Ohio Environmental Protection Agency
John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

6/30/2011

Certified Mail

Facility ID: 0250000989
Permit Number: P0085674
County: Mahoning

TIM BAIRD
BAIRD BROTHERS SAWMILL INC
7060 CRORY RD
CANFIELD, OH 44406

RE: DRAFT AIR POLLUTION TITLE V PERMIT
Permit Type: Renewal

Dear Permit Holder:

A draft of the OAC Chapter 3745-77 Title V permit for the referenced facility has been issued. The purpose of this draft is to solicit public comments. A public notice will appear in the Ohio EPA Weekly Review and the local newspaper, Youngstown-Vindicator. A copy of the public notice, the Statement of Basis, and the draft permit are enclosed. This permit can be accessed electronically on the Division of Air Pollution Control (DAPC) Web page,www.epa.ohio.gov/dapc by clicking the "Issued Air Pollution Control Permits" link. Comments will be accepted as a marked-up copy of the draft permit or in narrative format. Any comments must be sent to the following:

Andrew Hall
Permit Review/Development Section
Ohio EPA, DAPC
50 West Town Street, Suite 700
P.O. Box 1049
Columbus, Ohio 43216-1049

and

Ohio EPA DAPC, Northeast District Office
2110 East Aurora Road
Twinsburg, OH 44087

Comments and/or a request for a public hearing will be accepted within 30 days of the date the notice is published in the newspaper. You will be notified in writing if a public hearing is scheduled. A decision on processing the Title V permit will be made after consideration of comments received and oral testimony if a public hearing is conducted. You will then be provided with a Preliminary Proposed Title V permit and another opportunity to comment prior to the 45-day Proposed Title V permit submittal to U.S. EPA Region 5. The permit will be issued final after U.S. EPA review is completed and no objections to the final issuance have been received. If you have any questions, please contact Ohio EPA DAPC, Northeast District Office at (330)425-9171.

Sincerely,

Michael W. Ahern

Michael W. Ahern, Manager

Permit Issuance and Data Management Section, DAPC

Cc: U.S. EPA Region 5 -*Via E-Mail Notification*
Ohio EPA-NEDO; Pennsylvania; West Virginia

Mahoning County

PUBLIC NOTICE
Issuance of Draft Air Pollution Title V Permit
BAIRD BROTHERS SAWMILL INC

Issue Date: 6/30/2011
Permit Number: P0085674
Permit Type: Renewal
Permit Description: TV renewal of permit for sawmill, including wood-fired boiler, woodworking equipment, wood coating lines and RICE.
Facility ID: 0250000989
Facility Location: BAIRD BROTHERS SAWMILL INC
7060 CRORY RD,
CANFIELD, OH 44406
Facility Description: Other Millwork (including Flooring)

The Director of the Ohio Environmental Protection Agency, 50 West Town Street, Columbus Ohio, has issued a draft action of an air pollution control Title V operating permit for the facility at the location identified above on the date indicated. Comments concerning this draft action, or a request for a public meeting, must be sent in writing no later than thirty (30) days from the date this notice is published. All comments, questions, requests for permit applications or other pertinent documentation, and correspondence concerning this action must be directed to Jana Gannon at Ohio EPA DAPC, Northeast District Office, 2110 East Aurora Road, Twinsburg, OH 44087 or (330)425-9171. The permit, which includes a detailed description of the operations, and associated statement of basis for the permit requirements, can be downloaded from the Web page: www.epa.ohio.gov/dapc

Statement of Basis For Air Pollution Title V Permit

Facility ID:	0250000989
Facility Name:	BAIRD BROTHERS SAWMILL INC
Facility Description:	Sawmill
Facility Address:	7060 CRORY RD, CANFIELD, OH 44406
Permit #:	P0085674, Renewal

This facility is subject to Title V because it is major for:

☐ Lead ☐ Sulfur Dioxide ☒ Carbon Monoxide ☒ Volatile Organic Compounds ☒ Nitrogen Oxides
☐ Particulate Matter ≤ 10 microns ☐ Single Hazardous Air Pollutant ☐ Combined Hazardous Air Pollutants
☒ Maximum Available Control Technology Standard(s): **Subpart DDDDD, Subpart ZZZZ**

A. Standard Terms and Conditions

Has each insignificant emissions unit been reviewed to confirm it meets the definition in OAC rule 3745-77-01 (U)?	Yes
Were there any "common control" issues associated with this facility? If yes, provide a summary of those issues and explain how the DAPC decided to resolve them.	No
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a minor permit modification per OAC rule 3745-77-08(C)(1)	N/A
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a significant permit modification per OAC rule 3745-77-08(C)(3)	N/A

Please identify the affected unit(s)and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a reopening per OAC rule 3745-77-08(D)	N/A
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document resulting from a renewal per OAC rule 3745-77-08(E)	1) 5 RICE were added, including 40 CFR 63 Subpart ZZZZ. 2) The permit was updated to include the most recent language. 3) The authority for terms was added to each term and condition.

B. Facility-Wide Terms and Conditions

Term and Condition (paragraph)	Basis		Comments
	SIP (3745-)	Other	
B.2	N	Y	List of insignificant EUs with applicable requirements.

C. Emissions Unit Terms and Conditions

Key:
EU = emissions unit ID
ND = negative declaration (i.e., term that indicates that a particular rule(s) is (are) not applicable to a specific emissions unit)
OR = operational restriction
M = monitoring requirements
St = streamlining term used to replace a PTI monitoring, record keeping, or reporting requirement with an equivalent or more stringent requirement
ENF = did noncompliance issues drive the monitoring requirements?
R = record keeping requirements
Rp = reporting requirements
ET = emission testing requirements (not including compliance method terms)
Misc = miscellaneous requirements

EU(s)	Limitation	Basis		ND	OR	M	St	ENF	R	St	Rp	St	ET	Misc	Comments
		SIP (3745-)	Other												
B001	PE: 0.10 lb/mmBtu, 7.18 TPY SO2: 0.41 lb/hr, 1.80		31-05(A)(3)	N	Y	Y	N	N	Y	N	Y	N	Y	N	SO2, CO, NOx and OC based on PTE so no M, R or Rp. OR: Only wood waste is to be burned, since the emissions were based on these factors. The pressure drop across the baghouse shall be maintained within 2 to 6 inches of water to demonstrate proper operation.

	TPY CO: 9.84 lbs/hr, 43.10 TPY NOx: 8.04 lb/hr, 35.20 TPY OC: 0.64 lb/hr, 2.80 TPY														
B001	Visible PE shall not exceed 20% opacity as a 6 minute avg.	17-07(A)(1)		N	Y	Y	N	N	Y	N	Y	N	N	N	OR – Only wood waste is to be burned, since the emissions were based on these factors. The pressure drop across the baghouse shall be maintained within 2 to 6 inches of water to demonstrate proper operation. ET – Method 9 if required. Daily checks done to verify compliance.
B001	Less stringent than 31-05(A)(3)	17-10(C)(1)		N	N	N	N	N	N	N	N	N	N	N	See 3745-31-05(A)(3).
B001	NA		40 CFR 60, Subpart Dc	N	N	Y	N	N	N	N	Y	N	N	N	NSPS for this size wood boiler only requires records of fuel combusted and initial notification.
B001			40 CFR 63, Subpart DDDDD												Rule is being reconsidered. No current requirements.
F001, F002	PE: 0.01 gr/dscf, 6.15 lbs/hr, 26.89 TPY for F001; 2.40 lbs/hr, 10.51 TPY for F002		31-05(A)(3)	N	Y	Y	N	N	Y	N	Y	N	N	N	OR: The pressure drop across the baghouse shall be maintained within appropriate range to demonstrate proper operation. ET: Method 9 if required. Weekly checks done to verify compliance.

F001,F002	Visible PE shall not exceed 20% opacity as a 6 minute avg.	17-07(A)		N	Y	Y	N	N	Y	N	Y	N	N	N	OR – The pressure drop across the baghouse shall be maintained within appropriate range to demonstrate proper operation. ET: Method 9 if required. Weekly checks done to verify compliance.
F001, F002	Visible fugitive PE shall not exceed 20% opacity as a 3 minute avg.	17-07(B)		N	Y	Y	N	N	Y	N	Y	N	N	N	OR – RACM. ET: Method 9 if required. Weekly checks done to verify compliance.
F001, F002	RACM	17-08		N	N	Y	N	N	Y	N	Y	N N	N	N	ET – Method 9 if required. Weekly checks done to verify compliance.
F001, F002	Less stringent than 31-05(A)(3)	17-11		N	N	N	N	N	N	N	N	N	N	N	See 3745-31-05(A)(3).
P001 – P005	PE/PM-10: lb/hr, TPY NOx: 2.11 lbs/hr, 9.26 TPY CO: lbs/hr, TPY VOC: lb/hr, TPY VE 10% as 6 min avg.		31-05(A)(3)	N	Y	Y	N	N	Y	N	Y	N	N	N	OR: Only natural gas is to be burned. ET: No testing necessary because limits are based on AP-42 and manufacturer emission factors.
P001 – P005	Less stringent than 31-05(A)(3)	17-07(A)(1)		N	N	N	N	N	N	N	N	N	N	N	See 3745-31-05(A)(3).
P001 – P005	0.062lb PE/mmBtu	17-11(B)(5)(b)		N	Y	Y	N	N	Y	N	Y	N	N	N	OR – combust only natural gas with M, R &Rp ET – compliance based upon calculations; calculation based upon combusting natural gas

P001 – P005	Exempt	18-06		Y	Y	N	N	N	Y	N	Y	N	N	N	These emissions units are exempt from the requirements of OAC rule 3745-18-06(G) via OAC rule 3745-18-06(A) [emissions units combust only natural gas] M, R &Rp for burning only natural gas
P001 – P005	Formaldehyde <2.7 ppmvd@15% O2 or reduce by 76% or more		40 CFR 63, Subpart ZZZZ	N	Y	Y	N	N	Y	N	Y	N	Y	N	
R001-R004	OC: lbs/hr and TPY		31-05(A)(3)	N	Y	Y	N	N	Y	N	Y	N	N	N	ET- Compliance based on record keeping.
R001-R004	No PCRM	21-07(G)(2)		N	N	Y	N	N	Y	N	Y	N	N	N	OR – Not necessary because restricted under Additional T&C. ET – Not necessary. No PCRM usage verified through record keeping.
R001-R004	Use of dry filters	17-11(C)		N	Y	Y	N	N	Y	N	Y	N	N	N	ET – Periodic and annual inspections done to verify compliance.

Ohio | Environmental Protection Agency

DRAFT

Division of Air Pollution Control
Title V Permit
for
BAIRD BROTHERS SAWMILL INC

Facility ID:	0250000989
Permit Number:	P0085674
Permit Type:	Renewal
Issued:	6/30/2011
Effective:	To be entered upon final issuance
Expiration:	To be entered upon final issuance

Ohio Environmental Protection Agency

Division of Air Pollution Control
Title V Permit
for
BAIRD BROTHERS SAWMILL INC

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Authorization

Facility ID: 0250000989
Facility Description: Sawmill
Application Number(s): A0016349, A0039889
Permit Number: P0085674
Permit Description: TV renewal of permit for sawmill, including wood-fired boiler, woodworking equipment, wood coating lines and RICE.
Permit Type: Renewal
Issue Date: 6/30/2011
Effective Date: To be entered upon final issuance
Expiration Date: To be entered upon final issuance
Superseded Permit Number: P0085673

This document constitutes issuance of an OAC Chapter 3745-77 Title V permit to:

BAIRD BROTHERS SAWMILL INC
7060 CRORY RD
CANFIELD, OH 44406

Ohio EPA District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Northeast District Office
2110 East Aurora Road
Twinsburg, OH 44087
(330)425-9171

The above named entity is hereby granted a Title V permit pursuant to Chapter 3745-77 of the Ohio Administrative Code. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. You will be sent a notice approximately 18 months prior to the expiration date regarding the renewal of this permit. If you do not receive a notice, please contact the Ohio EPA DAPC, Northeast District Office. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-08(E) and in accordance with the terms of this permit beyond the expiration date, if a timely renewal application is submitted. A renewal application will be considered timely if it is submitted no earlier than 18 months (540 days) and no later than 6 months (180 days) prior to the expiration date.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Scott J. Nally
Director

A. Standard Terms and Conditions

1. Federally Enforceable Standard Terms and Conditions

a) All Standard Terms and Conditions are federally enforceable, with the exception of those listed below which are enforceable under State law only:

(1) Standard Term and Condition A. 24., Reporting Requirements Related to Monitoring and Record Keeping Requirements of State-Only Enforceable Permit Terms and Conditions

(2) Standard Term and Condition A. 25., Records Retention Requirements for State-Only Enforceable Permit Terms and Conditions

(3) Standard Term and Condition A. 27., Scheduled Maintenance/Malfunction Reporting

(4) Standard Term and Condition A. 29., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations

(Authority for term: ORC 3704.036(A))

2. 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 (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit), the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:

(1) The date, place (as defined in the permit), and time of sampling or measurements.

(2) The date(s) analyses were performed.

(3) The company or entity that performed the analyses.

(4) The analytical techniques or methods used.

(5) The results of such analyses.

(6) The operating conditions existing at the time of sampling or measurement.

(Authority for term: OAC rule 3745-77-07(A)(3)(b)(i))

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 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.

(Authority for term: OAC rule 3745-77-07(A)(3)(b)(ii))

c) The permittee shall submit required reports in the following manner:

(1) All reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations caused by malfunctions shall be submitted in the following manner:

Any malfunction, as defined in OAC rule 3745-15-06(B)(1), shall be promptly reported to the Ohio EPA in accordance with OAC rule 3745-15-06. In addition, to fulfill the OAC rule 3745-77-07(A)(3)(c) deviation reporting requirements for malfunctions, written reports that identify each malfunction that occurred during each calendar quarter (including each malfunction reported only verbally in accordance with OAC rule 3745-15-06) shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year in accordance with Standard Term and Condition A.2.c)(2) below; and each report shall cover the previous calendar quarter. An exceedance of the visible emission limitations specified in OAC rule 3745-17-07(A)(1) that is caused by a malfunction is not a violation and does not need to be reported as a deviation if the owner or operator of the affected air contaminant source or air pollution control equipment complies with the requirements of OAC rule 3745-17-07(A)(3)(c).

In accordance with OAC rule 3745-15-06, a malfunction reportable under OAC rule 3745-15-06(B) is a deviation of the federally enforceable permit requirements. Even though verbal notifications and written reports are required for malfunctions pursuant to OAC rule 3745-15-06, the written reports required pursuant to this term must be submitted quarterly to satisfy the prompt reporting provision of OAC rule 3745-77-07(A)(3)(c).

In identifying each deviation caused by a malfunction, the permittee shall specify the emission limitation(s) (or control requirement(s)) for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. For a specific malfunction, if this information has been provided in a written report that was submitted in accordance with OAC rule 3745-15-06, the permittee may simply reference that written report to identify the deviation. Nevertheless, all malfunctions, including those reported only verbally in accordance with OAC rule 3745-15-06, must be reported in writing on a quarterly basis.

Any scheduled maintenance, as referenced in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described above for malfunctions.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

(2) Except as may otherwise be provided in the terms and conditions for a specific emissions unit (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit or, in some cases, in section B. Facility-Wide Terms and Conditions of this Title V permit), all reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations of the emission limitations, operational restrictions, and control device operating parameter limitations shall be submitted in the following manner:

Written reports of (a) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. Except as provided below, the written reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

In identifying each deviation, the permittee shall specify the emission limitation(s), operational restriction(s), and/or control device operating parameter limitation(s) for which the deviation occurred, describe each deviation, and provide the estimated magnitude and duration of each deviation.

These written deviation reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations. Full compliance with OAC rule 3745-77-07(A)(3)(c) requires reporting of all other deviations of the federally enforceable requirements specified in the permit as required by such rule.

If an emissions unit has a deviation reporting requirement for a specific emission limitation, operational restriction, or control device operating parameter limitation that is not on a quarterly basis (e.g., within 30 days following the end of the calendar month, or within 30 or 45 days after the exceedance occurs), that deviation reporting requirement satisfies the reporting requirements specified in this Standard Term and Condition for that specific emission limitation, operational restriction, or control device parameter limitation. Following the provisions of that non-quarterly deviation reporting requirement will also satisfy (for the deviations so reported) the requirements of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations, and additional quarterly deviation reports for that specific emission limitation, operational restriction, or control device parameter limitation are not required pursuant to this Standard Term and Condition.

See A.29 below if no deviations occurred during the quarter.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

(3) All reporting required in accordance with the OAC rule 3745-77-07(A)(3)(c) for other deviations of the federally enforceable permit requirements which are not reported in accordance with Standard Term and Condition A.2)c)(2) above shall be submitted in the following manner:

Unless otherwise specified by rule, written reports that identify deviations of the following federally enforceable requirements contained in this permit; Standard Terms and Conditions: A.3, A.4, A.5, A.7.e), A.8, A.13, A.15, A.19, A.20, A.21, and A.23 of this Title V permit, as well as any deviations from the requirements in section C. Emissions Unit Terms and Conditions of this Title V permit, and any monitoring, record keeping, and reporting requirements, which are not reported in accordance with Standard Term and Condition A.2.c)(2) above shall be submitted (i.e., postmarked) to the appropriate Ohio EPA District Office or local air agency by January 31 and July 31 of each year; and each report shall cover the previous six calendar months. Unless otherwise specified by rule,

all other deviations from federally enforceable requirements identified in this permit shall be submitted annually as part of the annual compliance certification, including deviations of federally enforceable requirements not specifically addressed by permit or rule for the insignificant activities or emissions levels (IEU) identified in section B. Facility-Wide Terms and Conditions of this Title V permit. Annual reporting of deviations is deemed adequate to meet the deviation reporting requirements for IEUs unless otherwise specified by permit or rule.

In identifying each deviation, the permittee shall specify the federally enforceable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation.

These semi-annual and annual written reports shall satisfy the reporting requirements of OAC rule 3745-77-07(A)(3)(c) for any deviations from the federally enforceable requirements contained in this permit that are not reported in accordance with Standard Term and Condition A.2.c)(2) above.

If no such deviations occurred during a six-month period, the permittee shall submit a semi-annual report which states that no such deviations occurred during that period.

(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) and (ii) and OAC rule 3745-77-07(A)(13)(b))

(4) 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 (including any written malfunction reports required by OAC rule 3745-15-06 that are referenced in the deviation reports) are true, accurate, and complete."

(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iv))

(5) Reports of any required monitoring and/or record keeping information shall be submitted to Ohio EPA DAPC, Northeast District Office.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

3. Scheduled Maintenance

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. Except as provided in OAC rule 3745-15-06(A)(3), any scheduled maintenance 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). Any scheduled maintenance, as defined in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described for malfunctions in Standard Term and Condition A.2.c)(1) above.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

4. Risk Management Plans

If applicable, the permittee shall 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"); and, pursuant to 40 C.F.R. 68.215(a), the permittee shall submit either of the following:

a) a compliance plan for meeting the requirements of 40 C.F.R. Part 68 by the date specified in 40 C.F.R. 68.10(a) and OAC 3745-104-05(A); or

b) as part of the compliance certification submitted under 40 C.F.R. 70.6(c)(5), a certification statement that the source is in compliance with all requirements of 40 C.F.R. Part 68 and OAC Chapter 3745-104, including the registration and submission of the risk management plan.

(Authority for term: OAC rule 3745-77-07(A)(4))

5. 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.

(Authority for term: OAC rule 3745-77-07(A)(5))

6. Severability Clause

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.

(Authority for term: OAC rule 3745-77-07(A)(6))

7. 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, in accordance with Standard Term and Condition A.11 below. 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.

(1) Except as otherwise indicated below, this Title V permit, or permit modification, is effective for five years from the original effective date specified in the permit. In the event that this facility becomes eligible for non-title V permits, this permit shall cease to be enforceable when:the permittee submits an approved facility-wide potential to emit analysis supporting a claim that the facility no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on the permanent shutdown and removal of one or more emissions units identified in this permit; orthe permittee no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on obtaining restrictions on the facility-wide potential(s) to emit that are federally enforceable or legally and practically enforceable ; ora combination of (1) and (2) above.

The permittee shall continue to comply with all applicable OAC Chapter 3745-31 requirements for all regulated air contaminent sources once this permit ceases to be enforceable. The permittee shall comply with any residual requirements, such as quarterly deviation reports, semi-annual deviation reports, and annual compliance certifications covering the period during which this Title V permit was enforceable. All records relating to this permit must be maintained in accordance with law.

(Authority for term: OAC rule 3745-77-01(W), OAC rule 3745-77-07(A)(3)(b)(ii), OAC rule 3745-77(A)(7))

8. 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.

(Authority for term: OAC rule 3745-77-07(A)(8))

9. Marketable Permit Programs

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.

(Authority for term: OAC rule 3745-77-07(A)(9))

10. Reasonably Anticipated Operating Scenarios

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which

the permittee is operating. The permit shield provided in these standard terms and conditions shall apply to all operating scenarios authorized in this permit.

(Authority for term: OAC rule 3745-77-07(A)(10))

11. Reopening for Cause

This Title V permit will be reopened prior to its expiration date under the following conditions:

a) Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.

b) This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.

c) The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.

d) The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

(Authority for term: OAC rules 3745-77-07(A)(12) and 3745-77-08(D))

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

(Authority for term: OAC rule 3745-77-07(B))

13. Compliance Requirements

a) Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V 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:

(1) 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.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 paragraph (E) of OAC rule 3745-77-03.Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.

(2) 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:

(1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.

(2) 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.

d) Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) and the Administrator of the U.S. EPA in the following manner and with the following content:

(1) Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted (i.e., postmarked) on or before April 30th of each year during the permit term.

(2) Compliance certifications shall include the following:

a. An identification of each term or condition of this permit that is the basis of the certification.

b. The permittee's current compliance status.

c. Whether compliance was continuous or intermittent.

d. The method(s) used for determining the compliance status of the source currently and over the required reporting period.

e. Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.

(3) Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

(Authority for term: OAC rules 3745-77-07(C)(1),(2),(4) and (5) and ORC section 3704.03(L))

14. Permit Shield

a) Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.

b) This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

(Authority for term: OAC rule 3745-77-07(F))

15. Operational Flexibility

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the appropriate Ohio EPA District Office or local air agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the appropriate District Office of the Ohio EPA or local air agency as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

(Authority for term: OAC rules 3745-77-07(H)(1) and (2))

16. Emergencies

The permittee shall have an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations if the conditions of OAC rule 3745-77-07(G)(3) are met. This emergency defense provision is in addition to any emergency or upset provision contained in any applicable requirement.

(Authority for term: OAC rule 3745-77-07(G))

17. Off-Permit Changes

The owner or operator of a Title V source may make any change in its operations or emissions at the source that is not specifically addressed or prohibited in the Title V permit, without obtaining an amendment or modification of the permit, provided that the following conditions are met:

a) The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition.

b) The permittee provides contemporaneous written notice of the change to the Director and the Administrator of the U.S. EPA, except that no such notice shall be required for changes that qualify as insignificant emissions levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change.

c) The change shall not qualify for the permit shield under OAC rule 3745-77-07(F).

d) The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.

e) The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

Paragraph (I) of rule 3745-77-07 of the Administrative Code applies only to modification or amendment of the permittee's Title V permit. The change made may require a permit-to-install under Chapter 3745-31 of the Administrative Code if the change constitutes a modification as defined in that Chapter. Nothing in paragraph (I) of rule 3745-77-07 of the Administrative Code shall affect any applicable obligation under Chapter 3745-31 of the Administrative Code.

(Authority for term: OAC rule 3745-77-07(I))

18. Compliance Method Requirements

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee, including but not limited to, any challenge to the Credible Evidence Rule (see 62 Fed. Reg. 8314, Feb. 24, 1997), in the context of any future proceeding.

(This term is provided for informational purposes only.)

19. Insignificant Activities or Emissions Levels

Each IEU that has one or more applicable requirements shall comply with those applicable requirements.

(Authority for term: OAC rule 3745-77-07(A)(1))

20. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

(Authority for term: OAC rule 3745-77-07(A)(1))

21. 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.

(Authority for term: OAC rule 3745-77-07(A)(1))

22. Permanent Shutdown of an Emissions Unit

The permittee may notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification from the responsible official that identifies the date on which the emissions unit was permanently shut down. Authorization to operate the affected emissions unit shall cease upon the date certified by the responsible official that the emissions unit was permanently shut down.

After the date on which an emissions unit is permanently shut down (i.e., that has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31 and therefore ceases to meet the definition of an "emissions unit" as defined in OAC rule 3745-77-01(O)), rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the date of the certification and submission to Ohio EPA, to meet any Title V permit requirements applicable to that emissions unit, except for any residual requirements, such as the quarterly deviation reports, semi-annual deviation reports and annual compliance certification covering the period during which the emissions unit last operated. All records relating to the shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law.

No emissions unit certified by the responsible official as being permanently shut down may resume operation without first applying for and obtaining a permit to install pursuant to OAC Chapter 3745-31.

(Authority for term: OAC rule 3745-77-01)

23. Title VI Provisions

If applicable, the permittee shall comply with the standards for recycling and reducing emissions of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:

a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices specified in 40 CFR 82.156.

b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment specified in 40 CFR 82.158.

c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

(Authority for term: OAC rule 3745-77-01(H)(11))

24. Reporting Requirements Related to Monitoring and Record Keeping RequirementsUnder State Law Only

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 (i) 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, (ii) the probable cause of such deviations, and (iii) 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. In identifying each deviation, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. 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 (i.e., postmarked) quarterly, 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.)Records Retention Requirements Under State Law Only

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.

25. 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.

(Authority for term: OAC rule 3745-77-07(C))

26. 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).

27. 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.

(Authority for term: OAC rule 3745-77-01(C))

28. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations

If no emission limitation (or control requirement), operational restriction and/or control device parameter limitation 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 (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

The permittee is not required to submit a quarterly report which states that no deviations occurred during that quarter for the following situations:

a) where an emissions unit has deviation reporting requirements for a specific emission limitation, operational restriction, or control device parameter limitation that override the deviation reporting requirements specified in Standard Term and Condition A.2.c)(2); or

b) where an uncontrolled emissions unit has no monitoring, record keeping, or reporting requirements and the emissions unit's applicable emission limitations are established at the potentials to emit; or

c) where the company's responsible official has certified that an emissions unit has been permanently shut down.

B. Facility-Wide Terms and Conditions

1. All the following facility-wide terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:

   a) None.

2. The following insignificant emissions units are located at this facility:

   B002 - Boiler 1;

   B003 - Boiler 2; and

   F003 - Roadways and parking areas.

   Each insignificant emissions unit at this facility must comply with all State and Federal regulations, as well as any emission limitations and/or control requirements contained within the identified permit to install for the emissions unit. Insignificant emissions units listed above that are not subject to specific permit to install requirements are subject to one or more applicable requirements contained in the federally-approved versions of OAC Chapters 3745-17, 3745-18, and/or 3745-21.

   [Authority for term: OAC rule 3745-77-07(A)(1)]

C. Emissions Unit Terms and Conditions

1. B001, WOOD FIRED BOILER

Operations, Property and/or Equipment Description:

16.4 mmBTU/hr WOOD-FIRED BOILER TO BURN DRY WOOD WASTE CONTROLLED BY A CORE SEPARATOR AND BAGHOUSE

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI P0107706)	Particulate emissions (PE) shall not exceed 0.10 lb/mmBtu of actual heat input and 7.18 tons per year. Sulfur dioxide (SO_2) emissions shall not exceed 0.41 lb/hr and 1.80 tons per year. Carbon monoxide (CO) emissions shall not exceed 9.84 lbs/hr and 43.10 tons per year. Nitrogen oxides (NO_x) emissions shall not exceed 8.04 lbs/hr and 35.20 tons per year. Organic compound (OC) emissions shall not exceed 0.64 lb/hr and 2.80 tons per year. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1) and OAC rule 3745-17-10(C)(1).
b.	OAC rule 3745-17-07(A)(1)	See b)(2)a.
c.	OAC rule 3745-17-10(C)(1)	The PE limitation established in this rule is less stringent than the limitation established pursuant to OAC rule 3745-31-05(A)(3).

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
d.	40 CFR Part 60, Subpart Dc (40 CFR 60.40c - 60.48c)	See d)(3) and e)(4)
e.	40 CFR Part 63, Subpart DDDDD	See b)(2)d.

(2) Additional Terms and Conditions

a. Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

The visible particulate emission limitation specified above shall not apply to the following operations, provided the operations are documented in an operations log kept at the facility:

i. the start-up of this emissions unit, until the exhaust gases have achieved a temperature of two hundred fifty degrees Fahrenheit at the inlet of the baghouse. "Start-up" means the commencement of firing of fuel from a cold non-fired condition;

ii. the shutdown of this emissions unit, after the temperature of the exhaust gases has dropped below two hundred fifty degrees Fahrenheit at the inlet of the baghouse;

iii. the malfunction of this emissions unit or associated equipment, if the permittee complies with the requirements of OAC rule 3745-15-06; and

iv. the commencement of increased wood waste/saw dust firing from a banked condition for a period not to exceed thirty (30) minutes. "Banked condition" means the condition where the fuel is burned on the grates at rates which are sufficient to maintain ignition only.

b. The hourly emission limitations for SO_2, CO, NOx, and OC are based upon the emissions unit's potentials to emit (PTE). Therefore, no monitoring, record keeping and reporting requirements are required to ensure ongoing compliance with these limits.

c. The emissions from this emissions unit shall be vented to the baghouse at all times the emissions unit is in operation.

d. On May 16, 2011, U.S. EPA decided to Stay the Boiler MACT (40 CFR Part 63, Subpart DDDDD). This delay of effectiveness will remain in place until the proceedings for judicial review are completed or U.S. EPA completes its reconsideration of the rules, whichever is earlier, and the Agency publishes a notice in the Federal Register announcing that the rules are in effect. Upon being effective, this emissions unit will be subject to 40 CFR Part 63, Subpart DDDDD.

c) Operational Restrictions

(1) The permittee shall burn only wood waste in this emissions unit and no bark containing materials shall be burnt in this emissions unit.

[Authority for term: PTI P0107706 and OAC rule 3745-77-07(A)(1)]

(2) The permittee shall maintain a pressure drop across the baghouse within the range of 2 to 6 inches of water while the emissions unit is in operation.

[Authority for term: PTI P0107706 and OAC rule 3745-77-07(A)(1)]

d) Monitoring and/or Recordkeeping Requirements

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

[Authority for term: PTI P0107706 and OAC rule 3745-77-07(C)(1)]

(2) The permittee shall maintain the following daily records related to the operation of this emissions unit:

a. the time the temperature of the exhaust gases reached two hundred fifty degrees Fahrenheit at the inlet of the baghouse for each start-up;

b. the time the temperature of the exhaust gases dropped below two hundred fifty degrees Fahrenheit at the inlet of the baghouse for each shut down;

c. the time and duration the emissions unit commenced burning from a banked condition;

d. the time and duration of any equipment malfunction which results in excessive plume opacity from this emissions unit; and

e. the total hours of operation.

[Authority for term: PTI P0107706 and OAC rule 3745-77-07(C)(1)]

(3) The permittee shall record and maintain records of the amount of each fuel combusted during each calendar month. These records shall be maintained by the permittee for a period of two years following the date of such record.

[Authority for term: PTI P0107706, 40 CFR Part 60, Subpart Dc and OAC rule 3745-77-07(C)(1)]

(4) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse when the controlled emissions unit(s) is/are in operation, including periods of startup and shutdown. The permittee shall record the pressure drop across the baghouse on a daily basis. The

monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee.

[Authority for term: PTI P0107706 and OAC rule 3745-77-07(C)(1)]

(5) Whenever the monitored value for the pressure drop deviates from the limit or range established in accordance with this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:

a. the date and time the deviation began;

b. the magnitude of the deviation at that time;

c. the date the investigation was conducted;

d. the name(s) of the personnel who conducted the investigation; and

e. the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified in this permit, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken:

a. a description of the corrective action;

b. the date corrective action was completed;

c. the date and time the deviation ended;

d. the total period of time (in minutes) during which there was a deviation;

e. the pressure drop readings immediately after the corrective action was implemented; and

f. the name(s) of the personnel who performed the work.

Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

This range or limit on the pressure drop across the baghouse is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the Ohio EPA Northeast District Office. The permittee may request revisions to the permitted limit or range for the pressure drop based upon information obtained during future testing that demonstrate compliance with the allowable particulate emission rate for the controlled emissions unit(s). In addition, approved revisions to the range or limit

will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.

[Authority for term: PTI P0107706 and OAC rule 3745-77-07(C)(1)]

(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 emissions incident; and

e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

[Authority for term: PTI P0107706 and OAC rule 3745-77-07(C)(1)]

e) Reporting Requirements

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

[Authority for term: PTI P0107706 and OAC rule 3745-77-07(C)(1)]

(2) The permittee shall submit quarterly deviation (excursion) reports that identify the following:

a. each period of time (start time and date, and end time and date) when the pressure drop across the baghouse was outside of the acceptable range;

b. any period of time (start time and date, and end time and date) when the emissions unit(s) was/were in operation and the process emissions were not vented to the baghouse;

c. each incident of deviation described in "a" (above) where a prompt investigation was not conducted;

d. each incident of deviation described in "a" where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and

e. eachincident of deviation described in "a" where proper records were not maintained for the investigation and/or the corrective action(s), as identified in the monitoring and record keeping requirements of this permit.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

[Authority for term: PTI P0107706, OAC rule 3745-15-03(B)(1)(a), 3745-15-03(C) and OAC rule 3745-77-07(C)(1)]

(3) The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective action(s) taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Ohio EPA Northeast District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[Authority for term: PTI P0107706 and OAC rule 3745-77-07(C)(1)]

(4) Pursuant to the NSPS (40 CFR Part 60, Subpart Dc), the permittee is required to report the following information at the appropriate times (if the information has not already been reported):

a. Construction date (no later than 30 days after such date);

b. Actual start-up date (within 15 days after such date);

c. Date of performance testing (if required, at least 30 days prior to testing);

d. Any physical or operational change which may increase the emission rate of any air pollutant to which a standard applies (no later than 60 days or as soon as practicable before the change is commenced);

e. The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility;

f. If applicable, a copy of any federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under §60.42c, or §60.43c;

g. The annual capacity factor at which the owner or operator anticipates operating the affected facility based on all fuels fired and based on each individual fuel fired; and,

h. Notification if an emerging technology will be used for controlling SO_2emissions. The Administrator will examine the description of the control device and will determine whether the technology qualifies as an emerging technology. In making this determination, the Administrator may require the owner or operator of the affected facility to submit additional information concerning the control device. The affected facility is subject to the provisions of §60.42c(a) or (b)(1), unless and until this determination is made by the Administrator.

Reports are to be sent to the Ohio EPA Northeast District Office, U.S. EPA and to:

Ohio Environmental Protection Agency
DAPC - Permit Management Unit
50 West Town Street, Suite 700
P.O. Box 1049
Columbus, Ohio 43216-1049

If the permittee chooses to submit these reports via the Ohio EPA's online eBusiness Center, then hard copies are not required to be sent to the Ohio EPA offices. A hard copy would still be required to be sent to the U.S. EPA.

[Authority for term: PTI P0107706, 40 CFR Part 60, Subpart Dc and OAC rule 3745-77-07(C)(1)]

f) Testing Requirements

(1) Compliance with the emissions limitations specified in b)(1) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

PE shall not exceed 0.10 lb/mmBtu of actual heat input.

Applicable Compliance Method:

Compliance shall be demonstrated based upon a particulate emission test performed in accordance with the methods and procedures specified in f)(2).

[Authority for term:PTI 02-15333, OAC rule 3745-15-04(A) and OAC rule 3745-77-07(C)(1)]

b. Emission Limitation:

PE shall not exceed 7.18 tons per year.

Applicable Compliance Method:

The tpy emission limitation was developed by multiplying the short-term allowable particulate emission limitation (0.10 lb/mmBtu) by the boiler rated

maximum input capacity (16.4 mmBtu/hr) and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

[Authority for term:PTI P0107706 and OAC rule 3745-77-07(C)(1)]

c. Emission Limitation:

SO_2 emissions shall not exceed 0.41 lb/hr.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the following equation:

E = (0.025 lb SO_2/mmBtu) x (16.4 mmBtu/hr)

where;

E = SO_2 emission rate, in lb/hr;

0.025 lb SO_2/mmBtu = SO_2 emission factor obtained from AP-42, Section 1.6, Wood Residue Combustion in Boilers, Table 1.6-2, dated 09/03; and

16.4 mmBtu/hr = boiler rated maximum input capacity.

If required, compliance shall be demonstrated based upon a SO_2 emission test performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and Method 6 or 6C.

[Authority for term:PTI P0107706 and OAC rule 3745-77-07(C)(1)]

d. Emission Limitation:

SO_2 emissions shall not exceed 1.80 tons per year.

Applicable Compliance Method:

The tpy emission limitation was developed by multiplying the short-term allowable SO_2 emission limitation (0.41 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

[Authority for term:PTI P0107706 and OAC rule 3745-77-07(C)(1)]

e. Emission Limitation:

CO emissions shall not exceed 9.84 lbs/hr.

Applicable Compliance Method:

Compliance shall be demonstrated based upon a CO emission test performed in accordance with the methods and procedures specified in f)(2).

[Authority for term:PTI P0107706 and OAC rule 3745-77-07(C)(1)]

f. Emission Limitation:

CO emissions shall not exceed 43.10 tons per year.

Applicable Compliance Method:

The tpy emission limitation was developed by multiplying the short-term allowable CO emission limitation (9.84 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

[Authority for term:PTI P0107706 and OAC rule 3745-77-07(C)(1)]

g. Emission Limitation:

NO_x emissions shall not exceed 8.04 lbs/hr.

Applicable Compliance Method:

Compliance shall be demonstrated based upon a NO_x emission test performed in accordance with the methods and procedures specified in f)(2).

[Authority for term:PTI P0107706 and OAC rule 3745-77-07(C)(1)]

h. Emission Limitation:

NO_x emissions shall not exceed 35.20 tons per year.

Applicable Compliance Method:

The tpy emission limitation was developed by multiplying the short-term allowable NO_x emission limitation (8.04 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

[Authority for term:PTI P0107706 and OAC rule 3745-77-07(C)(1)]

i. Emission Limitation:

OC emissions shall not exceed 0.64 lb/hr.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the following equation:

E = (0.039 lb OC/mmBtu) (16.4 mmBtu/hr)

where;

E = OC emission rate, in lb/hr;

0.039 lb OC/mmBtu = OC emission factor obtained from AP-42, Section 1.6, Wood Residue Combustion in Boilers, Table1.6-3, dated 09/03; and

16.4 mmBtu/hr = boiler rated maximum input capacity.

If required, compliance shall be demonstrated based upon an OC emission test performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and Method 18, 25, or 25A, as appropriate.

[Authority for term:PTI P0107706 and OAC rule 3745-77-07(C)(1)]

j. Emission Limitation:

OC emissions shall not exceed 2.80 tons per year.

Applicable Compliance Method:

The tpy emission limitation was developed by multiplying the short-term allowable OC emission limitation (0.64 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

[Authority for term:PTI P0107706 and OAC rule 3745-77-07(C)(1)]

k. Emission Limitation:

Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9.

[Authority for term: PTI P0107706, OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(1)(a)]

(2) 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 6 months after issuance of the permit and within 6 months prior to the expiration of the permit.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for PE, CO and NO_x.

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

for PE: 40 CFR Part 60, Appendix A, Methods 1 through 5;

for CO: 40 CFR Part 60, Appendix A, Methods 1 through 5 and Method 10; and

forNO_x: 40 CFR Part 60, Appendix A, Methods 1 through 5 and Method 7 or 7E.

Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA Northeast District Office.

d. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA Northeast District Office.

e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northeast District Office. 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 Ohio EPA Northeast District Office's refusal to accept the results of the emission test(s).

f. Personnel from the Ohio EPA Northeast District Office 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.

g. 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 Ohio EPA Northeast District Office 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 Ohio EPA Northeast District Office.

[Authority for term: OAC rule 3745-77-07(C)(1)]

g) Miscellaneous Requirements

(1) None.

2. F001, WOODWORKING AREA 1 AND SAW DUST SILO WITH 2 BAGHOUSES

Operations, Property and/or Equipment Description:

SAWDUST HANDLING SYSTEM TO SEPARATE SAWDUST FROM THE AIR

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI 02-13601)	Particulate emissions (PE) shall not exceed 0.01 grain per dry standard cubic foot of exhaust gases, 6.15 pounds per hour and 26.89 tons per year from the baghouses (total emissions). The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-07(B) and 3745-17-08(B).
b.	OAC rule 3745-17-07(A)	Visible PE from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
c.	OAC rule 3745-17-07(B)	Visible fugitive PE shall not exceed 20% opacity as a 3-minute average.
d.	OAC rule 3745-17-08	See b)(2)a.
e.	OAC rule 3745-17-11	See b)(2)b.

(2) Additional Terms and Conditions

a. The permittee shall minimize or eliminate visible fugitive particulate emissions through the employment of reasonably available control measures (RACM). These measures shall include, but not be limited to, the installation and use of hoods, fans, and other equipment to adequately enclose, contain, capture, and vent the fugitive dust to the baghouse systems. The collection efficiency shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design.

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

c. This emissions unit consists of the following equipment:

EQUIPMENT DESCRIPTION	CONTROL DEVICE EMPLOYED
sanders, planers and misc. woodworking equipment	Moldow # 1 fabric filter
sawdust silo and woodworking equipment	Pneumafil fabric filter

All of the above-mentioned equipment shall be vented to the baghouses.

c) Operational Restrictions

(1) The pressure drop across each baghouse shall be maintained within the range of 2 to 4 inches of water while the emissions unit is in operation.

[Authority for term: PTI 02-13601 and OAC rule 3745-77-07(A)(1)]

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouses when the controlled emissions unit(s) is/are in operation, including periods of startup and shutdown. The permittee shall record the pressure drop across the baghouses on a daily basis. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee.

[Authority for term: PTI 02-13601 and OAC rule 3745-77-07(C)(1)]

(2) Whenever the monitored value for the pressure drop deviates from the limit or range established in accordance with this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:

a. the date and time the deviation began;

b. the magnitude of the deviation at that time;

c. the date the investigation was conducted;

d. the name(s) of the personnel who conducted the investigation; and

e. the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified in this permit, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken:

a. a description of the corrective action;

b. the date corrective action was completed;

c. the date and time the deviation ended;

d. the total period of time (in minutes) during which there was a deviation;

e. the pressure drop readings immediately after the corrective action was implemented; and

f. the name(s) of the personnel who performed the work.

Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

This range or limit on the pressure drop across the baghouse is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the Ohio EPA Northeast District Office. The permittee may request revisions to the permitted limit or range for the pressure drop based upon information obtained during future testing that demonstrate compliance with the allowable particulate emission rate for the controlled emissions unit(s). In addition, approved revisions to the range or limit will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.

[Authority for term: PTI 02-13601 and OAC rule 3745-77-07(C)(1)]

(3) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stacks and for any visible emissions of fugitive dust from the egress points (i.e., building windows, doors, roof monitors, etc.) 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 location and 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 emissions incident; and

e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

[Authority for term: PTI 02-13601 and OAC rule 3745-77-07(C)(1)]

e) Reporting Requirements

(1) The permittee shall submit quarterly deviation (excursion) reports that identify the following:

a. each period of time (start time and date, and end time and date) when the pressure drop across the baghouse was outside of the acceptable range;

b. any period of time (start time and date, and end time and date) when the emissions unit(s) was/were in operation and the process emissions were not vented to the baghouse;

c. each incident of deviation described in “a” (above) where a prompt investigation was not conducted;

d. each incident of deviation described in “a” where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and

e. each incident of deviation described in “a” where proper records were not maintained for the investigation and/or the corrective action(s), as identified in the monitoring and record keeping requirements of this permit.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

[Authority for term: PTI 02-13601, OAC rule 3745-15-03(B)(1)(a), 3745-15-03(C) and OAC rule 3745-77-07(C)(1)]

(2) The permittee shall submit semiannual written reports that identify:

a. all days during which any visible particulate emissions were observed from the stacks serving this emissions unit;

b. all days during which any visible emissions of fugitive dust were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit; and

c. any corrective actions taken to minimize or eliminate the visible particulate emissions from the stack and/or visible emissions of fugitive dust.

These reports shall be submitted to the Director (the Ohio EPA Northeast District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[Authority for term: PTI 02-13601 and OAC rule 3745-77-07(C)(1)]

f) Testing Requirements

(1) Compliance with the emission limitations specified in b)(1) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

PE shall not exceed 0.01 grain per dry standard cubic foot of exhaust gases and 6.15 pounds per hour from the baghouses (total emissions).

Applicable Compliance Method:

Compliance was demonstrated by the emission testing performed January 13 through January 14, 2004. If required, compliance with the PE limitation shall be demonstrated based upon an emission test performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5.

[Authority for term: PTI 02-13601, OAC rule 3745-15-04(A) and OAC rule 3745-77-07(C)(1)]

b. Emission Limitation:

PE shall not exceed 26.89 tons per year from the baghouses (total emissions).

Applicable Compliance Method:

The tpy emission limitation was developed by multiplying the short-term allowable PE limitation (6.15 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

[Authority for term: PTI 02-13601 and OAC rule 3745-77-07(C)(1)]

c. Emission Limitation:

Visible PE from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

Applicable Compliance Method:

If required, compliance with the stack visible PE limitation shall be demonstrated based upon visible PE observations performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9.

[Authority for term: PTI 02-13601, OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(1)(a)]

d. Emission Limitation:

Visible fugitive PE shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

If required, compliance with the visible PE limitation listed above shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

[Authority for term: PTI 02-13601, OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(3)]

g) Miscellaneous Requirements

(1) None.

3. F002, WOODWORKING AREA 2 WITH BAGHOUSE

Operations, Property and/or Equipment Description:

SAWDUST HANDLING SYSTEM TO SEPARATE SAWDUST FROM THE AIR

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI 02-13601)	Particulate emissions (PE) shall not exceed 0.01 grain per dry standard cubic foot of exhaust gases, 2.40 pounds per hour and 10.51 tons per year from the baghouse. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-07(B) and 3745-17-08(B).
b.	OAC rule 3745-17-07(A)	Visible PE from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
c.	OAC rule 3745-17-07(B)	Visible fugitive PE shall not exceed 20% opacity, as a 3-minute average.
d.	OAC rule 3745-17-08	See b)(2)a.
e.	OAC rule 3745-17-11	See b)(2)b.

(2) Additional Terms and Conditions

a. The permittee shall minimize or eliminate visible fugitive particulate emissions through the employment of reasonably available control measures (RACM). These measures shall include, but not be limited to, the installation and use of hoods, fans, and other equipment to adequately enclose, contain, capture, and vent the fugitive dust to the baghouse.

The collection efficiency shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design.

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

c. This emissions unit consists of the following equipment:

EQUIPMENT DESCRIPTION	CONTROL DEVICE EMPLOYED
Sanders, planers and misc. woodworking equipment	Moldow #2 fabric filter

All the above-mentioned equipment shall be vented to the baghouse.

c) Operational Restrictions

(1) The pressure drop across the baghouse shall be maintained within the range of 0 to 0.2 inch of water while the emissions unit is in operation.

[Authority for term: PTI 02-13601 and OAC rule 3745-77-07(A)(1)]

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse when the controlled emissions unit(s) is/are in operation, including periods of startup and shutdown. The permittee shall record the pressure drop across the baghouse on a daily basis. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee.

(2) Whenever the monitored value for the pressure drop deviates from the limit or range established in accordance with this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:

a. the date and time the deviation began;

b. the magnitude of the deviation at that time;

c. the date the investigation was conducted;

d. the name(s) of the personnel who conducted the investigation; and

e. the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified in this permit, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken:

f. a description of the corrective action;

g. the date corrective action was completed;

h. the date and time the deviation ended;

i. the total period of time (in minutes) during which there was a deviation;

j. the pressure drop readings immediately after the corrective action was implemented; and

k. the name(s) of the personnel who performed the work.

Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

This range or limit on the pressure drop across the baghouse is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the Ohio EPA Northeast District Office. The permittee may request revisions to the permitted limit or range for the pressure drop based upon information obtained during future testing that demonstrate compliance with the allowable particulate emission rate for the controlled emissions unit(s). In addition, approved revisions to the range or limit will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.

[Authority for term: PTI 02-13601 and OAC rule 3745-77-07(C)(1)]

(3) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack and for any visible emissions of fugitive dust from the egress points (i.e., building windows, doors, roof monitors, etc.) 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 location and 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 emissions incident; and

e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

[Authority for term: PTI 02-13601 and OAC rule 3745-77-07(C)(1)]

e) Reporting Requirements

(1) The permittee shall submit quarterly deviation (excursion) reports that identify the following:

a. each period of time (start time and date, and end time and date) when the pressure drop across the baghouse was outside of the acceptable range;

b. any period of time (start time and date, and end time and date) when the emissions unit(s) was/were in operation and the process emissions were not vented to the baghouse;

c. each incident of deviation described in “a” (above) where a prompt investigation was not conducted;

d. each incident of deviation described in “a” where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and

e. each incident of deviation described in “a” where proper records were not maintained for the investigation and/or the corrective action(s), as identified in the monitoring and record keeping requirements of this permit.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

[Authority for term: PTI 02-13601, OAC rule 3745-15-03(B)(1)(a), 3745-15-03(C) and OAC rule 3745-77-07(C)(1)]

(2) The permittee shall submit semiannual written reports that identify:

a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit;

b. all days during which any visible emissions of fugitive dust were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit; and

c. any corrective actions taken to minimize or eliminate the visible particulate emissions from the stack and/or visible emissions of fugitive dust.

These reports shall be submitted to the Director (the Ohio EPA Northeast District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[Authority for term: PTI 02-13601 and OAC rule 3745-77-07(C)(1)]

f) Testing Requirements

(1) Compliance with the emission limitations specified in b)(1) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

PE shall not exceed 0.01 grain per dry standard cubic foot of exhaust gases and 2.40 pounds per hour from the baghouse.

Applicable Compliance Method:

Compliance was demonstrated by the emission testing performed on January 14, 2004. If required, compliance with the PE limitation shall be demonstrated based upon an emission test performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5.

[Authority for term: PTI 02-13601, OAC rule 3745-15-04(A) and OAC rule 3745-77-07(C)(1)]

b. Emission Limitation:

PE shall not exceed 10.51 tons per year from the baghouse.

Applicable Compliance Method:

The tpy emission limitation was developed by multiplying the short-term allowable PE limitation (2.40 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

[Authority for term: PTI 02-13601 and OAC rule 3745-77-07(C)(1)]

c. Emission Limitation:

Visible PE from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

Applicable Compliance Method:

If required, compliance with the stack visible PE limitation shall be demonstrated based upon visible PE observations performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9.

[Authority for term: PTI 02-13601, OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(1)(a)]

d. Emission Limitation:

Visible fugitive PE shall not exceed 20% opacity, as a 3-minute average.

Applicable Compliance Method:

If required, compliance with the visible PE limitation listed above shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

[Authority for term: PTI 02-13601, OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(3)]

g) Miscellaneous Requirements

(1) None.

4. Emissions Unit Group -P001, P002: P001,P002,

EU ID	Operations, Property and/or Equipment Description
P001	7.6 mmBtu/hr Waukesha Model No. 3521GSI natural gas generator (engine No. 1 of 2) with catalytic converter.
P002	7.6 mmBtu/hr Waukesha Model No. 3521GSI natural gas generator (engine No. 2 of 2) with catalytic converter.

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI 02-22971)	Particulate emissions (PE)/PM less than 10 microns in diameter (PM-10) shall not exceed 0.08 lb/hr and 0.33 TPY. Nitrogen oxide (NO_x) emissions shall not exceed 2.11 lbs/hr and 9.26 TPY. Carbon monoxide (CO) emissions shall not exceed 3.81 lbs/hr and 16.67 TPY. Volatile organic compound (VOC) emissions shall not exceed 0.23 lb/hr and 0.99 TPY. Visible particulate emissions from any stack shall not exceed 10% opacity as a 6-minute average. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1) and OAC rule 3745-17-11(B)(5)(b).

b.	OAC rule 3745-17-07(A)(1)	The visible PE limitation specified in this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-17-11(B)(5)(b)	PE shall not exceed 0.062 lb/mmBtu of actual heat input.
d.	OAC rule 3745-18-06	This emissions unit is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(A).
e.	40 CFR Part 63, Subpart ZZZZ (40 CFR 63.6580 to 63.6675) In accordance with 40 CFR 63.6585, this emissions unit is a stationary internal combustion engine (ICE) subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines.	The existing, natural gas, stationary 4SRB spark ignition (SI) reciprocating internal combustion engine (RICE), located at an area source for hazardous air pollutants (HAPs), shall meet the requirements of 40 CFR Part 63, Subpart ZZZZ no later than October 19, 2013.
f.	40 CFR 63.6603(a) Table 2d #10 to 40 CFR Part 63, Subpart ZZZZ	Following the compliance date of 10/19/13, emissions of formaldehyde shall not exceed 2.7 ppmvd at 15% O_2 or emissions of formaldehyde shall be reduced by 76% or more.

(2) Additional Terms and Conditions

a. Following the compliance date of the NESHAP, the permittee shall control the emissions of formaldehyde from the stationary RICE exhaust using a non-selective catalytic reduction (NSCR) control device. The permittee shall either limit the concentration of formaldehyde to 2.7 ppmvd or less at 15% O_2 at the outlet of the control device or the average reduction of formaldehyde, calculated according to 40 CFR 63.6620(e), shall not be less than 76% of the uncontrolled formaldehyde emissions.

b. The permittee shall comply with the following applicable requirements identified in 40 CFR Part 63, Subpart ZZZZ:

Applicable Rule	Requirement
40 CFR 63.6595(a)(1)	The compliance date for 40 CFR Part 63, Subpart ZZZZ for existing SI RICE is 10/19/13.
Applicable Tables from 40 CFR Part 63, Subpart ZZZZ	Following the compliance date, comply with: emission limit options in Table 2d #10; operating limitations in Table 1b #1; performance test frequency in Table 3 #4; performance test methods in Table 4 #2 or #3; initial

	compliance demonstration in Table 5 #4 or #6; continuous compliance monitoring requirements in Table 6 #10; reporting requirements/frequency in Table 7; and the general provision from 40 CFR Part 63, Subpart A in Table 8.
40 CFR 63.6603(a)	Following the compliance date, maintain compliance with the emission limitation in Table 2d #10 (limit formaldehyde to 2.7 ppmvd at 15% O2 or reduce formaldehyde by 76%) and the operating limitations identified in Table 1b to 40 CFR Part 63, Subpart ZZZZ.
40 CFR 63.6603; 40 CFR 63.6612; 40 CFR 63.6620; and 40 CFR Part 63, Subpart ZZZZ Tables 4 & 5	Conduct an initial performance test within 180 days following the compliance date, or by 4/19/14, using the appropriate test methods in Table 4; while continuously monitoring the temperature at the inlet of the catalyst to the NSCR using a continuous parameter monitoring system (CPMS), as required in Table 5; and establish the operating parameter for the pressure drop across the catalyst.
40 CFR 63.6615; 40 CFR Part 63, Subpart ZZZZ Table 3 #4; and Table 6 #10	By the compliance date, install CPMS at the inlet of the catalyst to continuously monitor the temperature. Following the initial performance test must conduct subsequent performance tests every 8,760 hours of operation or every 3 years, whichever comes first, to demonstrate compliance with the formaldehyde emission standard, using the test methods in Table 4; and measure the pressure drop across the catalyst monthly.
40 CFR 63.6625(b); and 40 CFR 63.8(c), (d), & (e)	Develop and implement a site-specific monitoring plan for the continuous monitoring system (CMS), to include a quality control program and performance evaluation test plan for the CMS, in accordance with 40 CFR 63.8.
40 CFR 63.6665	Meet all of the general provisions of Subpart A, from Sections 63.1 through 63.15, that apply to the SI RICE, as identified in Table 8 to 40 CFR Part 63, Subpart ZZZZ.

c) Operational Restrictions

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

[Authority for term: PTI 02-22971 and OAC rule 3745-77-07(A)(1)]

(2) The permittee shall comply with the following applicable requirements identified in 40 CFR Part 63, Subpart ZZZZ:

Applicable Rule	Requirement
40 CFR 63.6605	General duty to minimize emissions, with good air pollution control practices for minimizing emissions; and compliance required at all times.
40 CFR 63.6625(h)	Minimize idle and startup time, not to exceed 30 minutes.
40 CFR 63.6603; 40 CFR 63.6640(a); and 40 CFR Part 63, Subpart ZZZZ Table 1b #1	Comply with operating limitations in Table 1b: Maintain the temperature of the stationary RICE exhaust so the catalyst inlet temperature is greater than or equal to 750 degrees Fahrenheit and less than or equal to 1,250 degrees Fahrenheit; and maintain the catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst measured during the initial performance test.
40 CFR 63.6625(k)	Conduct a calibration check on the temperature measurement device at least once every 3 months. The temperature sensor must meet the minimum tolerance and must be positioned as specified in 40 CFR 63.6625(k).

[Authority for term: 40 CFR Part 63, Subpart ZZZZ]

d) Monitoring and/or Recordkeeping Requirements

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

[Authority for term: PTI 02-22971 and OAC rule 3745-77-07(A)(1)]

(2) The permittee shall comply with the following applicable requirements identified in 40 CFR Part 63, Subpart ZZZZ:

Applicable Rule	Requirement
40 CFR 63.6625(b); 40 CFR 63.8; and 40 CFR Part 63, Subpart ZZZZ Table 6 #10	Following the compliance date, CPMS shall be installed to continuously monitor the catalyst inlet temperature to the NSCR. The CPMS must complete a minimum of one cycle of operation for each successive 15-minute period and the temperature readings shall be reduced to 4-hour rolling averages. The pressure drop across the catalyst must be monitored and recorded monthly. Develop site-specific monitoring plan for the CPMS.
40 CFR 63.6635	Except for monitor malfunctions, associated repairs, and required quality assurance activities, must continuously monitor that the RICE is operating. Must use all valid data (not recorded during malfunctions, repairs, or required quality assurance or control activities) in calculations used to report emissions or operating levels.
40 CFR 63.6640(a)	Demonstrate continuous compliance with the emission limitation and operating limitations identified in Tables 2d and 1b according to the methods specified in Table 6 to 40 CFR Part 63, Subpart ZZZZ.

40 CFR 63.6655(a)	Keep records of: 1. each notification and report submitted to comply with 40 CFR Part 63, Subpart ZZZZ; 2. The occurrence and duration of each malfunction of the RICE and any control or monitoring equipment; 3. corrective actions taken during each period of malfunction to minimize emissions and restore normal operations; 4. records of performance tests and performance evaluations of the CPMS; and 5. all required maintenance performed on air pollution control and monitoring equipment.
40 CFR 63.6655(b); 40 CFR 63.10(b); and 40 CFR 63.8(d)	Keep records for each CEMS or CPMS used to demonstrate compliance, including: the performance evaluation test plan; previous versions of the performance test plan; performance tests and evaluations; results of the quality control program; CMS calibration checks; maintenance performed on air pollution control and monitoring equipment; the occurrence, duration, and corrective actions taken during periods of malfunction; and all measurements needed to demonstrate compliance with the relevant standard.
40 CFR 63.6655(d)	Keep the records required in Table 6 to 40 CFR Part 63, Subpart ZZZZ to demonstrate continuous compliance.
40 CFR 63.6625(b)(6) and 40 CFR 63.10(c)	Maintain records of any malfunction, repairs, and corrective actions taken of/to the CPMS and any parameter monitoring exceedances, as identified by 40 CFR 63.10(c).
40 CFR 63.6625(h)	Maintain a record of each idle and/or startup time that exceeded 30 minutes.
40 CFR 63.6660	Records readily available and retained for at least 5 years after the date of occurrence or date of report according to 63.10(b)(1).

[Authority for term: 40 CFR Part 63, Subpart ZZZZ]

e) 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.

[Authority for term: PTI 02-22971 and OAC rule 3745-77-07(A)(1)]

(2) A comprehensive written report on the results of the performance tests, conducted to demonstrate compliance with 40 CFR 63.6603(a), shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Northeast District Office 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 Ohio EPA Northeast District Office.

[Authority for term: 40 CFR Part 63, Subpart ZZZZ and OAC rule 3745-15-04(A)]

(3) The permittee shall comply with the following applicable requirements identified in 40 CFR Part 63, Subpart ZZZZ:

Applicable Rule	Requirement
40 CFR 63.6640(b)	Submit a report of each instance in which the emission limitation or operating limitations in Tables 2d and 1b were not met; these deviations to be reported according to the requirements of 63.6650.
40 CFR 63.6640(e)	Submit a report of each instance in which the applicable requirements in Table 8 to 40 CFR Part 63, Subpart ZZZZ, the general provisions from 40 CFR Part 63, Subpart A, were not met.
40 CFR 63.6645(a)(2)	Submit all notifications required per 63.7(b) and (c); 63.8(e), (f)(4), and (f)(6); and 63.9(b) through (e), (g), and (h) that apply to the SI RICE.
40 CFR 63.6625(b); 40 CFR 63.7(c); and 40 CFR 63.8(d) & (e)(3)	Upon request, submit a performance evaluation test plan for each monitoring system and/or the site-specific test plan to the office requesting it.
40 CFR 63.6645(g); 40 CFR 63.7(b); 40 CFR 63.8(e); and 40 CFR 63.9(e) & (g)	Submit a Notification of Intent to conduct a performance test for the emissions unit or a performance evaluation of the CMS at least 60 days before the test is scheduled to begin.
40 CFR 63.6645(h); 40 CFR 63.6630(c); 40 CFR 63.8(e)(5); 40 CFR 63.9(h); 40 CFR 63.10(d)(2) & (e)(2); and OAC rule 3745-15-04(A)	Submit a Notification of Compliance Status for each compliance demonstration required in Tables 3 and 5 to 40 CFR Part 63, Subpart ZZZZ, including the performance test and CMS performance evaluation results, before the close of business on the 60th day following the completion of the test; or within 30 days of the initial compliance demonstration if the demonstration does not include a performance test. OAC rule 3745-15-04(A) requires performance test results to be submitted within 30 days of the test date unless additional time is requested.
40 CFR 63.6650(a)	Submit each applicable report in Table 7 of 40 CFR Part 63, Subpart ZZZZ.
40 CFR 63.6650(b)(1) to (5) and 40 CFR Part 63, Subpart ZZZZ Table 7 #1	Following the initial compliance date, submit Semiannual Compliance Reports to include the information identified in 63.6650(c) through (f), as applicable to the SI ICE. Following the initial compliance report, each subsequent report shall cover the reporting period from January 1st through June 30th and July 1st through December 31st. The Semiannual Compliance Reports must be postmarked or delivered no later than July 31st and January 31st.
40 CFR 63.6650(c)	63.6650(c) contains the required information to be submitted in each compliance report.
40 CFR 63.6650(d) & (e)	63.6650(d) contains the required information to be submitted for each deviation from an emission or operating limitation not monitored by a continuous monitoring system (CMS) and 63.6650(e) the information needed where using a CMS to comply with the emission or operating limitation.

[Authority for term: 40 CFR Part 63, Subpart ZZZZ]

f) Testing Requirements

(1) Compliance with the emission limitations specified in b)(1) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

PE/PM-10 shall not exceed 0.08 lb/hr and 0.33 TPY.

Applicable Compliance Method:

Compliance with the hourly emission limitation above shall be determined by multiplying 0.00991 lb/mmBtu (the emission factor from AP-42,"Stationary Internal Combustion Sources", Table 3.2-3, 7/00) by 7.6079 mmBtu/hr (the maximum input rating of this unit).

The annual emission limitation was developed by multiplying the hourly emission limitation (0.08 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.

[Authority for term:PTI 02-22971 and OAC rule 3745-77-07(C)(1)]

b. Emission Limitation:

NO_x emissions shall not exceed 2.11 lbs/hr and 9.26 TPY.

Applicable Compliance Method:

Compliance with the hourly emission limitation above shall be determined by dividing 1.0 g/BHP-hr (the manufacturer supplied emission factor, including the 90% control efficiency of the catalytic converter) by 454 g/lb, and then multiplying by 960 brake-horsepower (the maximum power output rating of this unit).

The annual emission limitation was developed by multiplying the hourly emission limitation (2.11 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.

[Authority for term:PTI 02-22971 and OAC rule 3745-77-07(C)(1)]

c. Emission Limitation:

CO emissions shall not exceed 3.81 lbs/hr and 16.67 TPY.

Applicable Compliance Method:

Compliance with the hourly emission limitation above shall be determined by dividing 1.8 g/BHP-hr (the manufacturer supplied emission factor, including the 85% control efficiency of the catalytic converter) by 454 g/lb, and then multiplying by 960 brake-horsepower (the maximum power output rating of this unit).

The annual emission limitation was developed by multiplying the hourly emission limitation (3.81 lbs/hr) by the maximum annual hours of operation (8,760 hours),

and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.

[Authority for term:PTI 02-22971 and OAC rule 3745-77-07(C)(1)]

d. Emission Limitation:

VOC emissions shall not exceed 0.23 lb/hr and 0.99 TPY.

Applicable Compliance Method:

Compliance with the hourly emission limitation above shall be determined by multiplying 0.0296 lb/mmBtu (the emission factor from AP-42,"Stationary Internal Combustion Sources", Table 3.2-3, 7/00) by 7.6079 mmBtu/hr (the maximum input rating of this unit).

The annual emission limitation was developed by multiplying the hourly emission limitation (0.23 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.

[Authority for term:PTI 02-22971 and OAC rule 3745-77-07(C)(1)]

e. Emission Limitation:

Visible particulate emissions from any stack shall not exceed 10% opacity as a 6-minute average.

Applicable Compliance Method:

If required, compliance with the visible particulate emission limitation shall be demonstrated based upon visible emission observations performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9.

[Authority for term:PTI 02-22971 and OAC rule 3745-77-07(C)(1)]

f. Emission Limitation:

PE shall not exceed 0.062 lb/mmBtu of actual heat input.

Applicable Compliance Method:

If required compliance shall be demonstrated in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and OAC rule 3745-17-03(B)(10).

[Authority for term:PTI 02-22971 and OAC rule 3745-77-07(C)(1)]

g. Emission Limitation:

Following the compliance date of 10/19/13, emissions of formaldehyde shall not exceed 2.7 ppmvd at 15% O_2 or emissions of formaldehyde shall be reduced by 76% or more.

Applicable Compliance Method:

Unless a performance test is submitted that meets the requirements of 40 CFR 63.6612(b), the permittee shall conduct an initial performance test within 180 days after the compliance date or no later than 04/19/14, to demonstrate compliance with the formaldehyde limitation in the NESHAP. The appropriate tests methods from Table 4 to 40 CFR Part 63, Subpart ZZZZ shall be conducted based on the option chosen for compliance, i.e., the part per million concentration or percent reduction. The appropriate emission and/or operating limitations, required per 40 CFR 63.6630 and identified in Table 5, shall be established and compliance demonstrated during each performance test.

The temperature at the inlet to the catalyst of the NSCR shall be monitored during the performance test and maintained between 750 °F and 1,250 °F. The CPMS, installed to measure the temperature at the inlet to the NSCR catalyst, shall complete one cycle of operation for each successive 15-minute period of operations, with a minimum of 4 successive cycles or operation for each valid hour of testing, and in accordance with 40 CFR 63.6625(b). The 3-hour block average temperature at the inlet to the catalyst shall be documented during performance tests and the pressure drop shall be recorded to establish the operating range for the pressure drop across the catalyst. Per 63.6640(b), if the catalyst is changed or the control device replaced, a new performance test must be conducted to demonstrate compliance with the emission limitation and to reestablish the values for, or compliance with, the operating parameters.

Each performance test shall consist of 3 separate test runs and each test run shall last a minimum of 1 hour and shall be conducted during normal operations. The engine percent load, during the performance test, shall be determined by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load; and the estimated percent load shall be included in the notification of compliance.

A compliant performance test shall demonstrate that either the formaldehyde emissions have been reduced by 76% or that the average formaldehyde concentration is less than or equal to 2.7 ppmvd, corrected to 15 percent O_2 on a dry basis, and from three 1-hour or longer performance test runs.

The following test methods shall be employed to demonstrate compliance with the emission limitation or control requirement for formaldehyde:

i. Method 1 or 1A of 40 CFR Part 60, Appendix A to select the sampling port location and the number of traverse points.

ii. Method 3, 3A, or 3B of 40 CFR Part 60, Appendix A or ASTM Method D6522-00 to measure O_2 at the inlet and outlet of the control device to normalize the formaldehyde concentration(s).

iii. Method 4 of 40 CFR Part 60, Appendix A; or Method 320 of 40 CFR Part 63, Appendix A; or ASTM D6348-03 to measure the moisture content at the inlet and outlet of the control device if demonstrating compliance through the percent control or to measure the moisture content of the stationary RICE exhaust.

iv. Method 320 or Method 323 of 40 CFR Part 63, Appendix A; or ASTM D 6348-03 to measure formaldehyde at the inlet and outlet of the control device if demonstrating compliance through the percent control or to measure formaldehyde at the exhaust of the stationary ICE.

v. The following equation shall be used to normalize the formaldehyde concentrations to a dry basis and to 15 percent oxygen (O_2)**:

$C_{adj} = C_d (5.9 / 20.9 - \% O_2)$

where:

C_{adj}= calculated formaldehyde concentration adjusted to 15 percent O_2;

C_d= measured concentration of formaldehyde, uncorrected;

5.9 = 20.9 percent O_2 − 15 percent O_2, the defined O_2 correction value, percent; and

$\%O_2$ = measured O_2 concentration, dry basis, percent.

** Optionally, the pollutant concentrations can be corrected to 15% O_2 using a CO_2 correction factor, by calculating the fuel factor (F_o value) using Method 19 results obtained during the performance test (40 CFR 63.6620(e)(2)).

vi. If compliance is demonstrated for the control efficiency for formaldehyde, the following equation shall be used to determine the percent reduction:

$R = (C_i - C_o) / C_i \times 100$

where:

C_i= concentration of formaldehyde at the control device inlet;

C_o= concentration of formaldehyde at the control device outlet; and

R = percent reduction of formaldehyde emissions.

The permittee shall conduct subsequent performance tests for formaldehyde (concentration or % reduction) every 8,760 hours of operation or every 3 years, whichever comes first.

The permittee shall notify the Director (the Ohio EPA Northeast District Office) in writing of each scheduled performance test date at least 60 calendar days before it is scheduled, to allow the agency time to review and approve the site-specific test plan and to arrange for an observer to be present during the compliance demonstration.

Personnel from the Ohio EPA Northeast District Office 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.

[Authority for term: 40 CFR Part 63, Subpart ZZZZ and OAC rule 3745-15-04(A)]

g) Miscellaneous Requirements

(1) None.

5. Emissions Unit Group -P003, P004: P003,P004,

EU ID	Operations, Property and/or Equipment Description
P003	15.2 mmBtu/hr Waukesha Model No. 7042GSI natural gas generator (engine No. 1 of 3) with catalytic converter.
P004	15.2 mmBtu/hr Waukesha Model No. 7042 GSI natural gas generator (engine No. 2 of 3) with catalytic converter.

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI 02-22971)	Particulate emissions (PE)/PM less than 10 microns in diameter (PM-10) shall not exceed 0.15 lb/hr and 0.66 TPY. Nitrogen oxide (NO_x) emissions shall not exceed 4.23 lbs/hr and 18.52 TPY. Carbon monoxide (CO) emissions shall not exceed 7.61 lbs/hr and 33.34 TPY. Volatile organic compound (VOC) emissions shall not exceed 0.45 lb/hr and 1.97 TPY. Visible particulate emissions from any stack shall not exceed 10% opacity as a 6-minute average. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1) and OAC rule 3745-17-11(B)(5)(b).
b.	OAC rule 3745-17-07(A)(1)	The visible PE limitation specified in this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-17-11(B)(5)(b)	PE shall not exceed 0.062 lb/mmBtu of

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		actual heat input.
d.	OAC rule 3745-18-06	This emissions unit is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(A).
e.	40 CFR Part 63, Subpart ZZZZ (40 CFR 63.6580 to 63.6675) In accordance with 40 CFR 63.6585, this emissions unit is a stationary internal combustion engine (ICE) subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines.	The existing, natural gas, stationary 4SRB spark ignition (SI) reciprocating internal combustion engine (RICE), located at an area source for hazardous air pollutants (HAPs), shall meet the requirements of 40 CFR Part 63, Subpart ZZZZ no later than October 19, 2013.
f.	40 CFR 63.6603(a) Table 2d #10 to 40 CFR Part 63, Subpart ZZZZ	Following the compliance date of 10/19/13, emissions of formaldehyde shall not exceed 2.7 ppmvd at 15% O_2 or emissions of formaldehyde shall be reduced by 76% or more.

(1) Additional Terms and Conditions

a. Following the compliance date of the NESHAP, the permittee shall control the emissions of formaldehyde from the stationary RICE exhaust using a non-selective catalytic reduction (NSCR) control device. The permittee shall either limit the concentration of formaldehyde to 2.7 ppmvd or less at 15% O_2 at the outlet of the control device or the average reduction of formaldehyde, calculated according to 40 CFR 63.6620(e), shall not be less than 76% of the uncontrolled formaldehyde emissions.

b. The permittee shall comply with the following applicable requirements identified in 40 CFR Part 63, Subpart ZZZZ:

Applicable Rule	Requirement
40 CFR 63.6595(a)(1)	The compliance date for 40 CFR Part 63, Subpart ZZZZ for existing SI RICE is 10/19/13.
Applicable Tables from 40 CFR Part 63, Subpart ZZZZ	Following the compliance date, comply with: emission limit options in Table 2d #10; operating limitations in Table 1b #1; performance test frequency in Table 3 #4; performance test methods in Table 4 #2 or #3; initial compliance demonstration in Table 5 #4 or #6; continuous compliance monitoring requirements in Table 6 #10; reporting requirements/frequency in Table 7; and the general provision from 40 CFR Part 63, Subpart A in Table 8.
40 CFR 63.6603(a)	Following the compliance date, maintain compliance with the emission limitation in Table 2d #10 (limit formaldehyde to 2.7 ppmvd at 15% O2 or reduce formaldehyde by 76%) and the operating limitations identified in Table 1b to 40 CFR Part 63, Subpart ZZZZ.
40 CFR 63.6603; 40 CFR 63.6612; 40 CFR 63.6620; and 40 CFR Part 63, Subpart ZZZZ Tables 4 & 5	Conduct an initial performance test within 180 days following the compliance date, or by 4/19/14, using the appropriate test methods in Table 4; while continuously monitoring the temperature at the inlet of the catalyst to the NSCR using a continuous parameter monitoring system (CPMS), as required in Table 5; and establish the operating parameter for the pressure drop across the catalyst.
40 CFR 63.6615; 40 CFR Part 63, Subpart ZZZZ Table 3 #4; and Table 6 #10	By the compliance date, install CPMS at the inlet of the catalyst to continuously monitor the temperature. Following the initial performance test must conduct subsequent performance tests every 8,760 hours of operation or every 3 years, whichever comes first, to demonstrate compliance with the formaldehyde emission standard, using the test methods in Table 4; and measure the pressure drop across the catalyst monthly.
40 CFR 63.6625(b); and 40 CFR 63.8(c), (d), & (e)	Develop and implement a site-specific monitoring plan for the continuous monitoring system (CMS), to include a quality control program and performance evaluation test plan for the CMS, in accordance with 40 CFR 63.8.
40 CFR 63.6665	Meet all of the general provisions of Subpart A, from Sections 63.1 through 63.15, that apply to the SI RICE, as identified in Table 8 to 40 CFR Part 63, Subpart ZZZZ.

c) Operational Restrictions

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

[Authority for term: PTI 02-22971 and OAC rule 3745-77-07(A)(1)]

(2) The permittee shall comply with the following applicable requirements identified in 40 CFR Part 63, Subpart ZZZZ:

Applicable Rule	Requirement
40 CFR 63.6605	General duty to minimize emissions, with good air pollution control practices for minimizing emissions; and compliance required at all times.
40 CFR 63.6625(h)	Minimize idle and startup time, not to exceed 30 minutes.
40 CFR 63.6603; 40 CFR 63.6640(a); and 40 CFR Part 63, Subpart ZZZZ Table 1b #1	Comply with operating limitations in Table 1b: Maintain the temperature of the stationary RICE exhaust so the catalyst inlet temperature is greater than or equal to 750 degrees Fahrenheit and less than or equal to 1,250 degrees Fahrenheit; and maintain the catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst measured during the initial performance test.
40 CFR 63.6625(k)	Conduct a calibration check on the temperature measurement device at least once every 3 months. The temperature sensor must meet the minimum tolerance and must be positioned as specified in 40 CFR 63.6625(k).

[Authority for term: 40 CFR Part 63, Subpart ZZZZ]

d) Monitoring and/or Recordkeeping Requirements

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

[Authority for term: PTI 02-22971 and OAC rule 3745-77-07(A)(1)]

(2) The permittee shall comply with the following applicable requirements identified in 40 CFR Part 63, Subpart ZZZZ:

Applicable Rule	Requirement
40 CFR 63.6625(b); 40 CFR 63.8; and 40 CFR Part 63, Subpart ZZZZ Table 6 #10	Following the compliance date, CPMS shall be installed to continuously monitor the catalyst inlet temperature to the NSCR. The CPMS must complete a minimum of one cycle of operation for each successive 15-minute period and the temperature readings shall be reduced to 4-hour rolling averages. The pressure drop across the catalyst must be monitored and recorded monthly. Develop site-specific monitoring plan for the CPMS.
40 CFR 63.6635	Except for monitor malfunctions, associated repairs, and required quality assurance activities, must continuously monitor that the RICE is operating. Must use all valid data (not recorded during malfunctions, repairs, or required quality assurance or control activities) in calculations used to report emissions or operating levels.
40 CFR 63.6640(a)	Demonstrate continuous compliance with the emission limitation and operating limitations identified in Tables 2d and 1b according to the methods specified in Table 6 to 40 CFR Part 63, Subpart ZZZZ.

40 CFR 63.6655(a)	Keep records of: 1. each notification and report submitted to comply with 40 CFR Part 63, Subpart ZZZZ; 2. The occurrence and duration of each malfunction of the RICE and any control or monitoring equipment; 3. corrective actions taken during each period of malfunction to minimize emissions and restore normal operations; 4. records of performance tests and performance evaluations of the CPMS; and 5. all required maintenance performed on air pollution control and monitoring equipment.
40 CFR 63.6655(b); 40 CFR 63.10(b); and 40 CFR 63.8(d)	Keep records for each CEMS or CPMS used to demonstrate compliance, including: the performance evaluation test plan; previous versions of the performance test plan; performance tests and evaluations; results of the quality control program; CMS calibration checks; maintenance performed on air pollution control and monitoring equipment; the occurrence, duration, and corrective actions taken during periods of malfunction; and all measurements needed to demonstrate compliance with the relevant standard.
40 CFR 63.6655(d)	Keep the records required in Table 6 to 40 CFR Part 63, Subpart ZZZZ to demonstrate continuous compliance.
40 CFR 63.6625(b)(6) and 40 CFR 63.10(c)	Maintain records of any malfunction, repairs, and corrective actions taken of/to the CPMS and any parameter monitoring exceedances, as identified by 40 CFR 63.10(c).
40 CFR 63.6625(h)	Maintain a record of each idle and/or startup time that exceeded 30 minutes.
40 CFR 63.6660	Records readily available and retained for at least 5 years after the date of occurrence or date of report according to 63.10(b)(1).

[Authority for term: 40 CFR Part 63, Subpart ZZZZ]

e) 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.

[Authority for term: PTI 02-22971 and OAC rule 3745-77-07(A)(1)]

(2) A comprehensive written report on the results of the performance tests, conducted to demonstrate compliance with 40 CFR 63.6603(a), shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Northeast District Office 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 Ohio EPA Northeast District Office.

[Authority for term: 40 CFR Part 63, Subpart ZZZZ and OAC rule 3745-15-04(A)]

(3) The permittee shall comply with the following applicable requirements identified in 40 CFR Part 63, Subpart ZZZZ:

Applicable Rule	Requirement
40 CFR 63.6640(b)	Submit a report of each instance in which the emission limitation or operating limitations in Tables 2d and 1b were not met; these deviations to be reported according to the requirements of 63.6650.
40 CFR 63.6640(e)	Submit a report of each instance in which the applicable requirements in Table 8 to 40 CFR Part 63, Subpart ZZZZ, the general provisions from 40 CFR Part 63, Subpart A, were not met.
40 CFR 63.6645(a)(2)	Submit all notifications required per 63.7(b) and (c); 63.8(e), (f)(4), and (f)(6); and 63.9(b) through (e), (g), and (h) that apply to the SI RICE.
40 CFR 63.6625(b); 40 CFR 63.7(c); and 40 CFR 63.8(d) & (e)(3)	Upon request, submit a performance evaluation test plan for each monitoring system and/or the site-specific test plan to the office requesting it.
40 CFR 63.6645(g); 40 CFR 63.7(b); 40 CFR 63.8(e); and 40 CFR 63.9(e) & (g)	Submit a Notification of Intent to conduct a performance test for the emissions unit or a performance evaluation of the CMS at least 60 days before the test is scheduled to begin.
40 CFR 63.6645(h); 40 CFR 63.6630(c); 40 CFR 63.8(e)(5); 40 CFR 63.9(h); 40 CFR 63.10(d)(2) & (e)(2); and OAC rule 3745-15-04(A)	Submit a Notification of Compliance Status for each compliance demonstration required in Tables 3 and 5 to 40 CFR Part 63, Subpart ZZZZ, including the performance test and CMS performance evaluation results, before the close of business on the 60th day following the completion of the test; or within 30 days of the initial compliance demonstration if the demonstration does not include a performance test. OAC rule 3745-15-04(A) requires performance test results to be submitted within 30 days of the test date unless additional time is requested.
40 CFR 63.6650(a)	Submit each applicable report in Table 7 of 40 CFR Part 63, Subpart ZZZZ.
40 CFR 63.6650(b)(1) to (5) and 40 CFR Part 63, Subpart ZZZZ Table 7 #1	Following the initial compliance date, submit Semiannual Compliance Reports to include the information identified in 63.6650(c) through (f), as applicable to the SI ICE. Following the initial compliance report, each subsequent report shall cover the reporting period from January 1st through June 30th and July 1st through December 31st. The Semiannual Compliance Reports must be postmarked or delivered no later than July 31st and January 31st.
40 CFR 63.6650(c)	63.6650(c) contains the required information to be submitted in each compliance report.
40 CFR 63.6650(d) & (e)	63.6650(d) contains the required information to be submitted for each deviation from an emission or operating limitation not monitored by a continuous monitoring system (CMS) and 63.6650(e) the information needed where using a CMS to comply with the emission or operating limitation.

[Authority for term: 40 CFR Part 63, Subpart ZZZZ]

f) Testing Requirements

(1) Compliance with the emission limitations specified in b)(1) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

PE/PM-10 shall not exceed 0.15 lb/hr and 0.66 TPY.

Applicable Compliance Method:

Compliance with the hourly emission limitation above shall be determined by multiplying 0.00991 lb/mmBtu (the emission factor from AP-42,"Stationary Internal Combustion Sources", Table 3.2-3, 7/00) by 15.2152 mmBtu/hr (the maximum input rating of this unit).

The annual emission limitation was developed by multiplying the hourly emission limitation (0.15 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.

[Authority for term:PTI 02-22971 and OAC rule 3745-77-07(C)(1)]

b. Emission Limitation:

NO_x emissions shall not exceed 4.23 lbs/hr and 18.52 TPY.

Applicable Compliance Method:

Compliance with the hourly emission limitation above shall be determined by dividing 1.0 g/BHP-hr (the manufacturer supplied emission factor, including the 90% control efficiency of the catalytic converter) by 454 g/lb, and then multiplying by 1920 brake-horsepower (the maximum power output rating of this unit).

The annual emission limitation was developed by multiplying the hourly emission limitation (4.23 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.

[Authority for term:PTI 02-22971 and OAC rule 3745-77-07(C)(1)]

c. Emission Limitation:

CO emissions shall not exceed 7.61 lbs/hr and 33.34 TPY.

Applicable Compliance Method:

Compliance with the hourly emission limitation above shall be determined by dividing 1.8 g/BHP-hr (the manufacturer supplied emission factor, including the 85% control efficiency of the catalytic converter) by 454 g/lb, and then multiplying by 1920 brake-horsepower (the maximum power output rating of this unit).

The annual emission limitation was developed by multiplying the hourly emission limitation (7.61 lbs/hr) by the maximum annual hours of operation (8,760 hours),

and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.

[Authority for term:PTI 02-22971 and OAC rule 3745-77-07(C)(1)]

d. Emission Limitation:

VOC emissions shall not exceed 0.45 lb/hr and 1.97 TPY.

Applicable Compliance Method:

Compliance with the hourly emission limitation above shall be determined by multiplying 0.0296 lb/mmBtu (the emission factor from AP-42,"Stationary Internal Combustion Sources", Table 3.2-3, 7/00) by 15.2152 mmBtu/hr (the maximum input rating of this unit).

The annual emission limitation was developed by multiplying the hourly emission limitation (0.45 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.

[Authority for term:PTI 02-22971 and OAC rule 3745-77-07(C)(1)]

e. Emission Limitation:

Visible particulate emissions from any stack shall not exceed 10% opacity as a 6-minute average.

Applicable Compliance Method:

If required, compliance with the visible particulate emission limitation shall be demonstrated based upon visible particulate emission observations performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9.

[Authority for term:PTI 02-22971 and OAC rule 3745-77-07(C)(1)]

f. Emission Limitation:

PE shall not exceed 0.062 lb/mmBtu of actual heat input.

Applicable Compliance Method:

If required compliance shall be demonstrated in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and OAC rule 3745-17-03(B)(10).

[Authority for term:PTI 02-22971 and OAC rule 3745-77-07(C)(1)]

g. Emission Limitation:

Following the compliance date of 10/19/13, emissions of formaldehyde shall not exceed 2.7 ppmvd at 15% O_2 or emissions of formaldehyde shall be reduced by 76% or more.

Applicable Compliance Method:

Unless a performance test is submitted that meets the requirements of 40 CFR 63.6612(b), the permittee shall conduct an initial performance test within 180 days after the compliance date or no later than 04/19/14, to demonstrate compliance with the formaldehyde limitation in the NESHAP. The appropriate tests methods from Table 4 to 40 CFR Part 63, Subpart ZZZZ shall be conducted based on the option chosen for compliance, i.e., the part per million concentration or percent reduction. The appropriate emission and/or operating limitations, required per 40 CFR 63.6630 and identified in Table 5, shall be established and compliance demonstrated during each performance test.

The temperature at the inlet to the catalyst of the NSCR shall be monitored during the performance test and maintained between 750 °F and 1,250 °F. The CPMS, installed to measure the temperature at the inlet to the NSCR catalyst, shall complete one cycle of operation for each successive 15-minute period of operations, with a minimum of 4 successive cycles or operation for each valid hour of testing, and in accordance with 40 CFR 63.6625(b). The 3-hour block average temperature at the inlet to the catalyst shall be documented during performance tests and the pressure drop shall be recorded to establish the operating range for the pressure drop across the catalyst. Per 63.6640(b), if the catalyst is changed or the control device replaced, a new performance test must be conducted to demonstrate compliance with the emission limitation and to reestablish the values for, or compliance with, the operating parameters.

Each performance test shall consist of 3 separate test runs and each test run shall last a minimum of 1 hour and shall be conducted during normal operations. The engine percent load, during the performance test, shall be determined by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load; and the estimated percent load shall be included in the notification of compliance.

A compliant performance test shall demonstrate that either the formaldehyde emissions have been reduced by 76% or that the average formaldehyde concentration is less than or equal to 2.7 ppmvd, corrected to 15 percent O_2 on a dry basis, and from three 1-hour or longer performance test runs.

The following test methods shall be employed to demonstrate compliance with the emission limitation or control requirement for formaldehyde:

i. Method 1 or 1A of 40 CFR Part 60, Appendix A to select the sampling port location and the number of traverse points.

ii. Method 3, 3A, or 3B of 40 CFR Part 60, Appendix A or ASTM Method D6522-00 to measure O_2 at the inlet and outlet of the control device to normalize the formaldehyde concentration(s).

iii. Method 4 of 40 CFR Part 60, Appendix A; or Method 320 of 40 CFR Part 63, Appendix A; or ASTM D6348-03 to measure the moisture content at the inlet and outlet of the control device if demonstrating compliance through the percent control or to measure the moisture content of the stationary RICE exhaust.

iv. Method 320 or Method 323 of 40 CFR Part 63, Appendix A; or ASTM D 6348-03 to measure formaldehyde at the inlet and outlet of the control device if demonstrating compliance through the percent control or to measure formaldehyde at the exhaust of the stationary ICE.

v. The following equation shall be used to normalize the formaldehyde concentrations to a dry basis and to 15 percent oxygen (O_2)**:

$C_{adj} = C_d (5.9 / 20.9 - \% O_2)$

where:

C_{adj}= calculated formaldehyde concentration adjusted to 15 percent O_2;

C_d= measured concentration of formaldehyde, uncorrected;

5.9 = 20.9 percent O_2 − 15 percent O_2, the defined O_2 correction value, percent; and

$\%O_2$ = measured O_2 concentration, dry basis, percent.

** Optionally, the pollutant concentrations can be corrected to 15% O_2 using a CO_2 correction factor, by calculating the fuel factor (F_o value) using Method 19 results obtained during the performance test (40 CFR 63.6620(e)(2)).

vi. If compliance is demonstrated for the control efficiency for formaldehyde, the following equation shall be used to determine the percent reduction:

$R = (C_i - C_o) / C_i \times 100$

where:

C_i= concentration of formaldehyde at the control device inlet;

C_o= concentration of formaldehyde at the control device outlet; and

R = percent reduction of formaldehyde emissions.

The permittee shall conduct subsequent performance tests for formaldehyde (concentration or % reduction) every 8,760 hours of operation or every 3 years, whichever comes first.

The permittee shall notify the Director (the Ohio EPA Northeast District Office) in writing of each scheduled performance test date at least 60 calendar days before it is scheduled, to allow the agency time to review and approve the site-specific test plan and to arrange for an observer to be present during the compliance demonstration.

Personnel from the Ohio EPA Northeast District Office 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.

[Authority for term: 40 CFR Part 63, Subpart ZZZZ and OAC rule 3745-15-04(A)]

g) Miscellaneous Requirements

(1) None.

6. P005, Waukesha 7042 No 3

Operations, Property and/or Equipment Description:

15.2 mmBtu/hr Waukesha Model No. 7042GSI natural gas generator (engine No. 3 of 3) with catalytic converter.

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI P0108239)	Nitrogen oxide (NO_x) emissions shall not exceed 4.23 lbs/hr and 18.52 TPY. Carbon monoxide (CO) emissions shall not exceed 7.61 lbs/hr and 33.34 TPY. See b)(2)a.
b.	OAC rule 3745-31-05(A)(3), as effective 11/30/2001	Volatile organic compound (VOC) emissions shall not exceed 0.0296 lb/mmBtu and 1.97 TPY. Sulfur dioxide (SO_2) emissions shall not exceed 0.000588 lb/mmBtu and 0.04 TPY. Particulate emissions (PE) shall not exceed 0.66 TPY. See b)(2)b.
c.	OAC rule 3745-31-05(A)(3), as effective 12/1/2006	See b)(2)c.
d.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
e.	OAC rule 3745-17-11(B)(5)(b)	PE shall not exceed 0.062 lb/mmBtu of actual heat input.
f.	OAC rule 3745-18-06	This emissions unit is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(A).
g.	40 CFR Part 63, Subpart ZZZZ (40 CFR 63.6580 to 63.6675) In accordance with 40 CFR 63.6585, this emissions unit is a stationary internal combustion engine (ICE) subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines.	The existing, natural gas, stationary 4SRB spark ignition (SI) reciprocating internal combustion engine (RICE), located at an area source for hazardous air pollutants (HAPs), shall meet the requirements of 40 CFR Part 63, Subpart ZZZZ no later than October 19, 2013.
h.	40 CFR 63.6603(a) Table 2d #10 to 40 CFR Part 63, Subpart ZZZZ	Following the compliance date of 10/19/13, emissions of formaldehyde shall not exceed 2.7 ppmvd at 15% O_2 or emissions of formaldehyde shall be reduced by 76% or more.

(2) Additional Terms and Conditions

a. In accordance with ORC 3704.03(T), this air contaminant source has the potential to emit, taking into account air pollution controls installed on the source, ten or more tons per year of NO_X and CO and as such shall meet the Best Available Technology (BAT) requirements of OAC rule 3745-31-05(A)(3) in effect as of January 1, 2006.

b. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to the Ohio Revised Code (ORC) changes effective August 3, 2006 (Senate Bill 265 changes), such that BAT is no longer required by State regulations for National Ambient Air Quality Standards (NAAQS) pollutant(s) less than ten tons per year. However, that rule revision has not yet been approved by 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 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA

approves the December 1, 2006 version of OAC rule 3745-31-05, then these emission limitations/control measures no longer apply.

c. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

The Best Available Technology (BAT) requirements under OAC rule 3745-31-05 (A)(3) do not apply to the uncontrolled VOC, SO_2 and particulate emissions from this air contaminant source, since the potential to emit for VOC, SO_2 and particulate emissions is less than ten tons per year.

d. Following the compliance date of the NESHAP, the permittee shall control the emissions of formaldehyde from the stationary RICE exhaust using a non-selective catalytic reduction (NSCR) control device. The permittee shall either limit the concentration of formaldehyde to 2.7 ppmvd or less at 15% O_2 at the outlet of the control device or the average reduction of formaldehyde, calculated according to 40 CFR 63.6620(e), shall not be less than 76% of the uncontrolled formaldehyde emissions.

e. The permittee shall comply with the following applicable requirements identified in 40 CFR Part 63, Subpart ZZZZ:

Applicable Rule	Requirement
40 CFR 63.6595(a)(1)	The compliance date for 40 CFR Part 63, Subpart ZZZZ for existing SI RICE is 10/19/13.
Applicable Tables from 40 CFR Part 63, Subpart ZZZZ	Following the compliance date, comply with: emission limit options in Table 2d #10; operating limitations in Table 1b #1; performance test frequency in Table 3 #4; performance test methods in Table 4 #2 or #3; initial compliance demonstration in Table 5 #4 or #6; continuous compliance monitoring requirements in Table 6 #10; reporting requirements/frequency in Table 7; and the general provision from 40 CFR Part 63, Subpart A in Table 8.
40 CFR 63.6603(a)	Following the compliance date, maintain compliance with the emission limitation in Table 2d #10 (limit formaldehyde to 2.7 ppmvd at 15% O2 or reduce formaldehyde by 76%) and the operating limitations identified in Table 1b to 40 CFR Part 63, Subpart ZZZZ.
40 CFR 63.6603; 40 CFR 63.6612; 40 CFR 63.6620; and 40 CFR Part 63, Subpart ZZZZ Tables 4 & 5	Conduct an initial performance test within 180 days following the compliance date, or by 4/19/14, using the appropriate test methods in Table 4; while continuously monitoring the temperature at the inlet of the catalyst to the NSCR using a continuous parameter monitoring system (CPMS), as required in Table 5; and establish the operating parameter for the pressure drop across the catalyst.
40 CFR 63.6615; 40 CFR Part 63, Subpart ZZZZ Table 3	By the compliance date, install CPMS at the inlet of the catalyst to continuously monitor the temperature. Following the initial performance test must conduct

#4; and Table 6 #10	subsequent performance tests every 8,760 hours of operation or every 3 years, whichever comes first, to demonstrate compliance with the formaldehyde emission standard, using the test methods in Table 4; and measure the pressure drop across the catalyst monthly.
40 CFR 63.6625(b); and 40 CFR 63.8(c), (d), & (e)	Develop and implement a site-specific monitoring plan for the continuous monitoring system (CMS), to include a quality control program and performance evaluation test plan for the CMS, in accordance with 40 CFR 63.8.
40 CFR 63.6665	Meet all of the general provisions of Subpart A, from Sections 63.1 through 63.15, that apply to the SI RICE, as identified in Table 8 to 40 CFR Part 63, Subpart ZZZZ.

c) Operational Restrictions

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

[Authority for term: PTI P0108239 and OAC rule 3745-77-07(A)(1)]

(2) The permittee shall comply with the following applicable requirements identified in 40 CFR Part 63, Subpart ZZZZ:

Applicable Rule	Requirement
40 CFR 63.6605	General duty to minimize emissions, with good air pollution control practices for minimizing emissions; and compliance required at all times.
40 CFR 63.6625(h)	Minimize idle and startup time, not to exceed 30 minutes.
40 CFR 63.6603; 40 CFR 63.6640(a); and 40 CFR Part 63, Subpart ZZZZ Table 1b #1	Comply with operating limitations in Table 1b: Maintain the temperature of the stationary RICE exhaust so the catalyst inlet temperature is greater than or equal to 750 degrees Fahrenheit and less than or equal to 1,250 degrees Fahrenheit; and maintain the catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst measured during the initial performance test.
40 CFR 63.6625(k)	Conduct a calibration check on the temperature measurement device at least once every 3 months. The temperature sensor must meet the minimum tolerance and must be positioned as specified in 40 CFR 63.6625(k).

[Authority for term: 40 CFR Part 63, Subpart ZZZZ]

d) Monitoring and/or Recordkeeping Requirements

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

[Authority for term: PTI P0108239 and OAC rule 3745-77-07(A)(1)]

(2) The permittee shall comply with the following applicable requirements identified in 40 CFR Part 63, Subpart ZZZZ:

Applicable Rule	Requirement
40 CFR 63.6625(b); 40 CFR 63.8; and 40 CFR Part 63, Subpart ZZZZ Table 6 #10	Following the compliance date, CPMS shall be installed to continuously monitor the catalyst inlet temperature to the NSCR. The CPMS must complete a minimum of one cycle of operation for each successive 15-minute period and the temperature readings shall be reduced to 4-hour rolling averages. The pressure drop across the catalyst must be monitored and recorded monthly. Develop site-specific monitoring plan for the CPMS.
40 CFR 63.6635	Except for monitor malfunctions, associated repairs, and required quality assurance activities, must continuously monitor that the RICE is operating. Must use all valid data (not recorded during malfunctions, repairs, or required quality assurance or control activities) in calculations used to report emissions or operating levels.
40 CFR 63.6640(a)	Demonstrate continuous compliance with the emission limitation and operating limitations identified in Tables 2d and 1b according to the methods specified in Table 6 to 40 CFR Part 63, Subpart ZZZZ.
40 CFR 63.6655(a)	Keep records of: 1. each notification and report submitted to comply with 40 CFR Part 63, Subpart ZZZZ; 2. The occurrence and duration of each malfunction of the RICE and any control or monitoring equipment; 3. corrective actions taken during each period of malfunction to minimize emissions and restore normal operations; 4. records of performance tests and performance evaluations of the CPMS; and 5. all required maintenance performed on air pollution control and monitoring equipment.
40 CFR 63.6655(b); 40 CFR 63.10(b); and 40 CFR 63.8(d)	Keep records for each CEMS or CPMS used to demonstrate compliance, including: the performance evaluation test plan; previous versions of the performance test plan; performance tests and evaluations; results of the quality control program; CMS calibration checks; maintenance performed on air pollution control and monitoring equipment; the occurrence, duration, and corrective actions taken during periods of malfunction; and all measurements needed to demonstrate compliance with the relevant standard.
40 CFR 63.6655(d)	Keep the records required in Table 6 to 40 CFR Part 63, Subpart ZZZZ to demonstrate continuous compliance.
40 CFR 63.6625(b)(6) and 40 CFR 63.10(c)	Maintain records of any malfunction, repairs, and corrective actions taken of/to the CPMS and any parameter monitoring exceedances, as identified by 40 CFR 63.10(c).
40 CFR 63.6625(h)	Maintain a record of each idle and/or startup time that exceeded 30 minutes.
40 CFR 63.6660	Records readily available and retained for at least 5 years after the date of occurrence or date of report according to 63.10(b)(1).

[Authority for term: 40 CFR Part 63, Subpart ZZZZ]

e) 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.

[Authority for term: PTI P0108239 and OAC rule 3745-77-07(A)(1)]

(2) A comprehensive written report on the results of the performance tests, conducted to demonstrate compliance with 40 CFR 63.6603(a), shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Northeast District Office 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 Ohio EPA Northeast District Office.

[Authority for term: 40 CFR Part 63, Subpart ZZZZ and OAC rule 3745-15-04(A)]

(3) The permittee shall comply with the following applicable requirements identified in 40 CFR Part 63, Subpart ZZZZ:

Applicable Rule	Requirement
40 CFR 63.6640(b)	Submit a report of each instance in which the emission limitation or operating limitations in Tables 2d and 1b were not met; these deviations to be reported according to the requirements of 63.6650.
40 CFR 63.6640(e)	Submit a report of each instance in which the applicable requirements in Table 8 to 40 CFR Part 63, Subpart ZZZZ, the general provisions from 40 CFR Part 63, Subpart A, were not met.
40 CFR 63.6645(a)(2)	Submit all notifications required per 63.7(b) and (c); 63.8(e), (f)(4), and (f)(6); and 63.9(b) through (e), (g), and (h) that apply to the SI RICE.
40 CFR 63.6625(b); 40 CFR 63.7(c); and 40 CFR 63.8(d) & (e)(3)	Upon request, submit a performance evaluation test plan for each monitoring system and/or the site-specific test plan to the office requesting it.
40 CFR 63.6645(g); 40 CFR 63.7(b); 40 CFR 63.8(e); and 40 CFR 63.9(e) & (g)	Submit a Notification of Intent to conduct a performance test for the emissions unit or a performance evaluation of the CMS at least 60 days before the test is scheduled to begin.
40 CFR 63.6645(h); 40 CFR 63.6630(c); 40 CFR 63.8(e)(5); 40 CFR 63.9(h); 40 CFR 63.10(d)(2) & (e)(2); and OAC rule 3745-15-04(A)	Submit a Notification of Compliance Status for each compliance demonstration required in Tables 3 and 5 to 40 CFR Part 63, Subpart ZZZZ, including the performance test and CMS performance evaluation results, before the close of business on the 60th day following the completion of the test; or within 30 days of the initial compliance demonstration if the demonstration does not include a performance test. OAC rule 3745-15-04(A) requires performance test results to be submitted within 30 days of the test date unless additional time is requested.
40 CFR 63.6650(a)	Submit each applicable report in Table 7 of 40 CFR Part 63, Subpart ZZZZ.
40 CFR 63.6650(b)(1)	Following the initial compliance date, submit Semiannual

to (5) and 40 CFR Part 63, Subpart ZZZZ Table 7 #1	Compliance Reports to include the information identified in 63.6650(c) through (f), as applicable to the SI ICE. Following the initial compliance report, each subsequent report shall cover the reporting period from January 1st through June 30th and July 1st through December 31st. The Semiannual Compliance Reports must be postmarked or delivered no later than July 31st and January 31st.
40 CFR 63.6650(c)	63.6650(c) contains the required information to be submitted in each compliance report.
40 CFR 63.6650(d) & (e)	63.6650(d) contains the required information to be submitted for each deviation from an emission or operating limitation not monitored by a continuous monitoring system (CMS) and 63.6650(e) the information needed where using a CMS to comply with the emission or operating limitation.

[Authority for term: 40 CFR Part 63, Subpart ZZZZ]

f) Testing Requirements

(1) Compliance with the emission limitations specified in b)(1) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

NO_x emissions shall not exceed 4.23 lbs/hr and 18.52 TPY.

Applicable Compliance Method:

Compliance with the hourly emission limitation above shall be determined by dividing 1.0 g/BHP-hr (the manufacturer supplied emission factor, including the 90% control efficiency of the catalytic converter) by 454 g/lb, and then multiplying by 1920 brake-horsepower (the maximum power output rating of this unit).

The annual emission limitation was developed by multiplying the hourly emission limitation (4.23 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.

[Authority for term:PTI P0108239 and OAC rule 3745-77-07(C)(1)]

b. Emission Limitation:

CO emissions shall not exceed 7.61 lbs/hr and 33.34 TPY.

Applicable Compliance Method:

Compliance with the hourly emission limitation above shall be determined by dividing 1.8 g/BHP-hr (the manufacturer supplied emission factor, including the 85% control efficiency of the catalytic converter) by 454 g/lb, and then multiplying by 1920 brake-horsepower (the maximum power output rating of this unit).

The annual emission limitation was developed by multiplying the hourly emission limitation (7.61 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.

[Authority for term:PTI P0108239 and OAC rule 3745-77-07(C)(1)]

c. Emission Limitation:

Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

Applicable Compliance Method:

If required, compliance with the visible particulate emission limitation shall be demonstrated based upon the visible emission observations performed in accordance with the procedures specified in 40 CFR Part 60, Appendix A, Method 9.

[Authority for term:PTI P0108239 and OAC rule 3745-77-07(C)(1)]

d. Emission Limitation:

PE shall not exceed 0.062 lb/mmBtu of actual heat input.

Applicable Compliance Method:

If required compliance shall be demonstrated in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and OAC rule 3745-17-03(B)(10).

[Authority for term:PTI P0108239 and OAC rule 3745-77-07(C)(1)]

e. Emission Limitation:

VOC emissions shall not exceed 0.0296 lb/mmBtu and 1.97 TPY.

Applicable Compliance Method:

Compliance shall be demonstrated based upon an emission factor of 0.0296 lb/mmBtu of heat input. This emission factor is specified in the U.S. EPA reference document AP-42, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-3 (7/00).

The annual emission limitation was developed by multiplying the hourly emission limitation (0.45 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.

The hourly emission rate specified above was determined by multiplying the emission factor specified in AP-42 (0.0296 lb/mmBtu) by the maximum heat input rating of this unit (15.2152 mmBtu/hr).

[Authority for term:PTI P0108239 and OAC rule 3745-77-07(C)(1)]

f. Emission Limitation:

SO_2 emissions shall not exceed 0.000588 lb/mmBtu and 0.04 TPY.

Applicable Compliance Method:

Compliance shall be demonstrated based upon an emission factor of 0.000588 lb/mmBtu of heat input. This emission factor is specified in the U.S. EPA reference document AP-42, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-3 (7/00).

The annual emission limitation was developed by multiplying the hourly emission limitation (0.01 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.

The hourly emission rate specified above was determined by multiplying the emission factor specified in AP-42 (0.000588 lb/mmBtu) by the maximum heat input rating of this unit (15.2152 mmBtu/hr).

[Authority for term: PTI P0108239 and OAC rule 3745-77-07(C)(1)]

g. Emission Limitation:

PE shall not exceed 0.66 TPY.

Applicable Compliance Method:

The annual emission limitation was developed by multiplying the hourly emission limitation (0.15 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.

The hourly emission rate specified above was determined by multiplying the emission factor specified in AP-42 (0.00991 lb/mmBtu) by the maximum heat input rating of this unit (15.2152 mmBtu/hr).

[Authority for term: PTI P0108239 and OAC rule 3745-77-07(C)(1)]

h. Emission Limitation:

Following the compliance date of 10/19/13, emissions of formaldehyde shall not exceed 2.7 ppmvd at 15% O_2 or emissions of formaldehyde shall be reduced by 76% or more.

Applicable Compliance Method:

Unless a performance test is submitted that meets the requirements of 40 CFR 63.6612(b), the permittee shall conduct an initial performance test within 180 days after the compliance date or no later than 04/19/14, to demonstrate compliance with the formaldehyde limitation in the NESHAP. The appropriate tests methods from Table 4 to 40 CFR Part 63, Subpart ZZZZ shall be conducted based on the option chosen for compliance, i.e., the part per million concentration or percent reduction. The appropriate emission and/or operating limitations, required per 40 CFR 63.6630 and identified in Table 5, shall be established and compliance demonstrated during each performance test.

The temperature at the inlet to the catalyst of the NSCR shall be monitored during the performance test and maintained between 750 °F and 1,250 °F. The CPMS, installed to measure the temperature at the inlet to the NSCR catalyst, shall complete one cycle of operation for each successive 15-minute period of operations, with a minimum of 4 successive cycles or operation for each valid hour of testing, and in accordance with 40 CFR 63.6625(b). The 3-hour block average temperature at the inlet to the catalyst shall be documented during performance tests and the pressure drop shall be recorded to establish the operating range for the pressure drop across the catalyst. Per 63.6640(b), if the catalyst is changed or the control device replaced, a new performance test must be conducted to demonstrate compliance with the emission limitation and to reestablish the values for, or compliance with, the operating parameters.

Each performance test shall consist of 3 separate test runs and each test run shall last a minimum of 1 hour and shall be conducted during normal operations. The engine percent load, during the performance test, shall be determined by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load; and the estimated percent load shall be included in the notification of compliance.

A compliant performance test shall demonstrate that either the formaldehyde emissions have been reduced by 76% or that the average formaldehyde concentration is less than or equal to 2.7 ppmvd, corrected to 15 percent O_2 on a dry basis, and from three 1-hour or longer performance test runs.

The following test methods shall be employed to demonstrate compliance with the emission limitation or control requirement for formaldehyde:

i. Method 1 or 1A of 40 CFR Part 60, Appendix A to select the sampling port location and the number of traverse points.

ii. Method 3, 3A, or 3B of 40 CFR Part 60, Appendix A or ASTM Method D6522-00 to measure O_2 at the inlet and outlet of the control device to normalize the formaldehyde concentration(s).

iii. Method 4 of 40 CFR Part 60, Appendix A; or Method 320 of 40 CFR Part 63, Appendix A; or ASTM D6348-03 to measure the moisture content at the inlet and outlet of the control device if demonstrating compliance through the percent control or to measure the moisture content of the stationary RICE exhaust.

iv. Method 320 or Method 323 of 40 CFR Part 63, Appendix A; or ASTM D 6348-03 to measure formaldehyde at the inlet and outlet of the control device if demonstrating compliance through the percent control or to measure formaldehyde at the exhaust of the stationary ICE.

v. The following equation shall be used to normalize the formaldehyde concentrations to a dry basis and to 15 percent oxygen (O_2)**:

$C_{adj} = C_d (5.9 / 20.9 - \% O_2)$

where:

C_{adj}= calculated formaldehyde concentration adjusted to 15 percent O_2;

C_d= measured concentration of formaldehyde, uncorrected;

5.9 = 20.9 percent O_2 − 15 percent O_2, the defined O_2 correction value, percent; and

$\%O_2$ = measured O_2 concentration, dry basis, percent.

** Optionally, the pollutant concentrations can be corrected to 15% O_2 using a CO_2 correction factor, by calculating the fuel factor (F_o value) using Method 19 results obtained during the performance test (40 CFR 63.6620(e)(2)).

vi. If compliance is demonstrated for the control efficiency for formaldehyde, the following equation shall be used to determine the percent reduction:

$R = (C_i - C_o) / C_i \times 100$

where:

C_i= concentration of formaldehyde at the control device inlet;

C_o= concentration of formaldehyde at the control device outlet; and

R = percent reduction of formaldehyde emissions.

The permittee shall conduct subsequent performance tests for formaldehyde (concentration or % reduction) every 8,760 hours of operation or every 3 years, whichever comes first.

The permittee shall notify the Director (the Ohio EPA Northeast District Office) in writing of each scheduled performance test date at least 60 calendar days before it is scheduled, to allow the agency time to review and approve the site-specific test plan and to arrange for an observer to be present during the compliance demonstration.

Personnel from the Ohio EPA Northeast District Office 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.

[Authority for term: 40 CFR Part 63, Subpart ZZZZ and OAC rule 3745-15-04(A)]

g) Miscellaneous Requirements

(1) None.

7. R001, UV SPRAY 1

Operations, Property and/or Equipment Description:

SEALER AND TOPCOAT SPRAYING WITH UV COATINGS

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) d)(3), d)(4), d)(5), d)(6) and e)(4).

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI 02-13601)	Organic compound (OC) emissions shall not exceed 14.64 pounds per hour and 14.26 tons per year. The requirements of this rule also include compliance with the requirements of OAC rules 3745-21-07(G)(2) and 3745-17-11(C).
b.	OAC rule 3745-21-07(G)(2)	See b)(2)a and b)(2)b.
c.	OAC rule 3745-17-11(C)	See b)(2)c, c)(1), c)(2) and d)(1) through d)(5).

(2) Additional Terms and Conditions

a. This emissions unit shall not employ any photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5), as coatings or cleanup materials.

b. On February 18, 2008, OAC rule 3745-21-07 was revised in its entirety; therefore, the 21-07 rule that was in effect prior to this date is no longer part of the State regulations. On April 4, 2008, the rule revision was submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP); however, until the U.S. EPA approves the revision to OAC rule 3745-21-07, the requirement to comply with the previous 21-07 rule provisions still exists as part of the federally-approved SIP for Ohio. The following terms and conditions shall become void after U.S. EPA approves the rule revision:

b)(2)a.

The emission limitations and control requirements from the amended 21-07 rule, and the associated operational restrictions and the monitoring, record keeping, and reporting requirements contained in this permit, shall become federally enforceable on the date the U.S. EPA approves the revised OAC rule 3745-21-07 as a revision to the Ohio State Implementation Plan. The following terms shall become federally enforceable after U.S. EPA approves the rule revision:

None

c. On February 1, 2008, OAC rule 3745-17-11 was revised to include paragraph (C), pertaining to control requirements for particulate emissions from surface coating processes. These control requirements and the associated operational restrictions, monitoring, record keeping, and reporting requirements contained in this permit shall become federally enforceable on the date the U.S. EPA approves paragraph (C) of OAC rule 3745-17-11 as a revision to the Ohio State Implementation Plan.

c) Operational Restrictions

(1) The permittee shall operate the dry filtration system for the control of particulate emissions whenever this emissions unit is in operation and shall maintain the dry particulate filter in accordance with the manufacturer's recommendations, instructions, and/or operating manual(s), with any modifications deemed necessary by the permittee.

[Authority for term: PTI 02-13601, OAC rule 3745-17-11(C)(1) and (2)(b) and OAC rule 3745-77-07(A)(1)]

(2) In the event the particulate filter system is not operating in accordance with the manufacturer's recommendations, instructions, or operating manual, with any modifications deemed necessary by the permittee, the control device shall be expeditiously repaired or otherwise returned to these documented operating conditions.

[Authority for term: PTI 02-13601, OAC rule 3745-17-11(C)(2)(e) and OAC rule 3745-77-07(A)(1)]

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain documentation of the manufacturer's recommendations, instructions, or operating manuals for the dry particulate filter, along with documentation of any modifications deemed necessary by the permittee. These documents shall be maintained at the facility and shall be made available to the Ohio EPA Northeast District Office upon request.

[Authority for term: OAC 3745-17-11(C)(2)(a) and OAC rule 3745-77-07(C)(1)]

(2) The permittee shall conduct periodic inspections of the dry particulate filter to determine whether it is operating in accordance with the manufacturer's recommendations, instructions, or operating manuals with any modifications deemed necessary by the permittee or operator. These inspections shall be performed at a frequency that shall be based upon the recommendation of the manufacturer and the permittee shall maintain a

copy of the manufacturer's recommended inspection frequency and it shall be made available to the Ohio EPA upon request.

[Authority for term: OAC rule 3745-17-11(C)(2)(c) and OAC rule 3745-77-07(C)(1)]

(3) In addition to the recommended periodic inspections, not less than once each calendar year the permittee shall conduct a comprehensive inspection of the dry particulate filter while the emissions unit is shut down and perform any needed maintenance and repair to ensure that it is operated in accordance with the manufacturer's recommendations.

[Authority for term: OAC rule 3745-17-11(C)(2)(c) and OAC rule 3745-77-07(C)(1)]

(4) The permittee shall document each inspection (periodic and annual) of the dry particulate filter system and shall maintain the following information:

a. the date of the inspection;
b. a description of each/any problem identified and the date it was corrected;
c. a description of any maintenance and repairs performed; and
d. the name of person who performed the inspection.

These records shall be maintained at the facility for not less than five years from the date the inspection and any necessary maintenance or repairs were completed and shall be made available to the Ohio EPA Northeast District Office upon request.

[Authority for term: OAC rule 3745-17-11(C)(2)(d) and (f), and OAC rule 3745-77-07(C)(1)]

(5) The permittee shall maintain records that document any time periods when the dry particulate filter was not in service when the emissions unit(s) was/were in operation, as well as, a record of all operations during which the dry particulate filter was not operated according to the manufacturer's recommendations with any documented modifications made by the permittee. These records shall be maintained for a period of not less than five years and shall be made available to the Ohio EPA upon request.

[Authority for term: PTI 02-13601, OAC rule 3745-17-11(C)(2)(e),(f), and (g), and OAC rule 3745-77-07(C)(1)]

(6) The permittee shall maintain monthly records of the following information:

a. the name and identification number of each coating and cleanup material employed and documentation as to whether or not each is a photochemically reactive material;

b. the amount of each coating and cleanup material used, in gallons;

c. the OC content of each coating and cleanup material, in pounds of OC per gallon;

d. the total OC emissions for all the coatings and cleanup materials employed, i.e., the summation of b x c for all coatings and cleanup materials employed, in pounds;

e. the total number of hours of operation; and

f. the average hourly OC emissions, i.e., d/e, in pounds per hour.

[Authority for term: PTI 02-13601 and OAC rule 3745-77-07(C)(1)]

(7) The permit-to-install (PTI) application for this/these emissions unit(s), R001, was evaluated based on the actual materials and the design parameters of the emissions unit's(s') exhaust system, as specified by the permittee. The "Toxic Air Contaminant Statute", ORC 3704.03(F), was applied to this/these emissions unit(s) for each toxic air contaminant listed in OAC rule 3745-114-01, using data from the permit application; and modeling was performed for each toxic air contaminant(s) emitted at over one ton per year using an air dispersion model such as SCREEN3, AERMOD, or ISCST3, or other Ohio EPA approved model. The predicted 1-hour maximum ground-level concentration result(s) from the approved air dispersion model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC), calculated as described in the Ohio EPA guidance document entitled "Review of New Sources of Air Toxic Emissions, Option A", as follows:

a. the exposure limit, expressed as a time-weighted average concentration for a conventional 8-hour workday and a 40-hour workweek, for each toxic compound(s) emitted from the emissions unit(s), (as determined from the raw materials processed and/or coatings or other materials applied) has been documented from one of the following sources and in the following order of preference (TLV was and shall be used, if the chemical is listed):

i. threshold limit value (TLV) from the American Conference of Governmental Industrial Hygienists' (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; or

ii. STEL (short term exposure limit) or the ceiling value from the American Conference of Governmental Industrial Hygienists' (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; the STEL or ceiling value is multiplied by 0.737 to convert the 15-minute exposure limit to an equivalent 8-hour TLV.

b. The TLV is divided by ten to adjust the standard from the working population to the general public (TLV/10).

c. This standard is/was then adjusted to account for the duration of the exposure or the operating hours of the emissions unit(s), i.e., "24" hours per day and "7" days per week, from that of 8 hours per day and 5 days per week. The resulting calculation was (and shall be) used to determine the Maximum Acceptable Ground-Level Concentration (MAGLC):

$$TLV/10 \times 8/X \times 5/Y = 4\ TLV/XY = MAGLC$$

d. The following summarizes the results of dispersion modeling for the significant toxic contaminants (emitted at 1 or more tons/year) or "worst case" toxic contaminant(s):

Toxic Contaminant: n-butyl acetate

TLV (mg/m3): 712.6

Maximum Hourly Emission Rate (lbs/hr): 3.66

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 2101

MAGLC (ug/m3): 17,000

The permittee, has demonstrated that emissions of n-butyl acetate (along with ethanol, isopropyl acetate, isobutyl acetate, toluene, xylene, methyl ethyl ketone, 2-butoxyethanol, and methanol), from emissions unit(s) R001, is calculated to be less than eighty per cent of the maximum acceptable ground level concentration (MAGLC); any new raw material or processing agent shall not be applied without evaluating each component toxic air contaminant in accordance with the "Toxic Air Contaminant Statute", ORC 3704.03(F).

[Authority for term: PTI 02-13601, ORC 3704.03(F)(3)(c) and F(4), OAC rule 3745-114-01, Option A, Engineering Guide #70, and OAC rule 3745-77-07(C)(1)]

(8) Prior to making any physical changes to or changes in the method of operation of the emissions unit(s), that could impact the parameters or values that were used in the predicted 1-hour maximum ground-level concentration, the permittee shall re-model the change(s) to demonstrate that the MAGLC has not been exceeded. Changes that can affect the parameters/values used in determining the 1-hour maximum ground-level concentration include, but are not limited to, the following:

a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a new toxic air contaminant with a lower Threshold Limit Value (TLV) than the lowest TLV previously modeled;

b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any toxic air contaminant listed in OAC rule 3745-114-01, that was modeled from the initial (or last) application; and

c. physical changes to the emissions unit(s) or its/their exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Toxic Air Contaminant Statute" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to a non-restrictive change to a parameter or process operation, where compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), has been documented. If the change(s) meet(s) the definition of a "modification", the permittee shall apply for and obtain a final PTI prior to the change. The Director may consider any significant departure from the operations of the

emissions unit, described in the permit application, as a modification that results in greater emissions than the emissions rate modeled to determine the ground level concentration; and he/she may require the permittee to submit a permit application for the increased emissions.

[Authority for term: PTI 02-13601, ORC 3704.03(F)(3)(c) and F(4), OAC rule 3745-114-01, Option A, Engineering Guide #70 and OAC rule 3745-77-07(C)(1)]

(9) The permittee shall collect, record, and retain the following information for each toxic evaluation conducted to determine compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F):

a. a description of the parameters/values used in each compliance demonstration and the parameters or values changed for any re-evaluation of the toxic(s) modeled (the composition of materials, new toxic contaminants emitted, change in stack/exhaust parameters, etc.);

b. the Maximum Acceptable Ground-Level Concentration (MAGLC) for each significant toxic contaminant or worst-case contaminant, calculated in accordance with the "Toxic Air Contaminant Statute", ORC 3704.03(F);

c. a copy of the computer model run(s), that established the predicted 1-hour maximum ground-level concentration that demonstrated the emissions unit(s) to be in compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), initially and for each change that requires re-evaluation of the toxic air contaminant emissions; and

d. the documentation of the initial evaluation of compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), and documentation of any determination that was conducted to re-evaluate compliance due to a change made to the emissions unit(s) or the materials applied.

[Authority for term: PTI 02-13601, ORC 3704.03(F)(3)(c) and F(4), OAC rule 3745-114-01, Option A, Engineering Guide #70, and OAC rule 3745-77-07(C)(1)]

(10) The permittee shall maintain a record of any change made to a parameter or value used in the dispersion model, used to demonstrate compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration. The record shall include the date and reason(s) for the change and if the change would increase the ground-level concentration.

[Authority for term: PTI 02-13601, ORC 3704.03(F)(3)(c) and F(4), OAC rule 3745-114-01, Option A, Engineering Guide #70, and OAC rule 3745-77-07(C)(1)]

e) Reporting Requirements

(1) The permittee shall submit quarterly deviation (excursion) reports that identify the following:

a. each exceedance of the hourly OC emission limitation;

[Authority for term: PTI 02-13601 and OAC rule 3745-77-07(C)(1)]

b. each day when a photochemically reactive material was employed;

[Authority for term: PTI 02-13601 and OAC rule 3745-77-07(C)(1)]

c. any daily record showing that the dry particulate filter system was not in service or not operated according to manufacturer's recommendations (with any documented modifications made by the permittee) when the emissions unit(s) was/were in operation; and

[Authority for term: OAC rule 3745-15-03(B)(1)(a), OAC rule 3745-15-03(C), and OAC rule 3745-77-07(C)(1)]

d. any changes made to a parameter or value used in the dispersion model, that was used to demonstrate compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration; or if no changes to the emissions, emissions unit(s), or the exhaust stack have been made, a statement to this effect.

[Authority for term: ORC 3704.03(F)(3)(c) and F(4), OAC rule 3745-114-01, Option A, Engineering Guide #70]

The permittee shall submit the quarterly deviation (excursion) reports in accordance with the General Terms and Conditions of this permit.

(2) The permittee shall also submit annual reports that specify the total OC emissions from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

[Authority for term: PTI 02-13601 and OAC rule 3745-77-07(C)(1)]

f) Testing Requirements

(1) Compliance with the emission limitations specified in b)(1) of these terms and conditions shall be determined in accordance with the following methods:

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

OC emissions shall not exceed 14.64 pounds per hour.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in d)(6). The OC content of each coating and cleanup material used shall be based upon formulation data or the procedures specified in 40 CFR Part 60, Appendix A, Method 24.

[Authority for term:PTI 02-13601 and OAC rule 3745-77-07(C)(1)]

b. Emission Limitation:

OC emissions shall not exceed 14.26 tons per year.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in d)(6) and shall be the sum of the monthly OC emissions divided by 2000 lbs/ton.

[Authority for term:PTI 02-13601 and OAC rule 3745-77-07(C)(1)]

g) Miscellaneous Requirements

(1) None.

8. R002, MOULDING SPRAY 1

Operations, Property and/or Equipment Description:

SPRAYING LINEAL MOULDINGS. COATING TYPES ARE WATER AND SOLVENT BASED STAINS AND PRIMERS.

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05 (A)(3) (PTI 02-13601)	Organic compound (OC) emissions shall not exceed 11.52 pounds per hour and 30.82 tons per year. The requirements of this rule also include compliance with the requirements of OAC rules 3745-21-07 (G)(2) and 3745-17-11(C).
b.	OAC rule 3745-21-07(G)(2)	See b)(2)a and b)(2)b.
c.	OAC rule 3745-17-11(C)	See b)(2)c, c)(1), c)(2) and d)(1) through d)(5).

(2) Additional Terms and Conditions

a. This emissions unit shall not employ any photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5), as coatings or cleanup materials.

b. On February 18, 2008, OAC rule 3745-21-07 was revised in its entirety; therefore, the 21-07 rule that was in effect prior to this date is no longer part of the State regulations. On April 4, 2008, the rule revision was submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP); however, until the U.S. EPA approves the revision to OAC rule 3745-21-07, the requirement to comply with the previous 21-07 rule provisions still exists as part of the federally-approved SIP for Ohio. The following terms and conditions shall become void after U.S. EPA approves the rule revision:

b)(2)a.

The emission limitations and control requirements from the amended 21-07 rule, and the associated operational restrictions and the monitoring, record keeping, and reporting requirements contained in this permit, shall become federally enforceable on the date the U.S. EPA approves the revised OAC rule 3745-21-07 as a revision to the Ohio State Implementation Plan. The following terms shall become federally enforceable after U.S. EPA approves the rule revision:

None

c. On February 1, 2008, OAC rule 3745-17-11 was revised to include paragraph (C), pertaining to control requirements for particulate emissions from surface coating processes. These control requirements and the associated operational restrictions, monitoring, record keeping, and reporting requirements contained in this permit shall become federally enforceable on the date the U.S. EPA approves paragraph (C) of OAC rule 3745-17-11 as a revision to the Ohio State Implementation Plan.

c) Operational Restrictions

(1) The permittee shall operate the dry filtration system for the control of particulate emissions whenever this emissions unit is in operation and shall maintain the dry particulate filter in accordance with the manufacturer's recommendations, instructions, and/or operating manual(s), with any modifications deemed necessary by the permittee.

[Authority for term: PTI 02-13601, OAC rule 3745-17-11(C)(1) and (2)(b) and OAC rule 3745-77-07(A)(1)]

(2) In the event the particulate filter system is not operating in accordance with the manufacturer's recommendations, instructions, or operating manual, with any modifications deemed necessary by the permittee, the control device shall be expeditiously repaired or otherwise returned to these documented operating conditions.

[Authority for term: PTI 02-13601, OAC rule 3745-17-11(C)(2)(e) and OAC rule 3745-77-07(A)(1)]

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain documentation of the manufacturer's recommendations, instructions, or operating manuals for the dry particulate filter, along with documentation of any modifications deemed necessary by the permittee. These documents shall be maintained at the facility and shall be made available to the Ohio EPA Northeast District Office upon request.

[Authority for term: OAC 3745-17-11(C)(2)(a) and OAC rule 3745-77-07(C)(1)]

(2) The permittee shall conduct periodic inspections of the dry particulate filter to determine whether it is operating in accordance with the manufacturer's recommendations, instructions, or operating manuals with any modifications deemed necessary by the permittee or operator. These inspections shall be performed at a frequency that shall be based upon the recommendation of the manufacturer and the permittee shall maintain a

copy of the manufacturer's recommended inspection frequency and it shall be made available to the Ohio EPA upon request.

[Authority for term: OAC rule 3745-17-11(C)(2)(c) and OAC rule 3745-77-07(C)(1)]

(3) In addition to the recommended periodic inspections, not less than once each calendar year the permittee shall conduct a comprehensive inspection of the dry particulate filter while the emissions unit is shut down and perform any needed maintenance and repair to ensure that it is operated in accordance with the manufacturer's recommendations.

[Authority for term: OAC rule 3745-17-11(C)(2)(c) and OAC rule 3745-77-07(C)(1)]

(4) The permittee shall document each inspection (periodic and annual) of the dry particulate filter system and shall maintain the following information:

a. the date of the inspection;
b. a description of each/any problem identified and the date it was corrected;
c. a description of any maintenance and repairs performed; and
d. the name of person who performed the inspection.

These records shall be maintained at the facility for not less than five years from the date the inspection and any necessary maintenance or repairs were completed and shall be made available to the Ohio EPA Northeast District Office upon request.

[Authority for term: OAC rule 3745-17-11(C)(2)(d) and (f), and OAC rule 3745-77-07(C)(1)]

(5) The permittee shall maintain records that document any time periods when the dry particulate filter was not in service when the emissions unit(s) was/were in operation, as well as, a record of all operations during which the dry particulate filter was not operated according to the manufacturer's recommendations with any documented modifications made by the permittee. These records shall be maintained for a period of not less than five years and shall be made available to the Ohio EPA upon request.

[Authority for term: PTI 02-13601, OAC rule 3745-17-11(C)(2)(e),(f), and (g), and OAC rule 3745-77-07(C)(1)]

(6) The permittee shall maintain monthly records of the following information:

a. the name and identification number of each coating and cleanup material employed and documentation as to whether or not each is a photochemically reactive material;

b. the amount of each coating and clean up material used, in gallons;

c. the OC content of each coating and cleanup material, in pounds of OC per gallon;

d. the total OC emissions for all the coatings and cleanup materials employed, i.e., the summation of b x c for all coatings and cleanup materials employed, in pounds;

e. the total number of hours of operation; and

f. the average hourly OC emissions, i.e., d/e, in pounds per hour.

[Authority for term: PTI 02-13601 and OAC rule 3745-77-07(C)(1)]

(7) The permit-to-install (PTI) application for this/these emissions unit(s), R002, was evaluated based on the actual materials and the design parameters of the emissions unit's(s') exhaust system, as specified by the permittee. The "Toxic Air Contaminant Statute", ORC 3704.03(F), was applied to this/these emissions unit(s) for each toxic air contaminant listed in OAC rule 3745-114-01, using data from the permit application; and modeling was performed for each toxic air contaminant(s) emitted at over one ton per year using an air dispersion model such as SCREEN3, AERMOD, or ISCST3, or other Ohio EPA approved model. The predicted 1-hour maximum ground-level concentration result(s) from the approved air dispersion model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC), calculated as described in the Ohio EPA guidance document entitled "Review of New Sources of Air Toxic Emissions, Option A", as follows:

a. the exposure limit, expressed as a time-weighted average concentration for a conventional 8-hour workday and a 40-hour workweek, for each toxic compound(s) emitted from the emissions unit(s), (as determined from the raw materials processed and/or coatings or other materials applied) has been documented from one of the following sources and in the following order of preference (TLV was and shall be used, if the chemical is listed):

i. threshold limit value (TLV) from the American Conference of Governmental Industrial Hygienists' (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; or

ii. STEL (short term exposure limit) or the ceiling value from the American Conference of Governmental Industrial Hygienists' (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; the STEL or ceiling value is multiplied by 0.737 to convert the 15-minute exposure limit to an equivalent 8-hour TLV.

b. The TLV is divided by ten to adjust the standard from the working population to the general public (TLV/10).

c. This standard is/was then adjusted to account for the duration of the exposure or the operating hours of the emissions unit(s), i.e., "24" hours per day and "7" days per week, from that of 8 hours per day and 5 days per week. The resulting calculation was (and shall be) used to determine the Maximum Acceptable Ground-Level Concentration (MAGLC):

$$TLV/10 \times 8/X \times 5/Y = 4\ TLV/XY = MAGLC$$

d. The following summarizes the results of dispersion modeling for the significant toxic contaminants (emitted at 1 or more tons/year) or "worst case" toxic contaminant(s):

Toxic Contaminant: isobutyl acetate

TLV (mg/m3): 712.6

Maximum Hourly Emission Rate (lbs/hr): 5.22

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 2101

MAGLC (ug/m3): 17,000

The permittee, has demonstrated that emissions of isobutyl acetate (along with ethanol, isopropyl acetate, n-butyl acetate, toluene, methyl isoamyl ketone, xylene, methyl ethyl ketone, 2-butoxyethanol, and methanol), from emissions unit(s) R002, is calculated to be less than eighty per cent of the maximum acceptable ground level concentration (MAGLC); any new raw material or processing agent shall not be applied without evaluating each component toxic air contaminant in accordance with the "Toxic Air Contaminant Statute", ORC 3704.03(F).

[Authority for term: PTI 02-13601, ORC 3704.03(F)(3)(c) and F(4), OAC rule 3745-114-01, Option A, Engineering Guide #70, and OAC rule 3745-77-07(C)(1)]

(8) Prior to making any physical changes to or changes in the method of operation of the emissions unit(s), that could impact the parameters or values that were used in the predicted 1-hour maximum ground-level concentration, the permittee shall re-model the change(s) to demonstrate that the MAGLC has not been exceeded. Changes that can affect the parameters/values used in determining the 1-hour maximum ground-level concentration include, but are not limited to, the following:

a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a new toxic air contaminant with a lower Threshold Limit Value (TLV) than the lowest TLV previously modeled;

b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any toxic air contaminant listed in OAC rule 3745-114-01, that was modeled from the initial (or last) application; and

c. physical changes to the emissions unit(s) or its/their exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Toxic Air Contaminant Statute" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to a non-restrictive change to a parameter or process operation, where compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), has been documented. If the change(s) meet(s) the definition of a "modification", the permittee shall apply for and obtain a final PTI prior to the change. The Director may consider any significant departure from the operations of the

emissions unit, described in the permit application, as a modification that results in greater emissions than the emissions rate modeled to determine the ground level concentration; and he/she may require the permittee to submit a permit application for the increased emissions.

[Authority for term: PTI 02-13601, ORC 3704.03(F)(3)(c) and F(4), OAC rule 3745-114-01, Option A, Engineering Guide #70 and OAC rule 3745-77-07(C)(1)]

(9) The permittee shall collect, record, and retain the following information for each toxic evaluation conducted to determine compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F):

a. a description of the parameters/values used in each compliance demonstration and the parameters or values changed for any re-evaluation of the toxic(s) modeled (the composition of materials, new toxic contaminants emitted, change in stack/exhaust parameters, etc.);

b. the Maximum Acceptable Ground-Level Concentration (MAGLC) for each significant toxic contaminant or worst-case contaminant, calculated in accordance with the "Toxic Air Contaminant Statute", ORC 3704.03(F);

c. a copy of the computer model run(s), that established the predicted 1-hour maximum ground-level concentration that demonstrated the emissions unit(s) to be in compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), initially and for each change that requires re-evaluation of the toxic air contaminant emissions; and

d. the documentation of the initial evaluation of compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), and documentation of any determination that was conducted to re-evaluate compliance due to a change made to the emissions unit(s) or the materials applied.

[Authority for term: PTI 02-13601, ORC 3704.03(F)(3)(c) and F(4), OAC rule 3745-114-01, Option A, Engineering Guide #70, and OAC rule 3745-77-07(C)(1)]

(10) The permittee shall maintain a record of any change made to a parameter or value used in the dispersion model, used to demonstrate compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration. The record shall include the date and reason(s) for the change and if the change would increase the ground-level concentration.

[Authority for term: PTI 02-13601, ORC 3704.03(F)(3)(c) and F(4), OAC rule 3745-114-01, Option A, Engineering Guide #70, and OAC rule 3745-77-07(C)(1)]

e) Reporting Requirements

(1) The permittee shall submit quarterly deviation (excursion) reports that identify the following:

a. each exceedance of the hourly OC emission limitation;

[Authority for term: PTI 02-13601 and OAC rule 3745-77-07(C)(1)]

b. each day when a photochemically reactive material was employed;

[Authority for term: PTI 02-13601 and OAC rule 3745-77-07(C)(1)]

c. any daily record showing that the dry particulate filter system was not in service or not operated according to manufacturer's recommendations (with any documented modifications made by the permittee) when the emissions unit(s) was/were in operation; and

[Authority for term: OAC rule 3745-15-03(B)(1)(a), OAC rule 3745-15-03(C), and OAC rule 3745-77-07(C)(1)]

d. any changes made to a parameter or value used in the dispersion model, that was used to demonstrate compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration; or if no changes to the emissions, emissions unit(s), or the exhaust stack have been made, a statement to this effect.

[Authority for term: ORC 3704.03(F)(3)(c) and F(4), OAC rule 3745-114-01, Option A, Engineering Guide #70]

The permittee shall submit the quarterly deviation (excursion) reports in accordance with the General Terms and Conditions of this permit.

(2) The permittee shall also submit annual reports that specify the total OC emissions from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

[Authority for term: PTI 02-13601 and OAC rule 3745-77-07(C)(1)]

f) Testing Requirements

(1) Compliance with the emissions limitations specified in b)(1) of these terms and conditions shall be determined in accordance with the following methods:

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

OC emissions shall not exceed 11.52 pounds per hour.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in d)(6). The OC content of each coating and cleanup material used shall be based upon formulation data or the procedures specified in 40 CFR Part 60, Appendix A, Method 24.

[Authority for term:PTI 02-13601 and OAC rule 3745-77-07(C)(1)]

b. Emission Limitation:

OC emissions shall not exceed 30.82 tons per year.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in d)(6) and shall be the sum of the monthly OC emissions divided by 2000 lbs/ton.

[Authority for term:PTI 02-13601 and OAC rule 3745-77-07(C)(1)]

g) Miscellaneous Requirements

(1) None.

9. R003, DOOR LINE 1

Operations, Property and/or Equipment Description:

SPRAYING INTERIOR TRIM AND DOORS USING SOLVENT STAINS, UV TOPCOATS AND WATER BASED PRIMERS AND TOPCOATS (Line consists of a sanding station, a roll coater, uv oven, sanding station, spray booth, stain wipe, 3 hot air ovens and a uv oven)

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05 (A)(3) (PTI 02-13601)	Organic compound (OC) emissions shall not exceed 16.42 pounds per hour and 23.71 tons per year. The requirements of this rule also include compliance with the requirements of OAC rules 3745-21-07 (G)(2) and 3745-17-11(C).
b.	OAC rule 3745-21-07(G)(2)	See b)(2)a and b)(2)b.
c.	OAC rule 3745-17-11(C)	See b)(2)c, c)(1), c)(2) and d)(1) through d)(5).

(2) Additional Terms and Conditions

a. This emissions unit shall not employ any photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5), as coatings or cleanup materials.

b. On February 18, 2008, OAC rule 3745-21-07 was revised in its entirety; therefore, the 21-07 rule that was in effect prior to this date is no longer part of the State regulations. On April 4, 2008, the rule revision was submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP); however, until the U.S. EPA approves the revision to OAC rule 3745-21-07, the requirement to comply with the previous 21-07 rule provisions still exists as part of the federally-approved SIP for Ohio. The following terms and conditions shall become void after U.S. EPA approves the rule revision:

b)(2)a.

The emission limitations and control requirements from the amended 21-07 rule, and the associated operational restrictions and the monitoring, record keeping, and reporting requirements contained in this permit, shall become federally enforceable on the date the U.S. EPA approves the revised OAC rule 3745-21-07 as a revision to the Ohio State Implementation Plan. The following terms shall become federally enforceable after U.S. EPA approves the rule revision:

None

c. On February 1, 2008, OAC rule 3745-17-11 was revised to include paragraph (C), pertaining to control requirements for particulate emissions from surface coating processes. These control requirements and the associated operational restrictions, monitoring, record keeping, and reporting requirements contained in this permit shall become federally enforceable on the date the U.S. EPA approves paragraph (C) of OAC rule 3745-17-11 as a revision to the Ohio State Implementation Plan.

c) Operational Restrictions

(1) The permittee shall operate the dry filtration system for the control of particulate emissions whenever this emissions unit is in operation and shall maintain the dry particulate filter in accordance with the manufacturer's recommendations, instructions, and/or operating manual(s), with any modifications deemed necessary by the permittee.

[Authority for term: PTI 02-13601, OAC rule 3745-17-11(C)(1) and (2)(b) and OAC rule 3745-77-07(A)(1)]

(2) In the event the particulate filter system is not operating in accordance with the manufacturer's recommendations, instructions, or operating manual, with any modifications deemed necessary by the permittee, the control device shall be expeditiously repaired or otherwise returned to these documented operating conditions.

[Authority for term: PTI 02-13601, OAC rule 3745-17-11(C)(2)(e) and OAC rule 3745-77-07(A)(1)]

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain documentation of the manufacturer's recommendations, instructions, or operating manuals for the dry particulate filter, along with documentation of any modifications deemed necessary by the permittee. These documents shall be maintained at the facility and shall be made available to the Ohio EPA Northeast District Office upon request.

[Authority for term: OAC 3745-17-11(C)(2)(a) and OAC rule 3745-77-07(C)(1)]

(2) The permittee shall conduct periodic inspections of the dry particulate filter to determine whether it is operating in accordance with the manufacturer's recommendations, instructions, or operating manuals with any modifications deemed necessary by the permittee or operator. These inspections shall be performed at a frequency that shall be

based upon the recommendation of the manufacturer and the permittee shall maintain a copy of the manufacturer's recommended inspection frequency and it shall be made available to the Ohio EPA upon request.

[Authority for term: OAC rule 3745-17-11(C)(2)(c) and OAC rule 3745-77-07(C)(1)]

(3) In addition to the recommended periodic inspections, not less than once each calendar year the permittee shall conduct a comprehensive inspection of the dry particulate filter while the emissions unit is shut down and perform any needed maintenance and repair to ensure that it is operated in accordance with the manufacturer's recommendations.

[Authority for term: OAC rule 3745-17-11(C)(2)(c) and OAC rule 3745-77-07(C)(1)]

(4) The permittee shall document each inspection (periodic and annual) of the dry particulate filter system and shall maintain the following information:

a. the date of the inspection;
b. a description of each/any problem identified and the date it was corrected;
c. a description of any maintenance and repairs performed; and
d. the name of person who performed the inspection.

These records shall be maintained at the facility for not less than five years from the date the inspection and any necessary maintenance or repairs were completed and shall be made available to the Ohio EPA Northeast District Office upon request.

[Authority for term: OAC rule 3745-17-11(C)(2)(d) and (f), and OAC rule 3745-77-07(C)(1)]

(5) The permittee shall maintain records that document any time periods when the dry particulate filter was not in service when the emissions unit(s) was/were in operation, as well as, a record of all operations during which the dry particulate filter was not operated according to the manufacturer's recommendations with any documented modifications made by the permittee. These records shall be maintained for a period of not less than five years and shall be made available to the Ohio EPA upon request.

[Authority for term: PTI 02-13601, OAC rule 3745-17-11(C)(2)(e),(f), and (g), and OAC rule 3745-77-07(C)(1)]

(6) The permittee shall maintain monthly records of the following information:

a. the name and identification number of each coating and cleanup material employed and documentation as to whether or not each is a photochemically reactive material;

b. the amount of each coating and cleanup material used, in gallons;

c. the OC content of each coating and clean up material, in pounds of OC per gallon;

d. the total OC emissions for all the coatings and cleanup materials employed, i.e., the summation of b x c for all coatings and cleanup materials, in pounds;

e. the total number of hours of operation; and

f. the average hourly OC emissions, i.e., d/e, in pounds per hour.

[Authority for term: PTI 02-13601 and OAC rule 3745-77-07(C)(1)]

(7) The permit-to-install (PTI) application for this/these emissions unit(s), R003, was evaluated based on the actual materials and the design parameters of the emissions unit's(s') exhaust system, as specified by the permittee. The "Toxic Air Contaminant Statute", ORC 3704.03(F), was applied to this/these emissions unit(s) for each toxic air contaminant listed in OAC rule 3745-114-01, using data from the permit application; and modeling was performed for each toxic air contaminant(s) emitted at over one ton per year using an air dispersion model such as SCREEN3, AERMOD, or ISCST3, or other Ohio EPA approved model. The predicted 1-hour maximum ground-level concentration result(s) from the approved air dispersion model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC), calculated as described in the Ohio EPA guidance document entitled "Review of New Sources of Air Toxic Emissions, Option A", as follows:

a. the exposure limit, expressed as a time-weighted average concentration for a conventional 8-hour workday and a 40-hour workweek, for each toxic compound(s) emitted from the emissions unit(s), (as determined from the raw materials processed and/or coatings or other materials applied) has been documented from one of the following sources and in the following order of preference (TLV was and shall be used, if the chemical is listed):

i. threshold limit value (TLV) from the American Conference of Governmental Industrial Hygienists' (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; or

ii. STEL (short term exposure limit) or the ceiling value from the American Conference of Governmental Industrial Hygienists' (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; the STEL or ceiling value is multiplied by 0.737 to convert the 15-minute exposure limit to an equivalent 8-hour TLV.

b. The TLV is divided by ten to adjust the standard from the working population to the general public (TLV/10).

c. This standard is/was then adjusted to account for the duration of the exposure or the operating hours of the emissions unit(s), i.e., "24" hours per day and "7" days per week, from that of 8 hours per day and 5 days per week. The resulting calculation was (and shall be) used to determine the Maximum Acceptable Ground-Level Concentration (MAGLC):

$$TLV/10 \times 8/X \times 5/Y = 4\ TLV/XY = MAGLC$$

d. The following summarizes the results of dispersion modeling for the significant toxic contaminants (emitted at 1 or more tons/year) or "worst case" toxic contaminant(s):

Toxic Contaminant: n-butyl acetate

TLV (mg/m3): 712.6

Maximum Hourly Emission Rate (lbs/hr): 4.1

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 380.5

MAGLC (ug/m3): 17,000

The permittee, has demonstrated that emissions of n-butyl acetate (along with ethanol, isopropyl acetate, isobutyl acetate, toluene, acetone, xylene, methyl ethyl ketone, 2-butoxyethanol, and methanol), from emissions unit(s) R003, is calculated to be less than eighty per cent of the maximum acceptable ground level concentration (MAGLC); any new raw material or processing agent shall not be applied without evaluating each component toxic air contaminant in accordance with the "Toxic Air Contaminant Statute", ORC 3704.03(F).

[Authority for term: PTI 02-13601, ORC 3704.03(F)(3)(c) and F(4), OAC rule 3745-114-01, Option A, Engineering Guide #70, and OAC rule 3745-77-07(C)(1)]

(8) Prior to making any physical changes to or changes in the method of operation of the emissions unit(s), that could impact the parameters or values that were used in the predicted 1-hour maximum ground-level concentration, the permittee shall re-model the change(s) to demonstrate that the MAGLC has not been exceeded. Changes that can affect the parameters/values used in determining the 1-hour maximum ground-level concentration include, but are not limited to, the following:

a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a new toxic air contaminant with a lower Threshold Limit Value (TLV) than the lowest TLV previously modeled;

b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any toxic air contaminant listed in OAC rule 3745-114-01, that was modeled from the initial (or last) application; and

c. physical changes to the emissions unit(s) or its/their exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Toxic Air Contaminant Statute" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to a non-restrictive change to a parameter or process operation, where compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), has been documented. If the change(s) meet(s) the definition of a "modification", the permittee shall apply for and obtain a final PTI prior to the change. The Director may consider any significant departure from the operations of the

emissions unit, described in the permit application, as a modification that results in greater emissions than the emissions rate modeled to determine the ground level concentration; and he/she may require the permittee to submit a permit application for the increased emissions.

[Authority for term: PTI 02-13601, ORC 3704.03(F)(3)(c) and F(4), OAC rule 3745-114-01, Option A, Engineering Guide #70 and OAC rule 3745-77-07(C)(1)]

(9) The permittee shall collect, record, and retain the following information for each toxic evaluation conducted to determine compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F):

a. a description of the parameters/values used in each compliance demonstration and the parameters or values changed for any re-evaluation of the toxic(s) modeled (the composition of materials, new toxic contaminants emitted, change in stack/exhaust parameters, etc.);

b. the Maximum Acceptable Ground-Level Concentration (MAGLC) for each significant toxic contaminant or worst-case contaminant, calculated in accordance with the "Toxic Air Contaminant Statute", ORC 3704.03(F);

c. a copy of the computer model run(s), that established the predicted 1-hour maximum ground-level concentration that demonstrated the emissions unit(s) to be in compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), initially and for each change that requires re-evaluation of the toxic air contaminant emissions; and

d. the documentation of the initial evaluation of compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), and documentation of any determination that was conducted to re-evaluate compliance due to a change made to the emissions unit(s) or the materials applied.

[Authority for term: PTI 02-13601, ORC 3704.03(F)(3)(c) and F(4), OAC rule 3745-114-01, Option A, Engineering Guide #70, and OAC rule 3745-77-07(C)(1)]

(10) The permittee shall maintain a record of any change made to a parameter or value used in the dispersion model, used to demonstrate compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration. The record shall include the date and reason(s) for the change and if the change would increase the ground-level concentration.

[Authority for term: PTI 02-13601, ORC 3704.03(F)(3)(c) and F(4), OAC rule 3745-114-01, Option A, Engineering Guide #70, and OAC rule 3745-77-07(C)(1)]

e) Reporting Requirements

(1) The permittee shall submit quarterly deviation (excursion) reports that identify the following:

a. each exceedance of the hourly OC emission limitation;

[Authority for term: PTI 02-13601 and OAC rule 3745-77-07(C)(1)]

b. each day when a photochemically reactive material was employed;

[Authority for term: PTI 02-13601 and OAC rule 3745-77-07(C)(1)]

c. any daily record showing that the dry particulate filter system was not in service or not operated according to manufacturer's recommendations (with any documented modifications made by the permittee) when the emissions unit(s) was/were in operation; and

[Authority for term: OAC rule 3745-15-03(B)(1)(a), OAC rule 3745-15-03(C), and OAC rule 3745-77-07(C)(1)]

d. any changes made to a parameter or value used in the dispersion model, that was used to demonstrate compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration; or if no changes to the emissions, emissions unit(s), or the exhaust stack have been made, a statement to this effect.

[Authority for term: ORC 3704.03(F)(3)(c) and F(4), OAC rule 3745-114-01, Option A, Engineering Guide #70]

The permittee shall submit the quarterly deviation (excursion) reports in accordance with the General Terms and Conditions of this permit.

(2) The permittee shall also submit annual reports that specify the total OC emissions from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

[Authority for term: PTI 02-13601 and OAC rule 3745-77-07(C)(1)]

f) Testing Requirements

(1) Compliance with the emissions limitations specified in b)(1) of these terms and conditions shall be determined in accordance with the following methods:

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

OC emissions shall not exceed 16.42 pounds per hour.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in d)(6). The OC content of each coating and cleanup material used shall be based upon formulation data or the procedures specified in 40 CFR Part 60, Appendix A, Method 24.

[Authority for term:PTI 02-13601 and OAC rule 3745-77-07(C)(1)]

b. Emission Limitation:

OC emissions shall not exceed 23.71 tons per year.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in d)(6) and shall be the sum of the monthly OC emissions divided by 2000 lbs/ton.

[Authority for term:PTI 02-13601 and OAC rule 3745-77-07(C)(1)]

g) Miscellaneous Requirements

(1) None.

10. R004, MANUAL SPRAY BOOTH 1

Operations, Property and/or Equipment Description:

MANUAL SPRAYING OF VARIOUS PARTS THAT CANNOT BE RUN ON AUTOMATIC SPRAY LINES

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05 (A)(3) (PTI 02-13601)	Organic compound (OC) emissions shall not exceed 1.78 pounds per hour and 2.25 tons per year. The requirements of this rule also include compliance with the requirements of OAC rules 3745-21-07 (G)(2) and 3745-17-11(C).
b.	OAC rule 3745-21-07(G)(2)	See b)(2)a and b)(2)b.
c.	OAC rule 3745-17-11(C)	See b)(2)c, c)(1), c)(2) and d)(1) through d)(5).

(2) Additional Terms and Conditions

a. This emissions unit shall not employ any photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5), as coatings or cleanup materials.

b. On February 18, 2008, OAC rule 3745-21-07 was revised in its entirety; therefore, the 21-07 rule that was in effect prior to this date is no longer part of the State regulations. On April 4, 2008, the rule revision was submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP); however, until the U.S. EPA approves the revision to OAC rule 3745-21-07, the requirement to comply with the previous 21-07 rule provisions still exists as part of the federally-approved SIP for Ohio. The following terms and conditions shall become void after U.S. EPA approves the rule revision:

b)(2)a.

The emission limitations and control requirements from the amended 21-07 rule, and the associated operational restrictions and the monitoring, record keeping, and reporting requirements contained in this permit, shall become federally enforceable on the date the U.S. EPA approves the revised OAC rule 3745-21-07 as a revision to the Ohio State Implementation Plan. The following terms shall become federally enforceable after U.S. EPA approves the rule revision:

None

c. On February 1, 2008, OAC rule 3745-17-11 was revised to include paragraph (C), pertaining to control requirements for particulate emissions from surface coating processes. These control requirements and the associated operational restrictions, monitoring, record keeping, and reporting requirements contained in this permit shall become federally enforceable on the date the U.S. EPA approves paragraph (C) of OAC rule 3745-17-11 as a revision to the Ohio State Implementation Plan.

c) Operational Restrictions

(1) The permittee shall operate the dry filtration system for the control of particulate emissions whenever this emissions unit is in operation and shall maintain the dry particulate filter in accordance with the manufacturer's recommendations, instructions, and/or operating manual(s), with any modifications deemed necessary by the permittee.

[Authority for term: PTI 02-13601, OAC rule 3745-17-11(C)(1) and (2)(b) and OAC rule 3745-77-07(A)(1)]

(2) In the event the particulate filter system is not operating in accordance with the manufacturer's recommendations, instructions, or operating manual, with any modifications deemed necessary by the permittee, the control device shall be expeditiously repaired or otherwise returned to these documented operating conditions.

[Authority for term: PTI 02-13601, OAC rule 3745-17-11(C)(2)(e) and OAC rule 3745-77-07(A)(1)]

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain documentation of the manufacturer's recommendations, instructions, or operating manuals for the dry particulate filter, along with documentation of any modifications deemed necessary by the permittee. These documents shall be maintained at the facility and shall be made available to the Ohio EPA Northeast District Office upon request.

[Authority for term: OAC 3745-17-11(C)(2)(a) and OAC rule 3745-77-07(C)(1)]

(2) The permittee shall conduct periodic inspections of the dry particulate filter to determine whether it is operating in accordance with the manufacturer's recommendations, instructions, or operating manuals with any modifications deemed necessary by the permittee or operator. These inspections shall be performed at a frequency that shall be based upon the recommendation of the manufacturer and the permittee shall maintain a

copy of the manufacturer's recommended inspection frequency and it shall be made available to the Ohio EPA upon request.

[Authority for term: OAC rule 3745-17-11(C)(2)(c) and OAC rule 3745-77-07(C)(1)]

(3) In addition to the recommended periodic inspections, not less than once each calendar year the permittee shall conduct a comprehensive inspection of the dry particulate filter while the emissions unit is shut down and perform any needed maintenance and repair to ensure that it is operated in accordance with the manufacturer's recommendations.

[Authority for term: OAC rule 3745-17-11(C)(2)(c) and OAC rule 3745-77-07(C)(1)]

(4) The permittee shall document each inspection (periodic and annual) of the dry particulate filter system and shall maintain the following information:

a. the date of the inspection;
b. a description of each/any problem identified and the date it was corrected;
c. a description of any maintenance and repairs performed; and
d. the name of person who performed the inspection.

These records shall be maintained at the facility for not less than five years from the date the inspection and any necessary maintenance or repairs were completed and shall be made available to the Ohio EPA Northeast District Office upon request.

[Authority for term: OAC rule 3745-17-11(C)(2)(d) and (f), and OAC rule 3745-77-07(C)(1)]

(5) The permittee shall maintain records that document any time periods when the dry particulate filter was not in service when the emissions unit(s) was/were in operation, as well as, a record of all operations during which the dry particulate filter was not operated according to the manufacturer's recommendations with any documented modifications made by the permittee. These records shall be maintained for a period of not less than five years and shall be made available to the Ohio EPA upon request.

[Authority for term: PTI 02-13601, OAC rule 3745-17-11(C)(2)(e),(f), and (g), and OAC rule 3745-77-07(C)(1)]

(6) The permittee shall maintain monthly records of the following information:

a. the name and identification number of each coating and cleanup material employed and documentation as to whether or not each is a photochemically reactive material;

b. the amount of each coating and cleanup material used, in gallons;

c. the OC content of each coating and cleanup material, in pounds of OC per gallon;

d. the total OC emissions for all the coatings and cleanup materials employed, i.e., the summation of b x c for all coatings and cleanup materials employed, in pounds;

e. the total number of hours of operation; and

f. the average hourly OC emissions, i.e., d/e, in pounds per hour.

[Authority for term: PTI 02-13601 and OAC rule 3745-77-07(C)(1)]

(7) The permit-to-install (PTI) application for this/these emissions unit(s), R004, was evaluated based on the actual materials and the design parameters of the emissions unit's(s') exhaust system, as specified by the permittee. The "Toxic Air Contaminant Statute", ORC 3704.03(F), was applied to this/these emissions unit(s) for each toxic air contaminant listed in OAC rule 3745-114-01, using data from the permit application; and modeling was performed for each toxic air contaminant(s) emitted at over one ton per year using an air dispersion model such as SCREEN3, AERMOD, or ISCST3, or other Ohio EPA approved model. The predicted 1-hour maximum ground-level concentration result(s) from the approved air dispersion model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC), calculated as described in the Ohio EPA guidance document entitled "Review of New Sources of Air Toxic Emissions, Option A", as follows:

a. the exposure limit, expressed as a time-weighted average concentration for a conventional 8-hour workday and a 40-hour workweek, for each toxic compound(s) emitted from the emissions unit(s), (as determined from the raw materials processed and/or coatings or other materials applied) has been documented from one of the following sources and in the following order of preference (TLV was and shall be used, if the chemical is listed):

i. threshold limit value (TLV) from the American Conference of Governmental Industrial Hygienists' (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; or

ii. STEL (short term exposure limit) or the ceiling value from the American Conference of Governmental Industrial Hygienists' (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; the STEL or ceiling value is multiplied by 0.737 to convert the 15-minute exposure limit to an equivalent 8-hour TLV.

b. The TLV is divided by ten to adjust the standard from the working population to the general public (TLV/10).

c. This standard is/was then adjusted to account for the duration of the exposure or the operating hours of the emissions unit(s), i.e., "24" hours per day and "7" days per week, from that of 8 hours per day and 5 days per week. The resulting calculation was (and shall be) used to determine the Maximum Acceptable Ground-Level Concentration (MAGLC):

$$TLV/10 \times 8/X \times 5/Y = 4\ TLV/XY = MAGLC$$

d. The following summarizes the results of dispersion modeling for the significant toxic contaminants (emitted at 1 or more tons/year) or "worst case" toxic contaminant(s):

Toxic Contaminant: isobutyl acetate

TLV (mg/m3): 712.6

Maximum Hourly Emission Rate (lbs/hr): 0.35

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 530.1

MAGLC (ug/m3): 17,000

The permittee, has demonstrated that emissions of isobutyl acetate (along with ethanol, isopropyl acetate, n-butyl acetate, toluene, xylene, methyl ethyl ketone, 2-butoxyethanol, and methanol), from emissions unit(s) R004, is calculated to be less than eighty per cent of the maximum acceptable ground level concentration (MAGLC); any new raw material or processing agent shall not be applied without evaluating each component toxic air contaminant in accordance with the "Toxic Air Contaminant Statute", ORC 3704.03(F).

[Authority for term: PTI 02-13601, ORC 3704.03(F)(3)(c) and F(4), OAC rule 3745-114-01, Option A, Engineering Guide #70, and OAC rule 3745-77-07(C)(1)]

(8) Prior to making any physical changes to or changes in the method of operation of the emissions unit(s), that could impact the parameters or values that were used in the predicted 1-hour maximum ground-level concentration, the permittee shall re-model the change(s) to demonstrate that the MAGLC has not been exceeded. Changes that can affect the parameters/values used in determining the 1-hour maximum ground-level concentration include, but are not limited to, the following:

a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a new toxic air contaminant with a lower Threshold Limit Value (TLV) than the lowest TLV previously modeled;

b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any toxic air contaminant listed in OAC rule 3745-114-01, that was modeled from the initial (or last) application; and

c. physical changes to the emissions unit(s) or its/their exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Toxic Air Contaminant Statute" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to a non-restrictive change to a parameter or process operation, where compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), has been documented. If the change(s) meet(s) the definition of a "modification", the permittee shall apply for and obtain a final PTI prior to the change. The Director may consider any significant departure from the operations of the emissions unit, described in the permit application, as a modification that results in

greater emissions than the emissions rate modeled to determine the ground level concentration; and he/she may require the permittee to submit a permit application for the increased emissions.

[Authority for term: PTI 02-13601, ORC 3704.03(F)(3)(c) and F(4), OAC rule 3745-114-01, Option A, Engineering Guide #70 and OAC rule 3745-77-07(C)(1)]

(9) The permittee shall collect, record, and retain the following information for each toxic evaluation conducted to determine compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F):

a. a description of the parameters/values used in each compliance demonstration and the parameters or values changed for any re-evaluation of the toxic(s) modeled (the composition of materials, new toxic contaminants emitted, change in stack/exhaust parameters, etc.);

b. the Maximum Acceptable Ground-Level Concentration (MAGLC) for each significant toxic contaminant or worst-case contaminant, calculated in accordance with the "Toxic Air Contaminant Statute", ORC 3704.03(F);

c. a copy of the computer model run(s), that established the predicted 1-hour maximum ground-level concentration that demonstrated the emissions unit(s) to be in compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), initially and for each change that requires re-evaluation of the toxic air contaminant emissions; and

d. the documentation of the initial evaluation of compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), and documentation of any determination that was conducted to re-evaluate compliance due to a change made to the emissions unit(s) or the materials applied.

[Authority for term: PTI 02-13601, ORC 3704.03(F)(3)(c) and F(4), OAC rule 3745-114-01, Option A, Engineering Guide #70, and OAC rule 3745-77-07(C)(1)]

(10) The permittee shall maintain a record of any change made to a parameter or value used in the dispersion model, used to demonstrate compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration. The record shall include the date and reason(s) for the change and if the change would increase the ground-level concentration.

[Authority for term: PTI 02-13601, ORC 3704.03(F)(3)(c) and F(4), OAC rule 3745-114-01, Option A, Engineering Guide #70, and OAC rule 3745-77-07(C)(1)]

e) Reporting Requirements

(1) The permittee shall submit quarterly deviation (excursion) reports that identify the following:

a. each exceedance of the hourly OC emission limitation;

[Authority for term: PTI 02-13601 and OAC rule 3745-77-07(C)(1)]

b. each day when a photochemically reactive material was employed;

[Authority for term: PTI 02-13601 and OAC rule 3745-77-07(C)(1)]

c. any daily record showing that the dry particulate filter system was not in service or not operated according to manufacturer's recommendations (with any documented modifications made by the permittee) when the emissions unit(s) was/were in operation; and

[Authority for term: OAC rule 3745-15-03(B)(1)(a), OAC rule 3745-15-03(C), and OAC rule 3745-77-07(C)(1)]

d. any changes made to a parameter or value used in the dispersion model, that was used to demonstrate compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration; or if no changes to the emissions, emissions unit(s), or the exhaust stack have been made, a statement to this effect.

[Authority for term: ORC 3704.03(F)(3)(c) and F(4), OAC rule 3745-114-01, Option A, Engineering Guide #70]

The permittee shall submit the quarterly deviation (excursion) reports in accordance with the General Terms and Conditions of this permit.

(2) The permittee shall also submit annual reports that specify the total OC emissions from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

[Authority for term: PTI 02-13601 and OAC rule 3745-77-07(C)(1)]

f) Testing Requirements

(1) Compliance with the emissions limitations specified in b)(1) of these terms and conditions shall be determined in accordance with the following methods:

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

OC emissions shall not exceed 1.78 pounds per hour.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in d)(6). The OC content of each coating and cleanup material used shall be based upon formulation data or the procedures specified in 40 CFR Part 60, Appendix A, Method 24.

[Authority for term:PTI 02-13601 and OAC rule 3745-77-07(C)(1)]

b. Emission Limitation:

OC emissions shall not exceed 2.25 tons per year.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in d)(6) and shall be the sum of the monthly OC emissions divided by 2000 lbs/ton.

[Authority for term:PTI 02-13601 and OAC rule 3745-77-07(C)(1)]

g) Miscellaneous Requirements

(1) None.