3. The quality of the fuel oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in Section A.1. above. The sulfur content of the fuel oil shall not to exceed 0.5 percent sulfur by weight.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the wood usage rate for each month and the updated, rolling, 12-month summation for wood usage, in tons, for this emissions unit (the total amount of wood burned for the current month plus the total amount of wood burned for the previous eleven calendar months).
2. The permittee shall maintain monthly records of the No. 2 fuel oil usage rate and the updated, rolling, 12-month summation for No. 2 fuel oil usage, in gallons, for this emissions unit (the total amount of fuel oil used for the current month plus the total amount of fuel oil used for the previous eleven calendar months).
3. The permittee shall maintain monthly records of the updated, rolling, 12-month summation for CO emissions, in tons, for emissions units B001, B002 and B003 combined (the total amount of emissions for the current month plus the total amount of emissions for the previous eleven calendar months).
4. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the name of the supplier, the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lb/MMBtu). [The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).] A shipment may be comprised of multiple tank truck loads from the same supplier's batch, or may be represented by single or multiple pipeline deliveries from the same supplier's batch, and the quality of the oil for those loads or pipeline

deliveries may be represented by a single batch analysis from the supplier.

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240 and D4294), or equivalent methods as approved by the Director.

The permittee shall maintain a record of certification from each oil supplier that the fuel oil complies with the definition of distillate oil in accordance with 40 CFR Part 60.41c.

The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.

a. Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lb/MMBtu). [The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).] A shipment may be comprised of multiple tank truck loads from the same supplier's batch, and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.

b. Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lb/MMBtu). [The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).]

5. The permittee shall maintain monthly records of the PE/PM10, CO, NO_x, SO₂ and VOC emissions for each month and the updated, rolling, 12-month summation for the PE/PM10, CO, NO_x, SO₂ and VOC emissions, in tons, for emissions unit B003 (the total amount of emissions for the current month plus the total amount of emissions for the previous eleven calendar months).

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Facility ID: 1409030403

Emissions Unit ID: B003

6. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

7. The permittee shall maintain daily records of the amount of wood and no. 2 fuel oil combusted.

D. Reporting Requirements

1. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from Section C.4. above. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 45 days after the deviation occurs.
2. The permittee shall submit deviation (excursion) reports which identify all exceedances of the following:
 - a. an identification of all exceedances of the rolling 12-month wood usage restriction for this emissions unit;
 - b. an identification of all exceedances of the rolling 12-month No. 2 fuel oil usage restriction for this emissions unit;
 - c. an identification of all exceedances of the rolling 12-month emission limitation of PE/PM10, CO, NO_x, SO₂ and VOC for this emissions unit.
2. The deviation reports shall be submitted in accordance with the reporting requirements specified in Part I - General Terms and Conditions of this permit.
3. The permittee shall submit quarterly reports which identify the updated rolling, 12-month summation of CO emissions for each calendar month for emissions units B001, B002, and B003 combined, as specified in term A.2.d. The reports shall be submitted to the Hamilton County Department of Environmental Services-Air Quality Management Division by January 31, April 30, July 31, and October 31 of each year and shall cover the previous three calendar months.
4. The permittee shall submit annual reports that specify the total PE, PM10, NO_x, CO, SO₂, and VOC emissions from this emissions unit for the calendar year. These reports shall be submitted by April 15 of each year. The reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.
5. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit which are not representative of normal operations and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Hamilton County Department of Environmental Services-Air Quality Management Division by January 31 and July

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PTI A

Modification Issued: 9/28/2004

Emissions Unit ID: **B003**

31 of each year and shall cover the previous 6-month period.

E. Testing Requirements

1. Compliance with the emission limitations and operating limitations specified in Sections A and B shall be determined by the following methods:

- a. Emission Limitations for wood combustion:
0.22 lb NO_x/MMBtu
0.025 lb SO₂/MMBtu
0.017 lb VOC/MMBtu

Applicable Compliance Method: These emission limitations are based upon the emission unit's potential to emit and related emissions factors found in USEPA AP-42, Fifth Edition, Section 1.6 Wood Residue Combustion in Boilers, Tables 1-6.2 and 1.6-3 (revised 9/2003).

If required, the permittee shall demonstrate compliance with the NO_x emission limitation through emission tests performed in accordance with Methods 1-4 and 7 of 40 CFR Part 60, Appendix A.

If required, the permittee shall demonstrate compliance with the SO₂ emission limitation through emission tests performed in accordance with Methods 1-4 and 6 of 40 CFR Part 60, Appendix A.

If required, the permittee shall demonstrate compliance with the VOC emission limitation through emission tests performed in accordance with Methods 1-4 and 25 of 40 CFR Part 60, Appendix A.

- b. Emission Limitations for wood combustion:
0.24 lb PE/MMBtu
0.087 lb PM₁₀/MMBtu
0.456 lb CO/MMBtu

Applicable Compliance Method: The PM, PM₁₀, and CO emission limitations are based upon manufacturers guaranteed emissions data provided with the PTI #14-04276 application, submitted November 19, 1996.

The permittee shall demonstrate compliance with the PM/PM₁₀ and CO emission limitations based upon the results of emission testing required in Section E.2. of this permit.

c. Emission Limitations for fuel oil combustion:

0.01 lb PE/MMBtu
0.01 lb PM10/MMBtu
0.04 lb CO/MMBtu
0.14 lb NO_x/MMBtu
0.50 lb SO₂/MMBtu
0.002 lb VOC/MMBtu

Applicable Compliance Method: These emission limitations are based upon the emission unit's potential to emit and related emissions factors found in USEPA AP-42, Fifth Edition, Section 1.3 Fuel Oil Combustion in Boilers, Tables 1-3.1 and 1.3-3 (revised 9/1998).

If required, the permittee shall demonstrate compliance with the PE/PM10 emission limitation through emission tests performed in accordance with Methods 1-4 and 5 of 40 CFR Part 60, Appendix A.

If required, the permittee shall demonstrate compliance with the CO emission limitation through emission tests performed in accordance with Methods 1-4 and 10 of 40 CFR Part 60, Appendix A.

If required, the permittee shall demonstrate compliance with the NO_x emission limitation through emission tests performed in accordance with Methods 1-4 and 7 of 40 CFR Part 60, Appendix A.

If required, the permittee shall demonstrate compliance with the SO₂ emission limitation through emission tests performed in accordance with Methods 1-4 and 6 of 40 CFR Part 60, Appendix A.

If required, the permittee shall demonstrate compliance with the VOC emission limitation through emission tests performed in accordance with Methods 1-4 and 25 of 40 CFR Part 60, Appendix A.

d. Emissions limitations for wood and fuel oil combustion, combined:

12.5 TPY PE*
4.5 TPY PM10*
23.7 TPY CO*
11.4 TPY NO_x*
1.4 TPY SO₂*
0.9 TPY VOC*

*These emission limitations are per rolling, 12-month summation

Applicable Compliance Method: Compliance with the above emission limitations may be demonstrated by the record keeping requirements specified in term and condition C.5, emission test data, and related emissions factors found in USEPA AP-42, Fifth Edition, Section 1.6 Wood Residue Combustion in Boilers, Tables 1.6-2 and 1.6-3 (revised 9/2003) .and USEPA AP-42, Fifth Edition, Section 1.3 Fuel Oil Combustion in Boilers, Tables 1-3.1 and 1-3.3 (revised 9/1998).

- e. Emissions limitations for wood and fuel oil combustion, combined:
96 TPY CO for B001, B002, and B003 combined, as a rolling 12-month summation

Applicable Compliance Method: Compliance with the above CO emission limitation specified in term A.2.d shall be demonstrated by the record keeping requirements in Section C.3.

- f. Emissions limitation:
Visible PE shall not exceed 10 percent opacity, as a 6-minute average.

Applicable Compliance Method: If required, compliance shall be demonstrated by the methods specified in 40 CFR 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

- g. Operating Restriction:
The maximum wood usage rate for this emissions unit shall not exceed 10,000 tons, based upon a rolling, 12-month summation of the wood usage.

Applicable Compliance Method: Compliance with the wood usage restriction shall be demonstrated by the record keeping requirements in Section C.1.

- h. Operating Restriction:
The maximum No. 2 fuel oil usage rate for this emissions unit shall not exceed 3,000 gallons/year, based upon a rolling, 12-month summation of fuel oil usage.

Applicable Compliance Method: Compliance with the fuel oil usage restriction shall be demonstrated by the record keeping requirements in Section C.2.

- i. Operating Restriction:
The quality of the fuel oil burned in this emissions unit shall meet a sulfur content that is

Emissions Unit ID: **B003**

sufficient to comply with the allowable sulfur dioxide emission limitation specified in Section A.1. above, not to exceed 0.5 percent by weight.

Applicable Compliance Method: When firing No. 2 fuel oil, compliance with the allowable sulfur fuel oil sulfur content and sulfur dioxide emission limitation shall be demonstrated by the record keeping requirements in Section C.4.

2. If not previously conducted and reported, the permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within twelve months after issuance of this permit.

 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission limit for particulate of 0.24 lb PM/MMBtu and the allowable CO emission limitation of 0.456 lb/MMBtu.

 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

Method 5 of 40 CFR Part 60, Appendix A for particulate
Method 10 of 40 CFR Part 60, Appendix A for CO

Alternative U.S. EPA approved test methods may be used with prior approval from the Hamilton County Department of Environmental Services.

 - d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Hamilton County Department of Environmental Services.

 - e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Hamilton County Department of Environmental Services. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the

Hamilton County Department of Environmental Services refusal to accept the results of the emission test(s).

Personnel from the Hamilton County Department of Environmental Services shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Hamilton County Department of Environmental Services within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Hamilton County Department of Environmental Services.

M. Bo

PTI A

Modification Issued: 9/28/2004

Emissions Unit ID: **B003**

F. Miscellaneous Requirements

1. The terms and conditions listed in this permit to install shall supercede all the air pollution control requirements contained in permit to install 14-04276 as issued on April 9, 1997.
2. The following terms and conditions of this permit are federally enforceable: Sections A, B, C, D, and E.