Ohio Environmental Protection Agency

John R. Kasich, Governor
Mary Taylor, Lt. Governor
Craig W. Butler, Director

11/5/2015

Certified Mail

Philip Utrecht
Ford Motor Company
3000 Sharon Road
Sharonville, OH 45241

Facility ID: 1431140861
Permit Number: P0118978
County: Hamilton

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 Environmental Protection Agency (EPA) Weekly Review and the local newspaper, The Cincinnati Enquirer. 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 "Search for Permits" link under the Permitting topic on the Programs tab. 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

Southwest Ohio Air Quality Agency
250 William Howard Taft Rd.
Cincinnati, OH 45219

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 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 Southwest Ohio Air Quality Agency at (513)946-7777.

Sincerely,

Michael E. Hopkins,P.E
Assistant Chief, Permitting Section, DAPC

Cc: U.S. EPA Region 5 - *Via E-Mail Notification*
SWOAQA; Indiana; Kentucky

PUBLIC NOTICE

The following matters are the subject of this public notice by the Ohio Environmental Protection Agency. The complete public notice, including any additional instructions for submitting comments, requesting information, a public hearing, or filing an appeal may be obtained at:http://epa.ohio.gov/actions.aspx or Hearing Clerk, Ohio EPA, 50 W. Town St., Columbus, Ohio 43215. Ph: 614-644-2129 email:HClerk@epa.ohio.gov

Draft Title V Permit Renewal
Ford Motor Company
3000 Sharon Road, , Cincinnati, OH 45241
ID#: P0118978
Date of Action: 11/5/2015
PermitDesc: Title V Renewal permit for automotive parts and transmissions manufacturing facility, including gas/oil-fired boilers and machining operations..
The permit and complete instructions for requesting information or submitting comments may be obtained at: http://epa.ohio.gov/dapc/permitsonline.aspx by entering the ID # or: Bonnie Pray, Southwest Ohio Air Quality Agency, 250 William Howard Taft Rd., Cincinnati, OH 45219. Ph: (513)946-7777

Statement of Basis For Air Pollution Title V Permit

Facility ID:	1431140861
Facility Name:	Ford Motor Company
Facility Description:	Production of various automobile parts and transmission cases
Facility Address:	3000 Sharon Road, Cincinnati, OH 45241
Permit #:	P0118978, Renewal

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

☐ Lead ☒ Sulfur Dioxide ☒ Carbon Monoxide ☒ Volatile Organic Compounds ☒ Nitrogen Oxides
☐ Particulate Matter 10 microns ☐ Single Hazardous Air Pollutant ☐ Combined Hazardous Air Pollutants
☐ Maximum Available Control Technology Standard(s) ☐ GHG ☐ Title IV

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. The insignificant emissions units (IEUs) that have applicable state and/or federally-enforceable requirements are included in the terms and conditions in Section B. All other IEUs at this facility are excluded from the requirements to obtain installation or operating permits pursuant to OAC rules 3745-15-05 and 3745-31-03 and have no applicable federally enforceable requirements; therefore, these IEUs are not included in the terms and conditions of this permit pursuant to OAC rule 3745-77-07(A)(13).
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	N/A

document that qualify as a significant permit modification per OAC rule 3745-77-08(C)(3)	
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)	This permit renewal action incorporates a Permit to Install (PTI) modification for emissions unit (EU) P174 that occurred since the prior Title V permit. This PTI is included by reference (PTI #) in the specific emissions unit terms and conditions for EU P174 in Section C. of the permit. This renewal also updates the IEU listing at this facility and applicable PTI's issued for these insignificant sources.
Please identify the affected unit(s) and pollutant(s) for which a Compliance Assurance Monitoring (CAM) Plan is required per 40 CFR 64. Provide more emissions unit specific detail in Section C.	N/A. There are no control devices and/or no pre-control device emissions greater than 100 TPY on any emissions unit that would be subject to this rule at this facility.

B. Facility-Wide Terms and Conditions

Term and Condition (paragraph)	Basis		Comments
	SIP (3745-)	Other	
B.2.	77-07(A)(13)	N	Listing of insignificant emissions units that are subject to SIP-approved and/or federal regulations.
B.3.	N	40 CFR Part 63	Clarifying and reference term for rule applicability determination regarding emissions units contained in the permit subject to National Emission Standards for Hazardous Air Pollutants (NESHAP).

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
ENF = did noncompliance issues drive the monitoring requirements?
R = record keeping requirements
Rp = reporting requirements
ET = emission testing requirements (not including compliance method terms)
St = streamlining term used to replace a PTI monitoring, record keeping, or reporting requirement with an equivalent or more stringent requirement
Misc = miscellaneous requirements

EU(s)	Limitation	Basis		ND	OR	M	ENF	R	Rp	ET	St	Misc	Comments
		SIP (3745-)	Other										
P174	PE, PM_{10}, and $PM_{2.5}$ emissions shall not exceed 0.042 ton/month averaged over a 12-month rolling period	N	OAC 3745-31-05(A)(3)	N	N	N	N	N	N	N	N	N	M, R, Rp, ET: The emission limitations are based on the emissions unit's potential to emit at the maximum production rates and permittee-supplied emission factors, assuming 8,760 hours per year operation. If required, stack emissions testing will be conducted using EPA-approved methods. All requirements for this EU have been transferred from the PTI.
P174	OC emissions shall not exceed 0.595 ton/month averaged over a 12-month rolling period	N	OAC 3745-31-05(A)(3)	N	N	N	N	N	N	N	N	N	M, R, Rp, ET: The emission limitations are based on the emissions unit's potential to emit at the maximum production rates and permittee-supplied emission factors, assuming 8,760 hours per year operation. If required, stack emissions testing will be conducted using EPA-approved methods. All requirements for this EU have been transferred from the PTI.
P174	Visible particulate emissions from the stack shall not exceed 20% opacity,	17-07(A)	N	N	N	Y	N	Y	Y	N	N	N	ET: Compliance is demonstrated by visible emissions monitoring and record keeping. If required, compliance shall be demonstrated by Method 9 visible emissions observations.

	as a 6-min average												
P174	PE shall not exceed 3.47 lbs/hour	17-11(B)(1)	N	N	N	N	N	N	N	N	N	N	M, R, Rp, ET: The emission limitation is greater than the emissions unit's potential to emit at the maximum production rate. If required, stack emissions testing will be conducted using EPA-approved methods.
B023 B024	0.33 lb SO_2/MMBtu	N	OAC 3745-31-05(D)	N	Y	Y	N	Y	Y	N	N	N	OR: The emissions units are restricted to burning natural gas and distillate oil with a restricted sulfur content limit. ET: Compliance with emission limitations determined by monitoring, record keeping, and reporting requirements and use of specified fuels. All requirements for the EU have been transferred from the PTI.
B023 B024	0.17 lb NOx/MMBtu when burning oil; 0.14 lb NOx/MMBtu when burning gas	N	OAC 3745-31-05(D)	N	Y	N	N	N	N	N	N	N	OR: Permittee must employ a low NOx burner M, R, Rp, ET: The emission limitations are based on the emissions unit's potential to emit based upon US EPA AP-42 emission factors. If required, stack emissions testing will be conducted using EPA-approved methods. All requirements for the EU have been transferred from the PTI.
B023 B024	0.10 lb CO/MMBtu; 0.006 lb VOC/MMBtu; 0.020 lb/MMBtu PE/PM_{10}	N	OAC 3745-31-05(A)(3)	N	N	N	N	N	N	N	N	N	M, R, Rp, ET: The emission limitations are equivalent to, or greater than, the emissions unit's potential to emit based upon US EPA AP-42 emission factors and the worst case fuel type. If required, stack emissions testing will be conducted using EPA-approved methods. All requirements for the EU have been transferred from the PTI.

B023 B024	21.2 TPY NOx 49.9 TPY SO_2	N	OAC 3745-31-05(D)	N	Y	Y	N	Y	Y	N	N	N	OR: The emissions units are restricted to burning natural gas and distillate oil with a restricted sulfur content limit and must employ a low NOx burner. ET: Compliance with emission limitations determined by monitoring, record keeping, and reporting requirements and use of specified fuels. All requirements for the EU have been transferred from the PTI.
B023 B024	3.0 TPY PE/PM_{10} 0.9 TPY VOC 15.1 TPY CO	N	OAC 3745-31-05(A)(3)	N	N	N	N	N	N	N	N	N	M, R, Rp, ET: The emission limitations are based on the emissions unit's potential to emit using US EPA AP-42 emission factors, assuming 8,760 hours per year operation. If required, stack emissions testing will be conducted using EPA-approved methods. All requirements for the EU have been transferred from the PTI.
B023 B024	Visible particulate emissions shall not exceed 20% opacity as 6 min avg., except for one 6 min period per hour not to exceed 27% when burning oil	N	40 CFR 60, Subpart Dc	N	N	Y	N	Y	Y	Y	N	N	
B002 B003	Visible particulate emissions shall not exceed 20% opacity, as a 6 min avg.	17-07(A)	N	N	Y	Y	N	Y	Y	N	N	N	OR: The emissions units are restricted to burning inherently clean fuel (natural gas and distillate oil). ET: If required, compliance shall be demonstrated by Method 9 visible emissions observations.

B002 B003	0.020 lb PE/MMBtu	17-10(B)(1)	N	N	Y	Y	N	Y	Y	N	N	N	OR: The emissions units are restricted to burning inherently clean fuel (natural gas and distillate oil). The PTE of these fuels is below the emission limitation of 0.020 lb/MMBtu. ET: If required, compliance shall be demonstrated by Method 9 visible emissions observations.
B002 B003	1.7 lbs SO_2/MMBtu	18-37(V)	N	N	Y	Y	N	Y	Y	N	N	N	OR: The emissions units are restricted to burning natural gas and distillate oil with a restricted sulfur content limit. ET: Compliance with emission limitations determined by monitoring, record keeping, and reporting requirements and use of specified fuels.

DRAFT

Division of Air Pollution Control
Title V Permit
for
Ford Motor Company

Facility ID:	1431140861
Permit Number:	P0118978
Permit Type:	Renewal
Issued:	11/5/2015
Effective:	To be entered upon final issuance
Expiration:	To be entered upon final issuance

Ohio Environmental Protection Agency

Division of Air Pollution Control
Title V Permit
for
Ford Motor Company

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Authorization

Facility ID:	1431140861
Facility Description:	Production of various automobile parts and transmission cases
Application Number(s):	A0053119
Permit Number:	P0118978
Permit Description:	Title V Renewal permit for automotive parts and transmissions manufacturing facility, including gas/oil-fired boilers and machining operations.
Permit Type:	Renewal
Issue Date:	11/5/2015
Effective Date:	To be entered upon final issuance
Expiration Date:	To be entered upon final issuance
Superseded Permit Number:	P0099283

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

Ford Motor Company
3000 Sharon Road
Cincinnati, OH 45241

Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Southwest Ohio Air Quality Agency
250 William Howard Taft Rd.
Cincinnati, OH 45219
(513)946-7777

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 Southwest Ohio Air Quality Agency. 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 and no later than 6 months prior to the expiration date.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Craig W. Butler
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 For State-Only Requirements

(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

(5) Standard Term and Condition A. 30.

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

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

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

Written reports of (a) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, (b) the

probable cause of such deviations, and (c) any corrective actions or preventive measures taken, shall be submitted promptly to the Southwest Ohio Air Quality Agency. Except as provided below, the written reports shall be submitted 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 to the Southwest Ohio Air Quality 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." Signature by the Responsible Official may be represented by entry of the personal identification number (PIN) by the Responsible Official as part of the electronic submission process or by the scanned attestation document signed by the Responsible Official that is attached to the electronically submitted written report.

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

(5) Consistent with A.2.c.1. above, reports of any required monitoring and/or record keeping information required to be submitted to Ohio EPA shall be submitted to Southwest Ohio Air Quality Agency unless otherwise specified.

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

3. Reporting of Any Exceedence of a Federally Enforceable Emission Limitation or Control Requirement Resulting From 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) 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 permitexcept as provided pursuant to A.16 below.

c) This permit may be modified, reopened, revoked, or revoked and reissued, for cause, in accordance with 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 ; or

(3) a 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

Officialthat, 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 Southwest Ohio Air Quality 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 Southwest Ohio Air Quality 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 on or before April 30th of each year during the permit term.

(2) Compliance certifications shall include the following:

a. Identification of each term or condition that is the basis of the certification. The identification may include a statement by the Responsible Official that every term and condition that is federally enforceable has been reviewed, and such terms and conditions with which there has been continuous compliance throughout the year are not separately identified.

b. The permittee's current compliance status.

c. Whether compliance was continuous or intermittentconsistent with A.13.d.2.a above.

d. The method(s) used for determining the compliance status of the source currently and over the required reporting period consistent with A.13.d.2.a above.

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 Southwest Ohio Air Quality 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 Southwest Ohio Air Quality 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 Federal Register 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 is subject to 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.

Unless otherwise exempted, noemissions unit identified in this permit that has beencertified 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 operating appliances for maintenance, service, repair, or disposal must comply with the required practices specified in 40 CFR 82.156.

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

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

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

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

The permittee shall submit required reports in the following manner:

a) Reports of any required monitoring and/or record keeping information shall be submitted to theSouthwest Ohio Air Quality 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 Southwest Ohio Air Quality 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 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.)

25. Records Retention RequirementsUnder State Law Only

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

26. 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))

27. Scheduled Maintenance/Malfunction Reporting For State-Only Requirements

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 Southwest Ohio Air Quality 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).

28. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The Southwest Ohio Air Quality Agency must be notified in writing of any transfer of this permit.

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

29. 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 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 potential to emit; or

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

30. Submitting Documents Required by this Permit

All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event ofan alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications, or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the Southwest Ohio Air Quality Agency, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the required application, notification or report is considered to be "submitted" on the date the submission is successful using a valid electronic signature. Signature by the Responsible Official may be represented as provided through procedures established in Air Services.

B. Facility-Wide Terms and Conditions

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

   a) None.

2. The following insignificant emissions units at this facility must comply with all applicable State and federal regulations, as well as any emissions 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, 3745-21, and 3745-31, and/or 40 CFR Part 60 or 63:

B025	10.31 MMBtu/hr gas-fired heater [PBR04750]
B026	10.31 MMBtu/hr gas-fired heater [PBR04751]
B027	12.37 MMBtu/hr gas-fired heater [PBR04752]
P030	Shotblasting Units
P073	Aluminum Transmission Case Machining [PTI 14-05282, 4/30/2002]
P074	Aluminum Transmission Case Machining [PTI 14-05282, 4/30/2002]
P123	Olofsson and Kasper Bores
P183	Bore, grinders, and hones with mist collector MC-N33 [PTI 14-05683, 3/24/2005]
P184	Bore, grinders, and hones with mist collector MC-P33 [PTI 14-05683, 3/24/2005]
P185	Bore, grinders, and hones with mist collector MC-Q32 [PTI 14-05683, 3/24/2005]
P186	Grinder, hones and burnishers with mist collector MC-L29 [PTI 14-05683, 3/24/2005]
P187	Hones and grinders with mist collector MC-M29 [PTI P0119662, 10/28/2015]
P193	4 internal broaches with mist collector MC-J30 [PTI P0119662, 10/28/2015]
P196	Bore, grinders, and hone with mist collector MC-L33 [PTI P0119107, 7/24/2015]
P197	Gear machining process with mist collector [PTI 14-05712, 5/31/2005]
P199	Gear machining operation with mist collector [PTI 14-05725, 6/21/2005]
P200	6 Machining fluid filter systems with mist collector MC-J33 [PTI P0119662, 10/28/2015]
P201	125 kW Emergency Electrical Generator [PBR04753]
P202	125 kW Emergency Electrical Generator [PBR04754]
P203	125 kW Emergency Electrical Generator [PBR04755]
P204	125 kW Emergency Electrical Generator [PBR04756]
P206	Caterpillar 370 HP Oil-Fired Firefighting Water Pump #1 [PBR04758]
P207	Caterpillar 235 HP Oil-Fired Firefighting Water Pump #2 [PBR04759]
P208	Caterpillar 545 HP Oil-Fired Storm Water Pump [PBR04760]
P209	Transmission gear grinding operations connected to mist collector G17 [PTI P0110648, 9/13/2012]
P210	8 Reishaurer grinders and 1 coolant pumpback unit connected to mist collector MC-K11 [PTI P0110648, 9/13/2012]
P231	59 kW Emergency Electrical Generator for Main Guard Gate Operations [PBR10612]
P233	Cummins 14.1 HP Emergency Electrical Generator at Power House

   (Authority for term: OAC rule 3745-77-07(A)(13)

3. The permittee is advised that this facility may be subject to the "Generally Available Control Technology" (GACT) requirements under Title 40 of the Code of Regulations, Part 63, Subpart JJJJJJ, the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers Area Sources. At this time the Ohio EPA is not accepting the delegating

authority to enforce the standards promulgated under the Urban Air Toxics Strategy. The requirements of this rule, that are applicable to the area source(s) (for hazardous air pollutants) identified in this permit, shall be enforceable by U.S. EPA. Region 5. The complete requirements of this Subpart (including the Part 63 General Provisions) may be accessed via the Internet from the Electronic code of Federal Regulations (e-CFR) website http://www.ecfr.gov/ or by contacting the appropriate Ohio EPA District Office or Local Air Agency.

(Authority for term: 40 CFR Part 63)

4. The following abbreviations are used throughout this permit:

NOx = Nitrogen oxides

CO = Carbon monoxide

VOC = Volatile organic compounds

OC = Organic compounds

PE = Particulate matter measurable by the applicable test methods in 40 CFR Part 60, Appendix A, "Standards of Performance for New Stationary Sources"

PM_{10} = Particulate matter with an aerodynamic diameter less than or equal to a nominal ten micrometers as measured either by a reference method that is based on 40 CFR Part 50, Appendix J and designated in accordance with 40 CFR Part 53 or by an equivalent method designated in accordance with 40 CFR Part 53

$PM_{2.5}$ = Particulate matter with an aerodynamic diameter less than or equal to a nominal 2.5 micrometers as measured either by a reference method that is based on 40 CFR Part 50, Appendix L and designated in accordance with 40 CFR Part 53 or by an equivalent method designated in accordance with 40 CFR Part 53

SO_2 = Sulfur dioxide

TPY = Ton(s) per year

MMBtu = million British thermal units

PTI = Permit to Install

CFR = Code of Federal Regulations

OAC = Ohio Administrative Code

ORC = Ohio Revised Code

PSD = Prevention of Significant Deterioration

C. Emissions Unit Terms and Conditions

1. P174, Gear Machine

Operations, Property and/or Equipment Description:

Machining operations that grind, broach, shape and hone gears, controlled by an oil mist collector (BT P10001620)

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), as effective 11/30/01 (PTI P0119363, 10/2/2015)	PE, PM_{10}, and $PM_{2.5}$ emissions shall not exceed 0.042 ton per month averaged over a 12-month rolling period. OC emissions shall not exceed 0.595 ton per month averaged over a 12-month rolling period. See b)(2)a.
b.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 12/01/06	See b)(2)b.
c.	OAC rule 3745-17-07(A)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
d.	OAC rule 3745-17-11(B)(1)	PE shall not exceed 3.47 pounds per hour.* *This emission limitation is greater than the emissions unit's potential to emit and less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

a. 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 the ORC changes effective August 3, 2006 (Senate Bill 265 changes), such that BAT is no longer required by State regulations for National Ambient Air Quality Standards (NAAQS) pollutant(s) less than ten tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05, then these emission limitations/control measures no longer apply.

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

The BAT requirements under OAC rule 3745-31-05(A)(3)(a)(ii) do not apply to the PE, PM_{10}, $PM_{2.5}$,and OC emissions from this air contaminant source since the uncontrolled potential to emit for PE, PM_{10}, $PM_{2.5}$, and OC emissions are less than 10 tons per year.

c. The PE, PM_{10}, $PM_{2.5}$, and OC emission limitations outlined above are based upon the emissions unit's potential to emit at 8,760 hours of operation per year. Therefore, no records are required to demonstrate compliance with these limitations.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall perform daily checks, Monday through Friday, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from 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 abnormal visible emissions.

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

(2) Notwithstanding the frequency of the monitoring and record keeping requirements specified in section d)(1), the permittee may reduce the visual observations from daily readings to weekly readings if the following conditions are met:

a. for 1 full quarter the facility's daily visual observations indicate no abnormal visible emissions; and

b. thepermittee continues to comply with all the record keeping and monitoring requirements specified in section d)(1), on a weekly basis.

The permittee shall revert to daily readings if any abnormal visible emissions are observed. The daily readings shall continue for one full quarter. If abnormal visible emissions are observed during this time, the permittee shall continue daily readings until such time that no abnormal visible emissions have been observed for a period of three consecutive months.

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

(3) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following monitoring and record keeping requirements are as stringent as or more stringent than the monitoring and record keeping requirements contained in PTI P0119363, issued 10/2/2015: d)(1) - d)(2). The monitoring and record keeping requirements contained in the above-referenced PTI are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the PTI.

e) Reporting Requirements

(1) The permittee shall submit semiannual written reports that (a) identify all days during which any abnormal visible particulate emissions were observed from this emissions unit, and (b) describe any corrective actions taken to eliminate the abnormal visible particulate emissions. If no abnormal visible particulate emissions were observed, the permittee shall state so in the report. These reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

(2) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following reporting requirements are as stringent as or more stringent than the reporting requirements contained in PTI P0119363, issued 10/2/2015: e)(1). The reporting requirements contained in the above-referenced PTI are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the PTI.

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

PE, PM_{10}, and $PM_{2.5}$ emissions shall not exceed 0.042 ton per month averaged over a 12-month rolling period.

Applicable Compliance Method:

The PE-PM_{10}-$PM_{2.5}$ emission rate is based on the emissions unit's potential to emit. The potential to emit was calculated by: [(emission factor of 0.0007 grain/dscf) x (maximum design volumetric flow rate of 19000 dscf/min) x (60 min/hr) x (1 lb/7000 grains)] x 8,760 hrs/yr x (1 ton/2000 lbs)/12 months. The grain loading emission factor was based on source test data of a similar source as provided by the permittee in the PTI application #A0039277, received on March 17, 2010. If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1-4 and 5 of 40 CFR, Part 60, Appendix A

(Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1))

b. Emission Limitation:

a) OC emissions shall not exceed 0.595 ton per month averaged over a 12-month rolling period.

Applicable Compliance Method:

The OC emission rate is based on the emissions unit's potential to emit. The potential to emit was calculated by: [(emission factor of 0.01 grain/scf for oil) x (maximum volumetric flow rate of 19000 scf/min) x (60 min/hr) x (1 lb/7000 grains)] x 8,760 hrs/yr x (1 ton/2000 lbs)/12 months. The grain loading emission factor was based on source test data of a similar source as provided by the permittee in the PTI application #A0039277, received on March 17, 2010. If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1-4 and 18, 25, or 25A, as appropriate, of 40 CFR, Part 60, Appendix A.

(Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1))

c. Emission Limitation:

Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method:

Compliance with the stack visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with U.S. EPA Method 9.

No visible emissions observations are specifically required to demonstrate compliance with this emission limitation but, if appropriate, may be required pursuant to OAC rule 3745-15-04(A).

(Authority for term: OAC rules 3745-31-05(A)(3), 3745-17-03(B)(1), and 3745-77-07(C)(1))

d. Emission Limitation:

Particulate emissions shall not exceed 3.47 pounds per hour.

Applicable Compliance Method:

The particulate emission limitation above is based upon Table I of OAC rule 3745-17-11 and a maximum process weight rate of 1560 lbs/hour, as provided in the initial installation application for PTI 14-05507, received on November 13, 2003. This emission limitation is greater than the potential to emit of the emissions unit. If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1-4 and 5 of 40 CFR, Part 60, Appendix A.

(Authority for term: OAC rules 3745-17-11(B) and 3745-77-07(C)(1))

(2) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following testing requirements are as stringent as or more stringent than the testing requirements contained in PTI P0119363, issued 10/2/2015: f)(1). The testing requirements contained in the above-referenced PTI are subsumed into the testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying testing requirements in the PTI.

g) Miscellaneous Requirements

(1) None.

2. Emissions Unit Group - Boilers 1A and 1B: B023, B024

EU ID	Operations, Property and/or Equipment Description
B023	34.5 MMBtu/hr natural gas/No. 2 fuel oil-fired boiler 1A
B024	34.5 MMBtu/hr natural gas/No. 2 fuel oil-fired boiler 1B

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 14-04486, 11/2/2000) Netting demonstration for SO_2 and NOx to avoid PSD review.	SO_2 emissions shall not exceed 0.33 lb/MMBtu of actual heat input. NOx emissions shall not exceed 0.17 lb/MMBtu of actual heat input when burning No.2 fuel oil.* NOx emissions shall not exceed 0.14 lb/MMBtu of actual heat input when burning natural gas.* See b)(2)a. *These lb/MMBtu emission limitations are based on the emissions unit's potential to emit. Therefore, no record keeping and/or reporting requirements are necessary to demonstrate compliance.
b.	OAC rule 3745-31-05(A)(3) (PTI 14-04486, 11/2/2000)	PE shall not exceed 0.020 lb/MMBtu of actual heat input.* PM_{10} emissions shall not exceed 0.020 lb/MMBtu of actual heat input.* CO emissions shall not exceed 0.10 lb/MMBtu of actual heat input.*

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		VOC emissions shall not exceed 0.006 lb/MMBtu of actual heat input.* See b)(2)b. *These lb/MMBtu emission limitations are equivalent to, or greater than, the emissions unit's potential to emit based upon the type of fuel combusted [See f)(1)a., f)(1)d., and f)(1)e.]. Therefore, no record keeping and/or reporting requirements are necessary to demonstrate compliance. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and 40 CFR Part 60 Subpart Dc.
c.	OAC rule 3745-17-07(A)	The visible emission limitations specified in OAC 3745-17-07(A) are less stringent than the visible emission limitations specified in 40 CFR Part 60 Subpart Dc.
d.	OAC rule 3745-17-10(B)(1)	The PE limitation specified in OAC 3745-17-10(B)(1) is the same as or less stringent than the PE limitation established in accordance with OAC rule 3745-31-05(A)(3).
e.	OAC rule 3745-18-06(D)	The SO_2 emission limitation specified in OAC 3745-18-06(D) is less stringent than the SO_2 emission limitation established in accordance with OAC rule 3745-31-05(A)(3).
f.	40 CFR Part 60, Subpart Dc (40 CFR 60.40c – 60.48c) Standards of Performance (NSPS) for Small Industrial-Commercial-Institutional Steam Generating Units	Excluding periods of startup, shutdown, or malfunction, visible particulate emissions shall not exceed 20% opacity, as a six-minute average, except for one six-minute period per hour of not more than 27% opacity when combusting distillate fuel oil. (40 CFR 60.43c(c)) The SO_2 emission limitation specified by this rule for distillate fuel oil combustion is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
g.	40 CFR Part 63, Subpart JJJJJJ (40 CFR 63.11193 – 63.11237) National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers Area Sources	See B.3.

(2) Additional Terms and Conditions

a. Emissions from each emissions unit shall not exceed:

21.2 TPY of NOx; and

49.9 TPY of SO_2*.

*this emission limitation above is based on the emissions unit's potential to emit operating 8,760 hours per year assuming compliance with the lb SO_2/MMBtu limitation, monitoring, and record keeping requirements in d)(1). Therefore, no annual record keeping and/or reporting requirements are necessary to demonstrate compliance.

b. Emissions from each emissions unit shall not exceed:

3.0 TPY of PE;*

3.0 TPY of PM_{10};*

0.9 TPY of VOC;* and

15.1 TPY of CO.*

*These emission limitations above are based on the emissions unit's potential to emit operating 8,760 hours per year. Therefore, no record keeping and/or reporting requirements are necessary to demonstrate compliance.

c) Operational Restrictions

(1) The permittee shall install and maintain a low-NOx burner at all times when operating the emissions unit on natural gas.

(Authority for term: OAC rules 3745-31-05(D), 3745-31-05(A)(3), and 3745-77-07(A)(1))

(2) The quality of the oil burned in the emissions unit shall meet the following specifications on an "as received" basis:

a. a maximum sulfur content of 0.3 percent or be sufficient to comply with the allowable SO_2 emission limitation of 0.33 pounds of SO_2/MMBtu actual heat input.

Compliance with the above-mentioned specifications shall be determined by using the analytical results collected and recorded in d)(1).

(Authority for term: OAC rules 3745-31-05(D), 3745-31-05(A)(3), and 3745-77-07(A)(1))

(3) The permittee shall burn only natural gas and/or No.2 fuel oil in the emissions unit.

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

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain the records specified in either Option 1 or Option 2 below to document the quality of the fuel oil burned in the emission unit.

Option 1:

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

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods, such as D240 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter and D4294, Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry, or ASTM D7039 Standard Test Method for Sulfur in Gasoline and Diesel fuel by Monochromatic Wavelength Dispersive X-ray Fluorescence Spectrometry, or equivalent methods as approved by the Director.

Option 2

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

a. Alternative 1:

For each shipment of oil received for burning in the emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/MMBtu). The sulfur dioxide emission rate shall be

calculated in accordance with the formula specified in OAC rule 3745-18-04(F). A shipment may be comprised of multiple tank truck loads from the same supplier's batch, or may be represented by single or multiple pipeline deliveries from the same supplier's batch, and the quality of the oil for those loads or pipeline deliveries may be represented by a single batch analysis from the supplier.

b. Alternative 2:

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

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods, such as D240 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter and D4294, Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry, or ASTM D7039 Standard Test Method for Sulfur in Gasoline and Diesel fuel by Monochromatic Wavelength Dispersive X-ray Fluorescence Spectrometry, or equivalent methods as approved by the Director.

(Authority for term: OAC rules 3745-31-05(D), 3745-31-05(A)(3), 3745-18-04, and 3745-77-07(C)(1))

(2) The permittee shall collect and record the following information on a monthly basis for each emissions unit:

a. the total amount of natural gas burned in the emissions unit, recorded in cubic feet;

b. the monthly emissions of NOx from the combustion of natural gas [the natural gas usage recorded in d)(2)a. x (1,000 Btu/scf)/1,000,000) X 0.14 lb of NOx/MMBtu];

c. the year-to-date NOx emissions recorded in TPY from the combustion of natural gas (the current month's total NOx emissions recorded in d)(2)b. added to the previous months total for the calendar year);

d. the total amount of No.2 fuel oil burned in the emissions unit, recorded in gallons;

e. the monthly emissions of NOx from the combustion of No.2 fuel oil [the No.2 fuel oil usage recorded in d)(2)d. x (130,000 Btu/gallon)/1,000,000) X 0.17 lb of NOx/MMBtu];

f. the year-to-date NOx emissions recorded in TPY from the combustion of No.2 fuel oil (the current month's total NOx emissions recorded in d)(2)e. added to the previous months total for the calendar year); and

g. the year-to-date total NOx emissions from the combustion of natural gas and No.2 fuel oil [d)(2)c. + d)(2)f.].

(Authority for term: OAC rules 3745-31-05(D), 3745-31-05(A)(3), and 3745-77-07(C)(1)

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

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

(4) The permittee shall comply with the applicable monitoring and recordkeeping requirements required under 40 CFR Part 60, Subpart Dc, including the following sections:

60.46c(e)	Fuel supplier certification(s) and statement(s) for oil
60.47c(c)	COMs exemption
60.48c(f)	Fuel supplier certification(s) and statement(s) for oil
60.48c(g)(1) or (2) or (3)	Fuel usage records
60.48c(i)	Records retention

(Authority for term: 40 CFR Part 60, Subpart Dc, OAC rule 3745-31-05(A)(3), and OAC rule 3745-77-07(C)(1))

(5) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following monitoring and record keeping requirements are as stringent as or more stringent than the monitoring and record keeping requirements contained in PTI 14-04486, issued 11/2/2000: d)(1) - d)(4). The monitoring and record keeping requirements contained in the above-referenced PTI are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the PTI.

e) Reporting Requirements

(1) The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of oil which is received for burning in the emissions unit. The permitee or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following

information shall also be included with the copies of the permittee's or oil supplier's analyses:

a. The total quantity of oil received in each shipment (gallons);

b. The weighted* average SO_2 emission rate (pounds/MMBtu) for the oil received during the calendar month; and,

c. The weighted* average heat content (Btu/gallon) of the oil received during the calendar month.

*In proportion to the quantity of oil received in each shipment during the calendar month.

These quarterly reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal by February 15, May 15, August 15, and November 15 of each year and shall cover the oil shipments received during the previous calendar quarters.

(Authority for term: OAC rules 3745-31-05(D), 3745-31-05(A)(3), and 3745-77-07(C)(1))

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

a. any exceedance of the allowable SO_2 emission limitation, in pounds SO_2/MMBtu actual heat input; and

b. each day when a fuel other than natural gas and/or No.2 oil was burned in the emissions unit.

The quarterly deviation (excursion) reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

(Authority for term: OAC rules 3745-31-05(D), 3745-31-05(A)(3), and 3745-77-07(C)(1))

(3) The permittee shall submit semi-annual reports and such other notifications and reports to the appropriate Ohio EPA District office or local air agency as are required pursuant to 40 CFR Part 60, Subpart Dc, per the following sections:

60.48c(b)	Initial and/or subsequent SO_2 and opacity performance test reports
60.48c(c)	Opacity excess emissions report requirements
60.48c(d) - (e)	Compliance report requirements
60.48c(j)	Reporting period

(Authority for term: 40 CFR Part 60, Subpart Dc, OAC rule 3745-31-05(A)(3), and OAC rule 3745-77-07(C)(1))

(4) The permittee shall submit annual reports which specify the total NOx, SO_2, and CO emissions from the emissions unit for the previous calendar year. These reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal by January 31 of each year.

(5) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following reporting requirements are as stringent as or more stringent than the reporting requirements contained in PTI 14-04486, issued 11/2/2000: e)(1) - e)(4). The reporting requirements contained in the above-referenced PTI are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the PTI.

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitations:

0.020 lb of PE/MMBtu of actual heat input;

0.020 lb of PM_{10}/MMBtu of actual heat input; and

3.0 TPY of PE/PM_{10}.

Applicable Compliance Method:

For the use of natural gas, the lb/MMBtu emission limitation is greater than the potential to emit. Compliance may be determined by multiplying the maximum natural gas usage rate of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs of filterable PE/MM cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr). All PE is assumed to be PM_{10} per AP-42, Table 1.4-2 footnote.

For the use of fuel oil, the lb/MMBtu emission limitation represents the potential to emit. Compliance may be determined by multiplying the maximum fuel oil usage rate of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 5/10) emission factor of 2.0 lbs of filterable PE/1000 gallons, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr). All PE is assumed to be PM_{10} per AP-42, Table 1.3-1 footnote.

If required, the permittee shall demonstrate compliance with the lb/MMBtu emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

The ton per year emission limitation represents the potential to emit for each emissions unit and was developed by multiplying the short-term allowable PE/PM_{10} limitations (0.020 lb/MMBtu) by the maximum rated capacity 34.5 MMBtu/hr and annual hours of operation (8,760 hours), and then dividing by 2,000 pounds per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rules 3745-31-05(A)(3), and 3745-77-07(C)(1))

b. Emission Limitations:

0.33 lb of SO_2/MMBtu of actual heat input; and

49.9 TPY of SO_2.

Applicable Compliance Method:

For the use of fuel oil, compliance with the allowable lb/MMBtu SO_2 emission limitation shall be demonstrated by the fuel analyses and emission rate calculations collected and recorded pursuant to d)(1).

For the use of natural gas, the lb/MMBtu emission limitation is greater than the potential to emit. Compliance may be determined by multiplying the hourly gas usage rate of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 0.6 lb of SO_2/MM cu. ft and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

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

The ton per year emission limitation represents the potential to emit for each emissions unit and was developed by multiplying the short-term allowable SO_2 limitation (0.33 lb/MMBtu) by the maximum rated capacity 34.5 MMBtu/hr and annual hours of operation (8,760 hours), and then dividing by 2,000 pounds per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(D), 3745-18-04, and 3745-77-07(C)(1))

c. Emission Limitations:

0.14 lb of NOx/MMBtu of actual heat input when burning only natural gas;

0.17 lb of NOx/MMBtu of actual heat input when burning No. 2 fuel oil; and

21.2 TPY of NOx.

Applicable Compliance Method:

For the use of natural gas, the lb/MMBtu emission limitation represents the potential to emit. Compliance may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (MM cu.ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-1 (revised 7/98) emission factor of 100 lbs of NOx/MM cu. ft of natural gas, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

For the use of No. 2 fuel oil, the lb/MMBtu emission limitation represents the potential to emit. Compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 5/10) emission factor of 20 lbs NOx/1000 gallons of fuel oil, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

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

The ton per year emission limitation represents the potential to emit for each emissions unit when combusting only natural gas and was developed by multiplying the short-term allowable NOx limitations (0.14 lb/MMBtu) by the maximum rated capacity 34.5 MMBtu/hr and annual hours of operation (8,760 hours), and then dividing by 2,000 pounds per ton. Compliance with the annual emission limitation shall be demonstrated by the record keeping requirements for natural gas and fuel oil specified in d)(2).

(Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(D), and 3745-77-07(C)(1))

d. Emission Limitations:

0.10 lb of CO/MMBtu of actual heat input; and

15.1 TPY of CO.

Applicable Compliance Method:

For the use of natural gas, the lb/MMBtu emission limitation represents the potential to emit. Compliance may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (MM cu.ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-1 (revised 7/98) emission factor of 84 lbs of CO/MM cu. ft of natural gas, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

For the use of No.2 fuel oil, the lb/MMBtu emission limitation is greater than the potential to emit. Compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 5/10) emission factor of 5 lbs of CO/1000

gallons of fuel oil, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

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

The ton per year emission limitation represents the potential to emit for each emissions unit and was developed by multiplying the short-term allowable CO limitation (0.10 lb/MMBtu) by the maximum rated capacity 34.5 MMBtu/hr and annual hours of operation (8,760 hours), and then dividing by 2,000 pounds per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rules 3745-31-05(A)(3), and 3745-77-07(C)(1))

e. Emission Limitations:

0.006 lb of VOC/MMBtu of actual heat input; and

0.9 TPY of VOC.

Applicable Compliance Method:

For the use of natural gas, the lb/MMBtu emission limitation represents the potential to emit. Compliance may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (MM cu.ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-1 (revised 7/98) emission factor of 5.5 lbs of VOC/MM cu. ft of natural gas, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

For the use of No.2 fuel oil, the lb/MMBtu emission limitation is greater than the potential to emit. Compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-3 (revised 5/10) emission factor of 0.2 lb of NMOC/1000 gallons of fuel oil, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

If required, the permittee shall demonstrate compliance with the lb/MMBtu emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 18, 25, or 25A, as appropriate.

The ton per year emission limitation represents the potential to emit for each emissions unit and was developed by multiplying the short-term allowable VOC limitation (0.006 lb/MMBtu) by the maximum rated capacity 34.5 MMBtu/hr and annual hours of operation (8,760 hours), and then dividing by 2,000 pounds per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rules 3745-31-05(A)(3), and 3745-77-07(C)(1))

f. Emission Limitation:

Excluding periods of startup, shutdown, or malfunction, visible particulate emissions shall not exceed 20% opacity, as a six-minute average, except for one six-minute period per hour of not more than 27% opacity when combusting distillate fuel oil.

Applicable Compliance Method:

When combusting fuel oil, compliance with the visible particulate emissions limitation shall be determined in accordance with the requirements of 40 CFR 60.45c and 60.47c.

(Authority for term: OAC rules 3745-31-05(A)(3), 3745-77-07(C)(1), and 40 CFR Part 60, Subpart Dc)

(2) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following testing requirements are as stringent as or more stringent than the testing requirements contained in PTI 14-04486, issued 11/2/2000: f)(1) The testing requirements contained in the above-referenced PTI are subsumed into the testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying testing requirements in the PTI.

g) Miscellaneous Requirements

(1) None.

3. Emissions Unit Group - Boilers 2 and 3: B002, B003

EU ID	Operations, Property and/or Equipment Description
B002	97.5 MMBtu/hr natural gas/No. 2 fuel oil-fired boiler #2
B003	146.5 MMBtu/hr natural gas/No. 2 fuel oil-fired boiler #3

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 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
b.	OAC rule 3745-17-10(B)(1)	PE shall not exceed 0.020 lb/MMBtu of actual heat input.
c.	OAC rule 3745-18-37(V)(1)	See b)(2)a.
d.	40 CFR Part 63, Subpart JJJJJJ (40 CFR 63.11193 – 63.11237) National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers Area Sources	See B.3.

(2) Additional Terms and Conditions

a. When firing with No. 2 fuel oil, SO_2 emissions shall not exceed 1.7 lbs/MMBtu of actual heat input, and the total combined heat input from emissions units B002 and B003 shall not exceed a daily average operating rate of 244 MMBtu per hour. This total heat input of 244 MMBtu per hour corresponds to a combined steam load of 200,000 pounds per hour (based upon an average over any calendar day).

The total combined maximum heat input for emission units B002 and B003 is 244 MMBtu/hr. Therefore, there is no need for monitoring and recordkeeping to demonstrate compliance with the total heat input limitation of 244 MMBtu/hr.

c) Operational Restrictions

(1) The quality of the No. 2 fuel oil burned in the emissions unit shall have a combination of sulfur content and heat content which is sufficient to comply with the allowable SO_2 emission limitation noted in b)(2)a.

Compliance with the above-mentioned specifications shall be determined by using the analytical results collected and recorded in d)(1).

(Authority for term: OAC rules 3745-18-04, 3745-18-37(V)(1), and 3745-77-07(A)(1))

(2) The permittee shall burn only natural gas and/or No.2 fuel oil in the emissions unit.

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

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain the records specified in either Option 1 or Option 2 below to document the quality of the fuel oil burned in the emission unit.

Option 1:

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

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods, such as D240 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter and D4294, Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry, or ASTM D7039 Standard Test Method for Sulfur in Gasoline and Diesel fuel by Monochromatic Wavelength Dispersive X-ray Fluorescence Spectrometry, or equivalent methods as approved by the Director.

Option 2

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

a. Alternative 1:

For each shipment of oil received for burning in the emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil

supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/MMBtu). The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F). A shipment may be comprised of multiple tank truck loads from the same supplier's batch, or may be represented by single or multiple pipeline deliveries from the same supplier's batch, and the quality of the oil for those loads or pipeline deliveries may be represented by a single batch analysis from the supplier.

b. Alternative 2:

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

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods, such as D240 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter and D4294, Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry, or ASTM D7039 Standard Test Method for Sulfur in Gasoline and Diesel fuel by Monochromatic Wavelength Dispersive X-ray Fluorescence Spectrometry, or equivalent methods as approved by the Director.

(Authority for term: OAC rules OAC 3745-18-04, 3745-18-37(V)(1), and 3745-77-07(C)(1))

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

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

e) Reporting Requirements

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

a. any exceedance of the allowable SO_2 emission limitation, in pounds SO_2/MMBtu actual heat input; and

b. each day when a fuel other than natural gas and/or No.2 oil was burned in the emissions unit.

The quarterly deviation (excursion) reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

(Authority for term: OAC rules 3745-18-04, 3745-18-37(V)(1), and 3745-77-07(C)(1))

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

0.020 lb of PE/MMBtu of actual heat input when burning natural gas or No.2 fuel oil.

Applicable Compliance Method:

For the use of natural gas, the lb/MMBtu emission limitation is greater than the potential to emit. Compliance may be determined by multiplying the maximum natural gas usage rate of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs of filterable PE/MM cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

For the use of fuel oil, the lb/MMBtu emission limitation represents the potential to emit. Compliance may be determined by multiplying the maximum fuel oil usage rate of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 5/10) emission factor of 2.0 lbs of filterable PE/1000 gallons, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

If required, the permittee shall demonstrate compliance with the lb/MMBtu emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

(Authority for term: OAC rules 3745-17-10(B) and 3745-77-07(C)(1))

b. Emission Limitation:

1.7 lbs of SO_2/MMBtu of actual heat input when burning fuel oil.

Applicable Compliance Method:

Compliance with the allowable lb/MMBtu SO_2 emission limitation shall be demonstrated by the fuel analyses and emission rate calculations collected and recorded pursuant to d)(1).

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

(Authority for term: OAC rules 3745-18-04, 3745-18-37(V)(1), and 3745-77-07(C)(1))

c. Emission Limitation:

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

Applicable Compliance Method:

Compliance with the stack visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with U.S. EPA Method 9.

No visible emissions observations are specifically required to demonstrate compliance with this emission limitation but, if appropriate, may be required pursuant to OAC rule 3745-15-04(A).

(Authority for term: OAC rules 3745-17-07(A) and 3745-77-07(C)(1)

g) Miscellaneous Requirements

(1) None.