

5/9/2011

Certified Mail

Facility ID: 0306020008
Permit Number: P0107852
County: Auglaize

Carl Wintzer
G. A. Wintzer & Company
P. O. Box 406
204 W. Auglaize Street
Wapakoneta, OH 45895-0406

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, Wapakoneta Daily News. 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, Northwest District Office
347 North Dunbridge Road
Bowling Green, OH 43402

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, Northwest District Office at (419)352-8461.

Sincerely,


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

Cc: U.S. EPA Region 5 -Via E-Mail Notification
Ohio EPA-NWDO; Indiana

PUBLIC NOTICE
Issuance of Draft Air Pollution Title V Permit
G. A. Wintzer & Company

Issue Date: 5/9/2011

Permit Number: P0107852

Permit Type: Renewal

Permit Description: Title V Renewal permit for a facility that processes wastes /by-products from rendering plants, including mainly animal and marine fats /greases and oils - the main sources of air emissions are the combustion boilers for process heat and steam.

Facility ID: 0306020008

Facility Location: G. A. Wintzer & Company
12279 S. Dixie Highway,
Wapakoneta, OH 45895

Facility Description: Rendering and Meat Byproduct Processing

Scott J. Nally, 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 Andrea Moore at Ohio EPA DAPC, Northwest District Office, 347 North Dunbridge Road, Bowling Green, OH 43402 or (419)352-8461. 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:	0306020008
Facility Name:	G. A. Wintzer & Company
Facility Description:	Animal and Marine Fats and Oil
Facility Address:	12279 S. Dixie Highway, Wapakoneta, OH 45895
Permit #:	P0107852, Renewal
This facility is subject to Title V because it is major for: <input type="checkbox"/> Lead <input type="checkbox"/> Sulfur Dioxide <input type="checkbox"/> Carbon Monoxide <input type="checkbox"/> Volatile Organic Compounds <input type="checkbox"/> Nitrogen Oxides <input type="checkbox"/> Particulate Matter ≤ 10 microns <input type="checkbox"/> Single Hazardous Air Pollutant <input type="checkbox"/> Combined Hazardous Air Pollutants <input type="checkbox"/> Maximum Available Control Technology Standard(s)	

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)	B001, B002, B003 - (PTI 03-17366 issued June 12, 2008) B003 - (PTI P0105938 issued February 17, 2011)

B. Facility-Wide Terms and Conditions

Term and Condition (paragraph)	Basis		<u>Comments</u>
	SIP (3745-)	Other	
B.2	77-07(A)(13)		Lists insignificant emission units that have one or more applicable requirements.
B.3		15-05	Lists insignificant emission units that are “de minimis” or not subject to any 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 B002	0.020 lb PE /mmBtu *	17-10 (B)(1)		N	N	Y	N	N	Y	N	Y	N	N	N	M - Daily visible emissions checks. ET - None - 'Static' AP-42 emission factor calculation at maximum capacity determines compliance. * (when firing excludes residual oils /biofuels)
B001 B002	0.31 lb PE /mmBtu *	17-10 (B)(1)		N	N	Y	N	N	Y	N	Y	N	N	N	M - Daily visible emissions checks. ET - None - per Ohio EPA Engineering Guide 16. * (when firing includes residual oils /biofuels)
B001 B002	1.6 lb SO2 /mmBtu	18-06 (D)		N	Y	Y	N	N	Y	N	Y	N	N	N	OR - Must use fuel with compliant sulfur content. M - Fuel sulfur tracking. ET - None - Mass balance calculations determine compliance.
B001 B002	20% opacity	17-07 (A)		N	N	Y	N	N	Y	N	Y	N	N	N	M - Daily visible emissions checks. ET - None normally required for opacity alone.
B001 B002 B003	246 tons NOx /yr *	31-05 (D)		N	Y	Y	N	N	Y	N	Y	N	N	N	OR - limit on fuel usage (by fuel type) M - Tracking of fuel usage by type. ET - None - Mass balance calculations determine compliance. * rolling 12-month average
B001 B002	246 tons SO2 /yr *	31-05 (D)		N	Y	Y	N	N	Y	N	Y	N	N	N	OR - limit on fuel usage (by fuel type) and sulfur content.



B003																M - Tracking of fuel usage by type, and sulfur content. ET - None - Mass balance calculations determine compliance. * rolling 12-month average
B003	0.020 lb PE /mmBtu *	17-10 (B)(1)		N	N	Y	N	N	Y	N	Y	N	N	N	N	M - Tracking for any day where a fuel that is not an 'inherently clean fuel' was used. ET - None - 'Static' AP-42 emission factor calculation at maximum capacity determines compliance. * (when firing excludes residual oils /biofuels)
B003	0.31 lb PE /mmBtu *	17-10 (B)(1)		N	N	Y	N	N	Y	N	Y	N	N	N	N	M - Daily visible emissions checks. ET - None - per Ohio EPA Engineering Guide 16. * (when firing includes residual oils /biofuels)
B003	0.56 lb SO2 /mmBtu	18-06 (D)		N	Y	Y	N	N	Y	N	Y	N	N	N	N	OR - Must use fuel with compliant sulfur content. M - Fuel sulfur tracking. ET - None - Mass balance calculations determine compliance.
B003	20% opacity	17-07 (A)	40 C F R 60 . 43c	N	N	Y	N	N	Y	N	Y	N	N	N	N	M - Daily visible emissions checks. ET - None normally required for opacity alone.
B003	0.084 lb CO /mmBtu *	31-05		N	N	Y	N	N	Y	N	Y	N	N	N	N	M, R, Rp, ET - None - 'Static' AP-42 emission factor calculation at maximum capacity determines compliance. * natural gas /propane firing
B003	0.0076 lb PM10 /mmBtu *	31-05		N	N	Y	N	N	Y	N	Y	N	N	N	N	M - Daily visible emissions checks. ET - None - per Ohio EPA Engineering Guide 16. * natural gas /propane firing
B003	0.04 lb CO	31-05		N	N	N	N	N	N	N	N	N	N	N	N	M, R, Rp, ET - None - 'Static' AP-42 emission factor calculation at maximum capacity determines compliance.



																* oil /biofuel firing
P026	5.25 lb PE /hr; 23.0 tons PE /yr	31-05		N	N	N	N	N	N	N	N	N	N	N	N	M, R, Rp, ET - None - 'Static' AP-42 emission factor /manufacturer emission factor calculation at maximum capacity determines compliance.
P026	20% opacity	31-05		N	N	N	N	N	N	N	N	N	N	N	N	M, R, Rp - None - Emissions unit has an elaborate emissions control system, with multiple emissions points, on an inaccessible part of plant roof. (and note: PE limits are conservative, i.e. PE limits do NOT reflect reduction for emissions control.) ET - None normally required for opacity alone.
P026	N/A	17-11 (B)(2)		Y	N	N	N	N	N	N	N	N	N	N	N	ND - The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs / hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table 1 does not apply because the facility is located in Auglaize County.
P026	N/A	17-07 (A)(1)		Y	N	N	N	N	N	N	N	N	N	N	N	ND - This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745 17 07(A), pursuant to OAC rule 3745 17 07(A)(3)(h), because OAC rule 3745 17 11 is not applicable.



DRAFT

**Division of Air Pollution Control
Title V Permit
for
G. A. Wintzer & Company**

Facility ID:	0306020008
Permit Number:	P0107852
Permit Type:	Renewal
Issued:	5/9/2011
Effective:	To be entered upon final issuance
Expiration:	To be entered upon final issuance



Division of Air Pollution Control
Title V Permit
for
G. A. Wintzer & Company

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Authorization

Facility ID: 0306020008
Facility Description: Animal and Marine Fats and Oil
Application Number(s): A0041556, A0041748
Permit Number: P0107852
Permit Description: Title V Renewal permit for a facility that processes wastes /by-products from rendering plants, including mainly animal and marine fats /greases and oils - the main sources of air emissions are the combustion boilers for process heat and steam.
Permit Type: Renewal
Issue Date: 5/9/2011
Effective Date: To be entered upon final issuance
Expiration Date: To be entered upon final issuance
Superseded Permit Number: P0086806

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

G. A. Wintzer & Company
12279 S. Dixie Highway
Wapakoneta, OH 45895

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

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

The above named entity is hereby granted 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, Northwest 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

Effective Date: To be entered upon final issuance

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, Northwest 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.

- f) 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:
- (1) 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; or
 - (2) the 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 contaminant 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.

- (2) 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.
 - (3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - (4) 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 Requirements Under 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.)

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) B.3.
2. The following insignificant emissions units at this facility must comply with all applicable State and federal regulations, and well as any emission limitations and/or control requirements contained within the identified permit to install for the emissions unit. The insignificant emissions units listed below are subject to one or more applicable requirements contained in a permit to install or in the SIP-approved versions of OAC Chapters 3745-17, 3745-18, and/or 3745-21.
 - a) P021 - 440 U supercooker (PTI 03-9924 issued December 18, 1996)
 - b) P022 - Dupps C pressor (PTI 03-9924 issued December 18, 1996)
 - c) P023 - Dupps D pressor (PTI 03-9924 issued December 18, 1996)
 - d) P024 - Bird 24x60 centrifuge (S) (PTI 03-9924 issued December 18, 1996)
 - e) P025 - 2600 equacooker (PTI 03-9924 issued December 18, 1996)
3. The following insignificant emissions units located at this facility are exempt from permit requirements because they are not subject to any applicable requirement (as defined in OAC rule 3745-77-01(H)) or because they meet the "de minimis" criteria established in OAC rule 3745-15-05:
 - a) P008 - Bird 24x38 centrifuge
 - b) P009 - Cooker #1
 - c) P010 - Cooker #2
 - d) P011 - Cooker #3
 - e) P012 - Cooker #4
 - f) P017 - Pressor A
 - g) P018 - Pressor B
 - h) P019 - Bird 24x60 centrifuge (N)
 - i) P027 - DUPPS E PRESSOR
 - j) T002 - 30,000-gallon storage tank
 - k) T013 - 15,000-gallon storage tank
 - l) T017 - Propane Tank
 - m) T018 - 550-Gallon Storage Tank

C. Emissions Unit Terms and Conditions



1. B003, #3 Boiler

Operations, Property and/or Equipment Description:

Boiler No. 3: 87.5 mmBtu/hr boiler - No. 2 fuel oil, No. 6 fuel oil, natural gas, biofuel (organic oils and greases) and/or LPG (propane).

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 P0105938 issued February 17, 2011)	See b)(2)e and b)(2)i. <u>Short-term emission limits - natural gas /LPG:</u> 0.084 lb carbon monoxide (CO) /mmBtu of heat input; 0.0076 lb particulate matter 10 microns or less (PM ₁₀) /mmBtu of heat input [See b)(2)d.] <u>Short-term emission limits - oils:</u> 0.04 lb CO /mmBtu of heat input; 0.56 lb sulfur dioxide (SO ₂) per mmBtu of heat input [See b)(2)f]; 0.017 lb PM ₁₀ /mmBtu of heat input, when firing only No. 2 fuel oil 0.21 lb PM ₁₀ /mmBtu of heat input, when firing other oils / any combination of oils <u>Long-term emission limits - natural gas /LPG and/or oils:</u> 80.5 tons PM ₁₀ /year; 32.2 tons CO /year



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
b.	OAC rule 3745-31-05(A)(3), as effective 11/30/01 (PTI P0105938 issued February 17, 2011)	0.01 lb organic compounds (OC) /mmBtu of heat input; 3.83 tons OC /year See b)(2)d and b)(2)j.
c.	OAC rule 3745-31-05(A)(3), as effective 12/01/06 (PTI P0105938 issued February 17, 2011)	See b)(2)k.
d.	OAC rule 3745-31-05(D)	246 tons nitrogen oxides (NO _x) per rolling 12-month period 246 tons SO ₂ per rolling 12-month period See b)(2)a.
e.	OAC rule 3745-110-03(B)	0.10 lb NO _x /mmBtu of heat input - natural gas; 0.23 lb NO _x /mmBtu of heat input - oils / biofuel
f.	OAC rule 3745-17-07(A)(1)	See b)(2)b.
g.	OAC rule 3745-18-06(D)	See b)(2)c.
h.	OAC rule 3745-17-10(B)(1)	0.020 lb particulate emissions (PE) /mmBtu of heat input (when firing only No. 2 fuel oil)
i.	OAC rule 3745-17-10(C)(2)	0.31 lb PE /mmBtu of heat input [when firing oils /biofuel, excluding as in b)(1)h]
j.	40 CFR Part 60 Subpart Dc	Opacity restrictions [See b)(2)b.] Oil content restrictions [See c)(2).]

(2) Additional Terms and Conditions

- a. Annual emissions shall not exceed the following, based upon a rolling, 12-month summation of the monthly emissions (for emissions units B001, B002 and B003, combined):
 - i. 246.0 tons of SO₂/ year; and
 - ii. 246.0 tons of NO_x /year.

The emission limitations are based on fuel usage restrictions [see c)(3)] for the purpose of establishing federally enforceable limitations for "Prevention of Significant Deterioration" (PSD) Potential to Emit (PTE) under the Major Source threshold.

- b. The applicability of OAC rule 3745-17-07(A) and 40 CFR 60.43c (c) for this emissions unit overlap, and result in opacity restrictions as follows:
- i. when firing natural gas: visible emissions not more than 20 percent opacity (6-minute average), except for one 6-minute period in any sixty minutes of not more than 60 percent opacity.
 - ii. when firing fuel oils / biofuels': visible emissions not more than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity. This requirement shall apply at all times, including periods of startup or shutdown lasting no longer than three hours, and malfunction periods which conform with OAC 3745-17-07(A)(3)(c).
- c. The SO₂ emission limitation specified by this rule is less stringent than the SO₂ emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- d. The emission limitation specified by OAC rule 3745-17-10(B)(1) is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). This determination is based on all emissions of particulate matter being PM₁₀ and the established PM₁₀ limitation being more restrictive than particulate emissions limitation established by OAC rule 3745-17-10(B)(1). Particulate emissions (PE) measured using Method 5 of 40 CFR Part 60, Appendix A would be equivalent to the filterable particulates measured using Method 201/201A of 40 CFR, Part 51, Appendix M. A PM₁₀ limitation is more stringent due to the inclusion of condensible particulate matter measured by Method 202 of 40 CFR, Part 51, Appendix M.
- e. The requirements of OAC rule 3745-31-05(A)(3)(a) also include compliance with the requirements of OAC rules 3745-31-05(D), 3745-110-03, and 40 CFR 60 Subpart Dc.
- f. The permittee shall operate according to the written site-specific testing and monitoring plan to address the combustion of residual oils and mixtures of residual oils in emissions units B001, B002, and B003. The plan shall include fuel sampling procedures, testing, analyses, etc. for purposes of obtaining sulfur and heat content information to used to demonstrate compliance with the requirements: for emissions unit B003, the sulfur content of any oil (residual oils, a mixture of No. 2 fuel oil and residual oils, or a mixture of residual oils) shall not exceed 0.5 weight percent and 0.56 lb SO₂ /mmBtu heat input [See c)(2) and c)(3)d].

This plan was submitted to and approved by the Ohio EPA under the provisions of Permit to Install 03-17366.

- g. The permittee shall maintain a written quality assurance/quality control plan for the continuous opacity monitoring system, designed to ensure continuous valid and representative readings of opacity and compliance with 40 CFR Part 60, Appendix B, Performance Specification 1. The plan shall include, at a minimum, procedures for conducting and recording daily automatic zero/span checks,

Effective Date: To be entered upon final issuance

provisions for conducting a quarterly audit of the continuous opacity monitoring system, and a description of preventive maintenance activities. The plan shall describe step by step procedures for ensuring accurate operation of the continuous opacity monitoring system on a continuous basis. The quality assurance /quality control plan and a logbook dedicated to the continuous opacity monitoring system must be kept on site and available for inspection during regular office hours.

[40 CFR 60.13 and 40 CFR Part 60, Appendix B]

- h. The COMS consists of all the equipment used to acquire data and record opacity.
[40 CFR 60.2 and/or 40 CFR 63.2 and Appendix B to 40 CFR Part 60]
- i. 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, SO₂, and PM₁₀ 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.
- j. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to 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 ORC changes effective August 3, 2006 (S.B 265 changes), such that BAT is no longer required by state regulations for NAAQS pollutants 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 3745-31-05, then these emission limits/controls measures no longer apply.
- k. This rule (paragraph) applies once U.S. EPA approves the December 1, 2006 version of OAC 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 organic compounds (includes volatile organic compounds) emissions from this air contaminant source since the uncontrolled potential to emit for emissions of organic compounds is less than 10 tons per year.

c) Operational Restrictions

- (1) The permittee shall only burn natural gas, residual oils, a mixture of No. 2 fuel oil and residual oils, or a mixture of residual oils in this emissions unit:

Residual oils combusted in this emissions unit shall only be crude oil, fuel oil that does not comply with the specifications under the definition of "distillate oil," and all fuel oil numbers four, five, or six, as defined by ASTM D396-05, "Standard Specification for Fuel Oils."

It should be noted that some of the residual oils used will involve various organic oils and greases produced on site from the rendering process that meet the standards for yellow grease as defined in the Fats and Proteins Research Foundation, Inc. publication #306, "Animal Fats and Recycled Cooking Oils - Alternatives as Burner Fuels" from March 2001.

[OAC 3745-77-07(C)(1), OAC 3745-18-06(D), and PTI P0105938]

- (2) The sulfur content of any oil (residual oils, a mixture of No. 2 fuel oil and residual oils, or a mixture of residual oils) combusted in this emissions unit shall not exceed 0.5 weight percent.
[OAC 3745-77-07(A)(1), PTI P0105938, and 40 CFR 60.42c (d)]
- (3) The maximum rolling, 12-month quantity of fuel burned in emissions units B001, B002, and B003, combined, shall be limited by the following equation. The criteria of the limiting equation must be met for both NO_x and SO₂ (meaning the calculated results for NO_x must not exceed 246 tons and the results for SO₂ must not exceed 246 tons)

$$\sum_{M=1}^{12} \sum_n [\{ (U_m)(C_m) + (U_n)(C_n) \} (1 \text{ ton} / 2000 \text{ lbs})] \leq 246$$

where:

M = the increment of the rolling, 12-month period;

m = the increment of the heat input during the period for emissions units B001 and B002;

n = the increment of the heat input during the period for emissions unit B003;

U_m = total heat input for B001 and B002, in mmBtu, for each individual fuel type: natural gas, propane, No. 2 fuel oil, residual oils, a mixture of No. 2 fuel oil and residual oils, a mixture of residual oils;

U_n = total heat input for B003, in mmBtu, for each individual fuel type: natural gas, residual oils, a mixture of No. 2 fuel oil and residual oils, a mixture of residual oils;

C_m = emission factor for individual boiler fuels for B001 and B002:

C_n = emission factor for individual boiler fuels for B003:

For emissions units B001 and B002, C_m equals the following:

- a. 0.37 lb NO_x/mmBtu (all oils)
0.10 lb NO_x/mmBtu of natural gas/propane
- b. 1.60 lb SO₂/mmBtu (all oils)
0.001 lb SO₂/mmBtu of natural gas/propane

For emission unit B003, C_n equals the following:

- c. 0.22 lb NO_x/mmBtu (all oils)
0.05 lb NO_x/mmBtu of natural gas
- d. 0.56 lb SO₂/mmBtu (all oils)
0.001 lb SO₂/mmBtu of natural gas

Emission factors other than those indicated above may be used with prior approval from the Ohio EPA, Northwest District Office.
[OAC 3745-77-07(A)(1) and PTI P0105938]

d) **Monitoring and/or Recordkeeping Requirements**

- (1) Prior to the installation of the COMS, the permittee shall submit information detailing the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix B, Performance Specification 1. The Ohio EPA, Central Office shall approve the proposed sampling site and certify that the COMS meets the requirements of Performance Specification 1. Once received, the letter /document of certification shall be maintained on-site and shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon request.

Note: The permittee has received certification of the COMS as effective March 4, 2009 (per letter from Enforcement Section staff, Division of Air Pollution Control, Central Office).

Each COMS consists of all the equipment used to acquire and record data in units of all applicable standard(s), and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data processing hardware and software.
[OAC 3745-77-07(C)(1), PTI P0105938, 40 CFR 60.13 and 40 CFR Part 60, Appendix B]

- (2) Within 60 days of the effective date of this permit or modification to the system, the permittee shall install, operate, and maintain a COMS to continuously monitor and record the opacity of the particulate emissions from this emissions unit. The continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.

The permittee shall maintain records of data obtained by the continuous opacity monitoring system including, but not limited to:

- a. percent opacity on an instantaneous (one-minute) and 6-minute block average basis;
- b. results of daily zero/span calibration checks and the magnitude of manual calibration adjustments;
- c. hours of operation of the emissions unit, continuous opacity monitoring system, and control equipment;
- d. the date, time, and hours of operation of the emissions unit without the control equipment and/or the continuous opacity monitoring system (such as during natural gas firing);
- e. the date, time, and hours of operation of the emissions unit during any malfunction of the control equipment and/or the continuous opacity monitoring system; as well as,



f. the reason (if known) and the corrective actions taken (if any) for each such event in (d) and (e).

[OAC 3745-77-07(C)(1) and PTI P0105938, 40 CFR 60.13 and 40 CFR Part 60, Appendix B]

(3) For each day during which the permittee burns a fuel other than natural gas, residual oils, a mixture of No. 2 fuel oil and residual oils, or a mixture of residual oils in this emissions unit the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

[OAC 3745-77-07(C)(1) and PTI P0105938]

(4) The permittee shall comply with all requirements of the written site-specific testing and monitoring plan [see b)(2)f] as approved by the Ohio EPA, or a mixture of residual oils, and retain all records in accordance with the provisions of Section A - Standard Terms and Conditions of this permit.

[OAC 3745-77-07(C)(1) and PTI P0105938]

(5) The permittee shall maintain monthly records of the following information for emissions units B001, B002, and B003:

a. the heat input for each individual fuel burned in emissions units B001 and B002 combined, in mmBtu;

b. the heat input of each individual fuel burned in emissions unit B003, in mmBtu;

c. the total NOx emissions from each fuel burned in emissions units B001 and B002, calculated as follows:

EN = [(Un)(Cn)(1ton/2000 lbs)]

EN = NOx emissions from an individual fuel burned, in tons

Un = total heat input (mmBtu) of the individual fuel - natural gas, No. 2 fuel oil, No. 6 fuel oil, biofuel

Cn = emission factor for the individual fuel in lbs NOx /mmBtu [see c)(3)a and b]

d. The total NOx emission rate of all fuels burned in emissions units B001 and B002, in tons/month, calculated as follows:

EMN = E1 + E2 + E3 +... +En

where:

EMN = Monthly NOx emissions, in tons/month; and,

En = NOx emissions from each individual fuel, in tons [i.e. d)(5)c].

e. the total NOx emissions from each fuel burned in emissions unit B003, calculated as follows:

$$E_N = [(U_n)(C_n)(1\text{ton}/2000 \text{ lbs})]$$

E_N = NO_x emissions from an individual fuel, in tons

U_n = total heat input for B003, in mmBtu, for each individual fuel type: natural gas, residual oils, a mixture of No. 2 fuel oil and residual oils, a mixture of residual oils;

C_n = emission factor for the individual fuel in lbs NO_x /mmBtu [see c)(3)c and d]

- f. The total NO_x emission rate of all fuels burned in emissions unit B003, in tons/month, calculated as follows:

$$EM_N = E_1 + E_2 + E_3 + \dots + E_n$$

where:

EM_N = Monthly NO_x emissions, in tons/month; and,

E_n = NO_x emissions from each individual fuel burned [i.e. d)(5)e].

- g. The total NO_x emission rate of all fuels burned in emissions units B001, B002, and B003, combined, in tons/month, calculated as:

$$ET_N = [\text{the sum of } EM_N \text{ from both d)(5)d and d)(5)f}]$$

- h. The rolling, 12-month NO_x emission rate of all fuels burned in emissions units B001, B002, and B003, combined, calculated as follows:

$$ET-12_N = ET_1 + ET_2 + ET_3 + \dots + ET_{12}$$

where:

$ET-12_N$ = Annual NO_x emissions (tons) as summed from the previous 12 months of monthly NO_x emissions;

ET = Monthly NO_x emissions in tons/month [i.e. d)(5)g for each month]

- i. the total SO₂ emissions from each fuel burned in emissions units B001 and B002, calculated as follows:

$$E_S = [(U_n)(C_n)(1\text{ton}/2000 \text{ lbs})]$$

E_S = NO_x emissions from an individual fuel burned, in tons

U_n = total heat input (mmBtu) of the individual fuel - natural gas, No. 2 fuel oil, No. 6 fuel oil, biofuel

C_n = emission factor for the individual fuel in lbs SO₂ /mmBtu [see c)(3)a and b]

- j. The total SO₂ emission rate of all fuels burned in emissions units B001 and B002, in tons/month, calculated as follows:

$$EM_S = E_1 + E_2 + E_3 + \dots + E_n$$

where:

EM_S = Monthly SO₂ emissions, in tons/month; and,

E_n = SO₂ emissions from each individual fuel, in tons [i.e. d)(5)i].

- k. the total SO₂ emissions from each fuel burned in emissions unit B003, calculated as follows:

$$E_S = [(U_n)(C_n)(1 \text{ ton}/2000 \text{ lbs})]$$

E_N = SO₂ emissions from an individual fuel, in tons

U_n = total heat input for B003, in mmBtu, for each individual fuel type: natural gas, residual oils, a mixture of No. 2 fuel oil and residual oils, a mixture of residual oils;

C_n = emission factor for the individual fuel in lbs SO₂ /mmBtu [see c)(3)c and d]

- l. The total SO₂ emission rate of all fuels burned in emissions unit B003, in tons/month, calculated as follows:

$$EM_S = E_1 + E_2 + E_3 + \dots + E_n$$

where:

EM_S = Monthly SO₂ emissions, in tons/month; and,

E_n = SO₂ emissions from each individual fuel burned [i.e. d)(5)k].

- m. The total SO₂ emission rate of all fuels burned in emissions units B001, B002, and B003, combined, in tons/month, calculated as:

$$ET_S = [\text{the sum of } EM_S \text{ from both d)(5)j and d)(5)l}]$$

- n. The rolling, 12-month SO₂ emission rate of all fuels burned in emissions units B001, B002, and B003, combined, calculated as follows:

$$ET-12_S = ET_1 + ET_2 + ET_3 + \dots + ET_{12}$$

where:

ET-12_S = Annual SO₂ emissions (tons) as summed from the previous 12 months of monthly SO₂ emissions;

ET = Monthly SO₂ emissions in tons/month [i.e. d)(5)m for each month]
[OAC 3745-77-07(C)(1) and PTI P0105938]

e) Reporting Requirements

- (1) The permittee shall comply with the following quarterly reporting requirements for the emissions unit and its continuous opacity monitoring system:
 - a. Pursuant to the monitoring, record keeping, and reporting requirements for COMS contained in 40 CFR Parts 60.7 and 60.13(h) and the requirements established in this permit, the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency, documenting all instances of opacity values in excess of any limitation specified in this permit, 40 CFR Part 60, OAC rule 3745-17-07, and any other applicable rules or regulations. The report shall document the date, commencement and completion times, duration, and magnitude (percent opacity) of each 6-minute block average exceeding the applicable opacity limitation(s), as well as, the reason (if known) and the corrective actions taken (if any) for each exceedance.
 - b. These quarterly reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall include the following:
 - i. the facility name and address;
 - ii. the manufacturer and model number of the continuous opacity monitor;
 - iii. a description of any change in the equipment that comprises the COMS, including any change to the hardware, changes to the software that may affect COMS readings, and/or changes in the location of the COMS sample probe;
 - iv. the excess emissions report (EER)*, i.e., a summary of any exceedances during the calendar quarter, as specified above;
 - v. the total operating time (hours) of the emissions unit;
 - vi. the total operating time of the continuous opacity monitoring system while the emissions unit was in operation;
 - vii. the date, time, and duration of any/each malfunction** of the continuous opacity monitoring system, emissions unit, and/or control equipment;
 - viii. the date, time, and duration of any downtime** of the continuous opacity monitoring system and/or control equipment while the emissions unit was in operation; and
 - ix. the reason (if known) and the corrective actions taken (if any) for each event in (b)(vii) and (viii).

Each report shall address the operations conducted and data obtained during the previous calendar quarter. The reports shall be submitted electronically through Ohio EPA Air Services.

* where no exceedance of the opacity limit has occurred or the continuous monitoring system(s) has/have not been inoperative, repaired, or adjusted during the calendar quarter, such information shall be documented in the quarterly EER report

** each downtime and malfunction event shall be reported regardless if there is an exceedance of the opacity limit

The reports shall be submitted electronically through Ohio EPA Air Services.
[OAC 3745-77-07(C)(1), PTI P0105938, and 40 CFR 60.7]

- (2) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas, a mixture of No. 2 fuel oil and residual oils, or a mixture of residual oils was combusted in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs. The reports shall be submitted electronically through Ohio EPA Air Services.

[OAC 3745-77-07(C)(1) and PTI P0105938]

- (3) The permittee shall submit deviation (excursion) reports that identify all exceedances of the following:

- a. the rolling, 12-month SO₂ limitation of 246.0 tons;
- b. the rolling, 12-month NO_x limitation of 246.0 tons;
- c. the fuel usage restrictions, based on the calculations specified in c)(3), for summing the NO_x and SO₂ rolling, 12-month emissions;
- d. the 0.5%, by weight, sulfur content restriction; and
- e. the 0.56 lb SO₂ per mmBtu heat input emission limitation.

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations occurred during the quarter.

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).

[OAC 3745-77-07(C)(1) and PTI P0105938]

f) **Testing Requirements**

- (1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following method(s):

- a. Emission Limitations: (Short term limitations when burning natural gas)
0.084 lb CO per mmBtu
0.10 lb NO_x per mmBtu
0.01 lb OC per mmBtu
0.0076 lb PM₁₀ per mmBtu

Applicable Compliance Method:

Compliance with the short-term emission limitation for CO shall be demonstrated by dividing an emission factor of 84 lbs CO /mmcf (AP-42 Section 1.4, Natural Gas Combustion Table 1.4-1 [7/98]) by a natural gas heat content of 1000 Btu/cf. If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1-4, and 10 of 40 CFR, Part 60, Appendix A.

Compliance with the short-term emission limitation for OC shall be demonstrated by dividing an emission factor of 11 lbs TOC /mmcf (AP-42 Section 1.4, Natural Gas Combustion Table 1.4-2 [7/98]) by a natural gas heat content of 1000 Btu/cf. If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1-4, and 18, 25, and/or 25A, of 40 CFR, Part 60, Appendix A.

Compliance with the short-term emission limitation for PM₁₀ shall be demonstrated by dividing an emission factor of 7.6 lbs PM₁₀ /mmcf (AP-42 Section 1.4, Natural Gas Combustion Table 1.4-2 [7/98]) by a natural gas heat content of 1000 Btu/cf. If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1-4 of 40 CFR Part 60, Appendix A, and 201/201A and 202 of 40 CFR Part 51, Appendix M.
[OAC 3745-77-07(C)(1) and PTI P0105938]

- b. Emission Limitations: (Short-term limits for burning oils)
0.04 lb CO per mmBtu
0.56 lb SO₂ per mmBtu
0.21* lb PM₁₀ /mmBtu (* except for only No. 2 fuel oil)

Applicable Compliance Method:

Compliance with the short-term emission limitation for CO shall be demonstrated by dividing an emission factor of 5 lbs of CO /1000 gallons (AP-42 Section 1.3, Fuel Oil Combustion, Table 1.3-1 [9/98]) by a worst-case fuel oil heat content of 0.132 mmBtu/gal. If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1-4, and 10 of 40 CFR, Part 60, Appendix A.

Compliance with the short-term SO₂ emission limitation shall be demonstrated by the site-specific testing and monitoring plan required in b)(2)f.

Compliance with the short-term emission limitations for PM₁₀ and NO_x has been demonstrated by emissions testing conducted on February 26, 2009.
[OAC 3745-77-07(C)(1) and PTI P0105938]

- c. Emission Limitations: (for firing only No. 2 fuel oil)
0.020 lb PE /mmBtu

Applicable Compliance Method:

The permittee may demonstrate compliance with the PE limitation above by dividing the emission factor, from AP-42, Table 1.3-1 (revised 09/98), of 2 lbs PE/1000 gallons by the heat content of the No. 2 fuel oil (140,000 Btu/gallon).

If required, the permittee shall demonstrate compliance by testing in accordance with OAC rule 3745-17-03(B)(10).

[OAC 3745-77-07(C)(1) and PTI P0105938]

- d. Emission Limitations: (for firing only No. 2 fuel oil)
0.017 lb PM₁₀ /mmBtu

Applicable Compliance Method:

The permittee may demonstrate compliance with the PE limitation above by dividing the sum of the emission factors, from AP-42, Table 1.3-1 (revised 09/98), of 1.08 lbs PM₁₀ /1000 gallons (filterable), and from AP-42, Table 1.3-2 (revised 09/98), of 1.3 lbs PM₁₀ /1000 gallons (total condensable) by the heat content of the No. 2 fuel oil (140,000 Btu/gallon).

If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1-5 of 40 CFR, Part 60, Appendix A.

[OAC 3745-77-07(C)(1) and PTI P0105938]

- e. Emission Limitations: [for firing oils /biofuels]
0.31 lb PE /mmBtu

Applicable Compliance Method:

The permittee may demonstrate compliance with the PE limitation above by dividing the emission factor, from AP-42, Table 1.3-1 (revised 09/98), of 10 lbs PE/1000 gallons by the heat content of the No. 6 fuel oil (150,000 Btu/gallon).

If required, the permittee shall demonstrate compliance by testing in accordance with OAC rule 3745-17-03(B)(10).

[OAC 3745-77-07(C)(1) and PTI P0105938]

- f. Emission Limitations: (Long-term emission limitations for burning any fuel)
80.5 tons PM₁₀ /year;
32.2 tons CO /year;
3.83 tons OC /year

Applicable Compliance Method:

The annual emission limitations were established by multiplying the short-term emission limitations of 0.21 lb PM₁₀ per mmBtu, 0.04 lb CO per mmBtu, and 0.01 lb OC per mmBtu, a maximum heat input capacity of 87.5 mmBtu/hr, a maximum operating schedule of 8760 hrs/yr and dividing by 2,000 lbs per ton. Therefore provided compliance is shown with the short-term limitations, compliance with the ton/yr limitations shall also be demonstrated.

[OAC 3745-77-07(C)(1) and PTI P0105938]

- g. Emission Limitation:
246 tons of NO_x per rolling 12-month period
- Applicable Compliance Method:
Compliance with the above emission limitation shall be demonstrated through monitoring and record keeping requirements in d)(5).
[OAC 3745-77-07(C)(1) and PTI P0105938]
- h. Emission Limitation:
246 tons of SO₂ per rolling, 12-month period
- Applicable Compliance Method:
Compliance with the above emission limitation shall be demonstrated through monitoring and record keeping requirements in d)(5).
[OAC 3745-77-07(C)(1) and PTI P0105938]
- i. Emission Limitation:
0.10 lb NO_x per mmBtu
0.23 lb NO_x per mmBtu
- Applicable Compliance Method:
Compliance with the limitation for natural gas shall be demonstrated by dividing an emission factor of 50 lbs NO_x /mmcf (AP-42 Section 1.4, Natural Gas Combustion Table 1.4-1 [7/98] -low-NO_x burners) by a natural gas heat content of 1000 Btu/cf. If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1-4, and 7 of 40 CFR, Part 60, Appendix A.
- The limitation for oils / biofuel was established from the manufacturer's guarantee for low-NO_x burners. If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1-4, and 7 of 40 CFR, Part 60, Appendix A.
[OAC 3745-77-07(C)(1) and PTI P0105938]
- j. Emission Limitation:
20% opacity, as a six-minute average [See b)(2)b.]
- Applicable Compliance Method:
Compliance shall be demonstrated by the COMS monitoring requirements in d)(2).
[OAC 3745-77-07(C)(1) and PTI P0105938]
- k. Emission Limitation:
The sulfur content of any oil (residual oils, a mixture of No. 2 fuel oil and residual oils, or a mixture of residual oils) combusted in this emissions unit shall not exceed 0.5 weight percent.
- Applicable Compliance Method:
Compliance with the short-term SO₂ emission limitation shall be demonstrated by the site-specific testing and monitoring plan required in b)(2)f).
[OAC 3745-77-07(C)(1) and PTI P0105938]

Effective Date: To be entered upon final issuance

- (2) Ongoing compliance with the opacity limitation contained in this permit, 40 CFR Part 60, and any other applicable standard(s) shall be demonstrated through the data collected as required in the Monitoring and Record keeping Section of this permit.
[OAC 3745-77-07(C)(1), PTI P0105938, 40 CFR 60.13 and 40 CFR Part 60, Appendix B]

g) **Miscellaneous Requirements**

- (1) This emissions unit is subject to Subpart Dc of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.



2. P026, Rotary Dryer

Operations, Property and/or Equipment Description:

Steam Tube Rotary Dryer (Feathers) 1.05 ton/hr maximum dehydrated product

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 03-16083 issued April 15, 2004)	5.25 lbs particulate emissions (PE) /hr, 23.0 tons PE /yr Visible PE shall not exceed 20 percent opacity, as a six-minute average.
b.	OAC rule 3745-17-11(B)(2)	See b)(2)a.
c.	OAC rule 3745-17-07(A)	See b)(2)b.

(2) Additional Terms and Conditions

a. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs / hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table 1 does not apply because the facility is located in Auglaize County.

b. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because OAC rule 3745-17-11 is not applicable.

c. The 5.25 lbs PE/hr and 23.0 tons PE/year emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop any additional monitoring, record keeping or reporting requirements to ensure compliance with these emission limitations.

c) Operational Restrictions

(1) None.



d) Monitoring and/or Recordkeeping Requirements

(1) None.

e) Reporting Requirements

(1) None.

f) Testing Requirements

(1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following method(s):

a. Emission Limitations:

5.25 lb PE /hr
23.0 tons PE /yr

Applicable Compliance Method:

The hourly allowable PE emission limitation was established based on a maximum throughput rate of 1.05 tons per hour feather meal (dry basis) multiplied by an emission factor of 5.0 lb PE /ton (AP-42, Section 9.13.1-1, revised 01/95).

The annual allowable PE limitation was developed by multiplying the hourly limitation by 8760, and then dividing by 2000. Therefore, as long as compliance with the hourly limitation is shown, compliance with the annual limitation shall also be demonstrated.

[OAC 3745-77-07(C)(1) and PTI 03-16083]

b. Emission Limitation:

Visible PE shall not exceed 20 percent opacity, as a six-minute average.

Applicable Compliance Method:

If required, compliance shall be determined in accordance with the test method and procedures specified in Method 9 of 40 CFR Part 60, Appendix A.

[OAC 3745-77-07(C)(1) and PTI 03-16083]

g) Miscellaneous Requirements

None.



3. Emissions Unit Group -Boilers - existing units: B001, B002,

EU ID	Operations, Property and/or Equipment Description
B001	Boiler No. 1: 30.0 mmBtu/hr boiler - No. 2 fuel oil, No. 6 fuel oil, natural gas, biofuel (organic oils and greases) and/or propane fired.
B002	Boiler No. 2: 72.0 mmBtu/hr boiler - No. 2 fuel oil, No. 6 fuel oil, natural gas, biofuel (organic oils and greases) and/or propane fired.

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(D) (PTI 03-17366 issued June 12, 2008)	246 tons nitrogen oxides (NO _x) per rolling 12-month period 246 tons SO ₂ per rolling 12-month period See b)(2)a.
b.	OAC rule 3745-17-07(A)(1)	Visible PE shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule.
c.	OAC rule 3745-18-06(D)	1.6 lbs sulfur dioxide (SO ₂) /mmBtu of actual heat input, when firing oils /biofuels
d.	OAC rule 3745-17-10(B)(1)	0.020 lb PE /mmBtu of heat input (when firing excludes residual oils /biofuels)
e.	OAC rule 3745-17-10(C)(2)	0.31 lb PE /mmBtu of heat input [when firing includes residual oils /biofuels]

(2) Additional Terms and Conditions

a. Annual emissions shall not exceed the following, based upon a rolling, 12-month summation of the monthly emissions (for emissions units B001, B002 and B003, combined):

i. 246.0 tons of SO₂/ year; and

ii. 246.0 tons of NO_x /year.

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The emission limitations are based on fuel usage restrictions [see c)(2)] for the purpose of establishing federally enforceable limitations for "Prevention of Significant Deterioration" (PSD) Potential to Emit (PTE) under the Major Source threshold.

- b. The permittee shall operate according to the written site-specific testing and monitoring plan to address the combustion of residual oils and mixtures of residual oils in emissions units B001, B002, and B003. The plan shall include fuel sampling procedures, testing, analyses, etc. for purposes of obtaining sulfur and heat content information to used to demonstrate compliance with the requirements: for emissions unit B003, the sulfur content of any oil (residual oils, a mixture of No. 2 fuel oil and residual oils, or a mixture of residual oils) shall not exceed 0.5 weight percent and 0.56 lb SO₂ /mmBtu heat input [See c)(1) and c)(2)d].

This plan was submitted to and approved by the Ohio EPA under the provisions of Permit to Install 03-17366.

c) Operational Restrictions

- (1) The permittee shall only burn natural gas, residual oils, a mixture of No. 2 fuel oil and residual oils, or a mixture of residual oils in this emissions unit:

Residual oils combusted in this emissions unit shall only be crude oil, fuel oil that does not comply with the specifications under the definition of "distillate oil," and all fuel oil numbers four, five, or six, as defined by ASTM D396-05, "Standard Specification for Fuel Oils."

It should be noted that some of the residual oils used will involve various organic oils and greases produced on site from the rendering process that meet the standards for yellow grease as defined in the Fats and Proteins Research Foundation, Inc. publication #306, "Animal Fats and Recycled Cooking Oils - Alternatives as Burner Fuels" from March 2001.

[OAC 3745-18-06(D) and OAC 3745-77-07(A)(1)]

- (2) The maximum rolling, 12-month quantity of fuel burned in emissions units B001, B002, and B003, combined, shall be limited by the following equation. The criteria of the limiting equation must be met for both NO_x and SO₂ (meaning the calculated results for NO_x must not exceed 246 tons and the results for SO₂ must not exceed 246 tons)

$$\sum_{M=1}^{12} \sum_n [\{ (U_m)(C_m) + (U_n)(C_n) \} (1 \text{ ton} / 2000 \text{ lbs})] \leq 246$$

where:

M = the increment of the rolling, 12-month period;

m = the increment of the heat input during the period for emissions units B001 and B002;

n = the increment of the heat input during the period for emissions unit B003;

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U_m = total heat input for B001 and B002, in mmBtu, for each individual fuel type: natural gas, propane, No. 2 fuel oil, residual oils, a mixture of No. 2 fuel oil and residual oils, a mixture of residual oils;

U_n = total heat input for B003, in mmBtu, for each individual fuel type: natural gas, residual oils, a mixture of No. 2 fuel oil and residual oils, a mixture of residual oils;

C_m = emission factor for individual boiler fuels for B001 and B002:

C_n = emission factor for individual boiler fuels for B003:

For emissions units B001 and B002, C_m equals the following:

- a. 0.37 lb NO_x /mmBtu (all oils)
0.10 lb NO_x /mmBtu of natural gas/propane
- b. 1.60 lb SO_2 /mmBtu (all oils)
0.001 lb SO_2 /mmBtu of natural gas/propane

For emission unit B003, C_n equals the following:

- c. 0.22 lb NO_x /mmBtu (all oils)
0.05 lb NO_x /mmBtu of natural gas
- d. 0.56 lb SO_2 /mmBtu (all oils)
0.001 lb SO_2 /mmBtu of natural gas

Emission factors other than those indicated above may be used with prior approval from the Ohio EPA, Northwest District Office.

[OAC 3745-77-07(A)(1) and PTI 03-17366]

d) **Monitoring and/or Recordkeeping Requirements**

- (1) For each day during which the permittee burns a fuel other than natural gas, residual oils, a mixture of No. 2 fuel oil and residual oils, or a mixture of residual oils in this emissions unit the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
[OAC 3745-77-07(C)(1) and PTI 03-17366]
- (2) The permittee shall comply with all requirements of the written site-specific testing and monitoring plan [see b)(2)b] as approved by the Ohio EPA, or a mixture of residual oils, and retain all records in accordance with the provisions of Section A - Standard Terms and Conditions of this permit.
[OAC 3745-77-07(C)(1) and PTI 03-17366]
- (3) The permittee shall maintain monthly records of the following information for emissions units B001, B002, and B003:
 - a. the heat input for each individual fuel burned in emissions units B001 and B002 combined, in mmBtu;
 - b. the heat input of each individual fuel burned in emissions unit B003, in mmBtu;

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- c. the total NO_x emissions from each fuel burned in emissions units B001 and B002, calculated as follows:

$$E_N = [(U_n)(C_n)(1\text{ton}/2000 \text{ lbs})]$$

E_N = NO_x emissions from an individual fuel burned, in tons

U_n = total heat input (mmBtu) of the individual fuel - natural gas, No. 2 fuel oil, No. 6 fuel oil, biofuel

C_n = emission factor for the individual fuel in lbs NO_x /mmBtu [see c)(2)a and b]

- d. The total NO_x emission rate of all fuels burned in emissions units B001 and B002, in tons/month, calculated as follows:

$$EM_N = E_1 + E_2 + E_3 + \dots + E_n$$

where:

EM_N = Monthly NO_x emissions, in tons/month; and,

E_n = NO_x emissions from each individual fuel, in tons [i.e. d)(3)c].

- e. the total NO_x emissions from each fuel burned in emissions unit B003, calculated as follows:

$$E_N = [(U_n)(C_n)(1\text{ton}/2000 \text{ lbs})]$$

E_N = NO_x emissions from an individual fuel, in tons

U_n = total heat input for B003, in mmBtu, for each individual fuel type: natural gas, residual oils, a mixture of No. 2 fuel oil and residual oils, a mixture of residual oils;

C_n = emission factor for the individual fuel in lbs NO_x /mmBtu [see c)(2)c and d]

- f. The total NO_x emission rate of all fuels burned in emissions unit B003, in tons/month, calculated as follows:

$$EM_N = E_1 + E_2 + E_3 + \dots + E_n$$

where:

EM_N = Monthly NO_x emissions, in tons/month; and,

E_n = NO_x emissions from each individual fuel burned [i.e. d)(3)e].

- g. The total NO_x emission rate of all fuels burned in emissions units B001, B002, and B003, combined, in tons/month, calculated as:

$$ET_N = [\text{the sum of } EM_N \text{ from both d)(3)d and d)(3)f}]$$

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- h. The rolling, 12-month NO_x emission rate of all fuels burned in emissions units B001, B002, and B003, combined, calculated as follows:

$$ET-12_N = ET_1 + ET_2 + ET_3 + \dots + ET_{12}$$

where:

ET-12_N = Annual NO_x emissions (tons) as summed from the previous 12 months of monthly NO_x emissions;

ET = Monthly NO_x emissions in tons/month [i.e. d)(3)g for each month]

- i. the total SO₂ emissions from each fuel burned in emissions units B001 and B002, calculated as follows:

$$E_s = [(U_n)(C_n)(1\text{ton}/2000\text{ lbs})]$$

E_s = NO_x emissions from an individual fuel burned, in tons

U_n = total heat input (mmBtu) of the individual fuel - natural gas, No. 2 fuel oil, No. 6 fuel oil, biofuel

C_n = emission factor for the individual fuel in lbs SO₂ /mmBtu [see c)(2)a and b]

- j. The total SO₂ emission rate of all fuels burned in emissions units B001 and B002, in tons/month, calculated as follows:

$$EM_s = E_1 + E_2 + E_3 + \dots + E_n$$

where:

EM_s = Monthly SO₂ emissions, in tons/month; and,

E_n = SO₂ emissions from each individual fuel, in tons [i.e. d)(3)i].

- k. the total SO₂ emissions from each fuel burned in emissions unit B003, calculated as follows:

$$E_s = [(U_n)(C_n)(1\text{ton}/2000\text{ lbs})]$$

E_N = SO₂ emissions from an individual fuel, in tons

U_n = total heat input for B003, in mmBtu, for each individual fuel type: natural gas, residual oils, a mixture of No. 2 fuel oil and residual oils, a mixture of residual oils;

C_n = emission factor for the individual fuel in lbs SO₂ /mmBtu [see c)(2)c and d]

- l. The total SO₂ emission rate of all fuels burned in emissions unit B003, in tons/month, calculated as follows:

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$$EM_S = E_1 + E_2 + E_3 + \dots + E_n$$

where:

EM_S = Monthly SO_2 emissions, in tons/month; and,

E_n = SO_2 emissions from each individual fuel burned [i.e. d)(3)k].

- m. The total SO_2 emission rate of all fuels burned in emissions units B001, B002, and B003, combined, in tons/month, calculated as:

$$ET_S = [\text{the sum of } EM_S \text{ from both d)(3)j and d)(3)l}]$$

- n. The rolling, 12-month SO_2 emission rate of all fuels burned in emissions units B001, B002, and B003, combined, calculated as follows:

$$ET-12_S = ET_1 + ET_2 + ET_3 + \dots + ET_{12}$$

where:

$ET-12_S$ = Annual SO_2 emissions (tons) as summed from the previous 12 months of monthly SO_2 emissions;

ET = Monthly SO_2 emissions in tons/month [i.e. d)(3)m for each month]
[OAC 3745-77-07(C)(1) and PTI 03-17366]

- (4) On any day when firing includes residual oils /biofuels, the permittee shall perform checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emission incident; and
- e. any corrective actions taken to eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission 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.

[OAC 3745-77-07(C)(1) and PTI 03-17366]

e) Reporting Requirements

(1) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas, a mixture of No. 2 fuel oil and residual oils, or a mixture of residual oils was combusted in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs. The reports shall be submitted electronically through Ohio EPA Air Services.

[OAC 3745-77-07(C)(1) and PTI 03-17366]

(2) The permittee shall submit semiannual written reports that (a) identify all days during which any abnormal visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the abnormal visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period. The reports shall be submitted electronically through Ohio EPA Air Services.

[OAC 3745-77-07(C)(1) and PTI 03-17366]

(3) The permittee shall submit deviation (excursion) reports that identify all exceedances of the following:

a. the rolling, 12-month SO₂ limitation of 246.0 tons;

b. the rolling, 12-month NO_x limitation of 246.0 tons; and

c. the fuel usage restrictions, based on the calculations specified in c)(2), for summing the NO_x and SO₂ rolling, 12-month emissions.

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations occurred during the quarter.

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).

[OAC 3745-77-07(C)(1) and PTI 03-17366]

f) Testing Requirements

(1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following method(s):

a. Emission Limitations: (when firing excludes residual oils /biofuels)
0.020 lb PE /mmBtu

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Applicable Compliance Method:

The permittee may demonstrate compliance with the PE limitation above by dividing the emission factor, from AP-42, Table 1.3-1 (revised 09/98), of 2 lbs PE/1000 gallons by the heat content of the No. 2 fuel oil (140,000 Btu/gallon).

If required, the permittee shall demonstrate compliance by testing in accordance with OAC rule 3745-17-03(B)(10).

[OAC 3745-77-07(C)(1) and PTI 03-17366]

- b. Emission Limitations: (when firing includes residual oils /biofuels)
0.31 lb PE /mmBtu

Applicable Compliance Method:

The permittee may demonstrate compliance with the PE limitation above by dividing the emission factor, from AP-42, Table 1.3-1 (revised 09/98), of 10 lbs PE/1000 gallons by the heat content of the No. 6 fuel oil (150,000 Btu/gallon).

If required, the permittee shall demonstrate compliance by testing in accordance with OAC rule 3745-17-03(B)(10).

[OAC 3745-77-07(C)(1) and PTI 03-17366]

- c. Emission Limitation:
246 tons of NO_x per rolling 12-month period

Applicable Compliance Method:

Compliance with the above emission limitation shall be demonstrated through monitoring and record keeping requirements in d)(3).

[OAC 3745-77-07(C)(1) and PTI 03-17366]

- d. Emission Limitation:
246 tons of SO₂ per rolling, 12-month period

Applicable Compliance Method:

Compliance with the above emission limitation shall be demonstrated through monitoring and record keeping requirements in d)(3).

[OAC 3745-77-07(C)(1) and PTI 03-17366]

- e. Emission Limitation:
Visible PE shall not exceed 20 percent opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1).

[OAC 3745-77-07(C)(1) and PTI 03-17366]

- f. Emission Limitation:
1.6 lbs sulfur dioxide (SO₂) /mmBtu of actual heat input, when firing oils /biofuels

Effective Date: To be entered upon final issuance

Applicable Compliance Method:

Compliance with the lb/mmBtu SO₂ emission limitation shall be demonstrated by the site-specific testing and monitoring plan required in b)(2)b.

[OAC 3745-77-07(C)(1) and PTI 03-17366]

g) Miscellaneous Requirements

(1) None.

a)