



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

7/6/2016

Certified Mail

Mr. Darren Whitmer
 Speyside Bourbon Cooperage, Inc.
 P.O. Box 509
 Jackson, OH 45640

No	TOXIC REVIEW
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
Yes	MACT/GACT
No	NSPS
No	NESHAPS
No	NETTING
No	MODELING SUBMITTED
No	SYNTHETIC MINOR TO AVOID TITLE V
No	FEDERALLY ENFORCABLE PTIO (FEPTIO)
No	SYNTHETIC MINOR TO AVOID MAJOR GHG

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE

Facility ID: 0640010020
 Permit Number: P0120762
 Permit Type: Administrative Modification
 County: Jackson

Dear Permit Holder:

Enclosed please find a final Ohio Environmental Protection Agency (EPA) Air Pollution Permit-to-Install and Operate (PTIO) which will allow you to install, modify, and/or operate the described emissions unit(s) in the manner indicated in the permit. Because this permit contains conditions and restrictions, please read it very carefully. In this letter you will find the information on the following topics:

- **How to appeal this permit**
- **How to save money, reduce pollution and reduce energy consumption**
- **How to give us feedback on your permitting experience**
- **How to get an electronic copy of your permit**
- **What should you do if you notice a spill or environmental emergency?**

How to appeal this permit

The issuance of this PTIO is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Ohio Treasurer Josh Mandel," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
 77 South High Street, 17th Floor
 Columbus, OH 43215

How to save money, reduce pollution and reduce energy consumption

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. Additionally, all or a portion of the capital expenditures related to installing air pollution control equipment under this permit may be eligible for financing and State tax exemptions through the Ohio Air Quality Development Authority (OAQDA) under Ohio Revised Code Section 3706. For more information, see the OAQDA website: www.ohioairquality.org/clean_air

How to give us feedback on your permitting experience

Please complete a survey at www.epa.ohio.gov/survey.aspx and give us feedback on your permitting experience. We value your opinion.

How to get an electronic copy of your permit

This permit can be accessed electronically via the eBusiness Center: Air Services in Microsoft Word format or in Adobe PDF 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.

What should you do if you notice a spill or environmental emergency?

Any spill or environmental emergency which may endanger human health or the environment should be reported to the Emergency Response 24-HOUR EMERGENCY SPILL HOTLINE toll-free at (800) 282-9378. Report non-emergency complaints to the appropriate district office or local air agency.

If you have any questions regarding your permit, please contact Ohio EPA DAPC, Southeast District Office at (740)385-8501 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,



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

Cc: Ohio EPA-SEDO



FINAL

**Division of Air Pollution Control
Permit-to-Install and Operate
for
Speyside Bourbon Cooperage, Inc.**

Facility ID:	0640010020
Permit Number:	P0120762
Permit Type:	Administrative Modification
Issued:	7/6/2016
Effective:	7/6/2016
Expiration:	7/6/2026



Division of Air Pollution Control
Permit-to-Install and Operate
for
Speyside Bourbon Cooperage, Inc.

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Final Permit-to-Install and Operate
Speyside Bourbon Cooperage, Inc.
Permit Number: P0120762
Facility ID: 0640010020
Effective Date: 7/6/2016

Authorization

Facility ID: 0640010020
Application Number(s): A0055968, A0055970
Permit Number: P0120762
Permit Description: Administrative modification to correct the rating of B002 from 21.5 MMBtu/hr to 29.5 MMBtu/hr; administrative modification to correct the rating of B003 from 15 MMBtu/hr to 11.7 MMBtu/hr. This permit will transition the company from Title V to non-Title V.
Permit Type: Administrative Modification
Permit Fee: \$400.00
Issue Date: 7/6/2016
Effective Date: 7/6/2016
Expiration Date: 7/6/2026
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

Speyside Bourbon Cooperage, Inc.
960 E. Main Street
Jackson, OH 45640

of a Permit-to-Install and Operate for the emissions unit(s) identified on the following page.

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

Ohio EPA DAPC, Southeast District Office
2195 Front Street
Logan, OH 43138
(740)385-8501

The above named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (emissions unit(s)) listed in this section pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the described emissions unit(s) will operate in compliance with applicable State and federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency


Craig W. Butler
Director



Final Permit-to-Install and Operate
Speyside Bourbon Cooperage, Inc.
Permit Number: P0120762
Facility ID: 0640010020
Effective Date: 7/6/2016

Authorization (continued)

Permit Number: P0120762

Permit Description: Administrative modification to correct the rating of B002 from 21.5 MMBtu/hr to 29.5 MMBtu/hr; administrative modification to correct the rating of B003 from 15 MMBtu/hr to 11.7 MMBtu/hr. This permit will transition the company from Title V to non-Title V.

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

Emissions Unit ID:	B002
Company Equipment ID:	Wood Fired Boiler
Superseded Permit Number:	06-1103
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	B003
Company Equipment ID:	Backup Boiler
Superseded Permit Number:	06-1731
General Permit Category and Type:	Not Applicable



Final Permit-to-Install and Operate
Speyside Bourbon Cooperage, Inc.
Permit Number: P0120762
Facility ID: 0640010020
Effective Date: 7/6/2016

A. Standard Terms and Conditions

1. What does this permit-to-install and operate ("PTIO") allow me to do?

This permit allows you to install and operate the emissions unit(s) identified in this PTIO. You must install and operate the unit(s) in accordance with the application you submitted and all the terms and conditions contained in this PTIO, including emission limits and those terms that ensure compliance with the emission limits (for example, operating, recordkeeping and monitoring requirements).

2. Who is responsible for complying with this permit?

The person identified on the "Authorization" page, above, is responsible for complying with this permit until the permit is revoked, terminated, or transferred. "Person" means a person, firm, corporation, association, or partnership. The words "you," "your," or "permittee" refer to the "person" identified on the "Authorization" page above.

The permit applies only to the emissions unit(s) identified in the permit. If you install or modify any other equipment that requires an air permit, you must apply for an additional PTIO(s) for these sources.

3. What records must I keep under this permit?

You must keep all records required by this permit, including monitoring data, test results, strip-chart recordings, calibration data, maintenance records, and any other record required by this permit for five years from the date the record was created. You can keep these records electronically, provided they can be made available to Ohio EPA during an inspection at the facility. Failure to make requested records available to Ohio EPA upon request is a violation of this permit requirement.

4. What are my permit fees and when do I pay them?

There are two fees associated with permitted air contaminant sources in Ohio:

PTIO fee. This one-time fee is based on a fee schedule in accordance with Ohio Revised Code (ORC) section 3745.11, or based on a time and materials charge for permit application review and permit processing if required by the Director.

You will be sent an invoice for this fee after you receive this PTIO and payment is due within 30 days of the invoice date. You are required to pay the fee for this PTIO even if you do not install or modify your operations as authorized by this permit.

Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. For facilities that are permitted as synthetic minor sources, the fee schedule is adjusted annually for inflation. Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

5. When does my PTIO expire, and when do I need to submit my renewal application?

This permit expires on the date identified at the beginning of this permit document (see "Authorization" page above) and you must submit a renewal application to renew the permit. Ohio EPA will send a renewal notice to you approximately six months prior to the expiration date of this permit. However, it is

very important that you submit a complete renewal permit application (postmarked prior to expiration of this permit) even if you do not receive the renewal notice.

If a complete renewal application is submitted before the expiration date, Ohio EPA considers this a timely application for purposes of ORC section 119.06, and you are authorized to continue operating the emissions unit(s) covered by this permit beyond the expiration date of this permit until final action is taken by Ohio EPA on the renewal application.

6. What happens to this permit if my project is delayed or I do not install or modify my source?

This PTIO expires 18 months after the issue date identified on the "Authorization" page above unless otherwise specified if you have not (1) started constructing the new or modified emission sources identified in this permit, or (2) entered into a binding contract to undertake such construction. This deadline can be extended by up to 12 months, provided you apply to Ohio EPA for this extension within a reasonable time before the 18-month period has ended and you can show good cause for any such extension.

7. What reports must I submit under this permit?

An annual permit evaluation report (PER) is required in addition to any malfunction reporting required by OAC rule 3745-15-06 or other specific rule-based reporting requirement identified in this permit. Your PER due date is identified in the Authorization section of this permit.

8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and PER obligations under this permit?

If you are required to obtain a Title V permit under OAC Chapter 3745-77 in the future, the permit-to-operate portion of this permit will be superseded by the issued Title V permit. From the effective date of the Title V permit forward, this PTIO will effectively become a PTI (permit-to-install) in accordance with OAC rule 3745-31-02(B). The following terms and conditions of this permit will no longer be applicable after issuance of the Title V permit: Section B, Term 1.b) and Section C, for each emissions unit, Term a)(2).

The PER requirements in this permit remain effective until the date the Title V permit is issued and is effective, and cease to apply after the effective date of the Title V permit. The final PER obligation will cover operations up to the effective date of the Title V permit and must be submitted on or before the submission deadline identified in this permit on the last day prior to the effective date of the Title V permit.

9. What are my obligations when I perform scheduled maintenance on air pollution control equipment?

You must perform scheduled maintenance of air pollution control equipment in accordance with OAC rule 3745-15-06(A). If scheduled maintenance requires shutting down or bypassing any air pollution control equipment, you must also shut down the emissions unit(s) served by the air pollution control equipment during maintenance, unless the conditions of OAC rule 3745-15-06(A)(3) are met. Any emissions that exceed permitted amount(s) under this permit (unless specifically exempted by rule) must be reported as deviations in the annual permit evaluation report (PER), including nonexempt excess emissions that occur during approved scheduled maintenance.

10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report?

If you have a reportable malfunction of any emissions unit(s) or any associated air pollution control system, you must report this to the [DO/LAA] in accordance with OAC rule 3745-15-06(B). Malfunctions that must be reported are those that result in emissions that exceed permitted emission levels. It is your responsibility to evaluate control equipment breakdowns and operational upsets to determine if a reportable malfunction has occurred.

If you have a malfunction, but determine that it is not a reportable malfunction under OAC rule 3745-15-06(B), it is recommended that you maintain records associated with control equipment breakdown or process upsets. Although it is not a requirement of this permit, Ohio EPA recommends that you maintain records for non-reportable malfunctions.

11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located?

Yes. Under Ohio law, the Director or his authorized representative may inspect the facility, conduct tests, examine records or reports to determine compliance with air pollution laws and regulations and the terms and conditions of this permit. You must provide, within a reasonable time, any information Ohio EPA requests either verbally or in writing.

12. What happens if one or more emissions units operated under this permit is/are shut down permanently?

Ohio EPA can terminate the permit terms associated with any permanently shut down emissions unit. "Shut down" means the emissions unit 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.

You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emission unit once the certification has been submitted to Ohio EPA by the authorized official.

You must comply with all recordkeeping and reporting for any permanently shut down emissions unit in accordance with the provisions of the permit, regulations or laws that were enforceable during the period of operation, such as the requirement to submit a PER, air fee emission report, or malfunction report. You must also keep all records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, for at least five years from the date the record was generated.

Again, you cannot resume operation of any emissions unit certified by the authorized official as being permanently shut down without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

13. Can I transfer this permit to a new owner or operator?

You can transfer this permit to a new owner or operator. If you transfer the permit, you must follow the procedures in OAC Chapter 3745-31, including notifying Ohio EPA or the local air agency of the change in ownership or operator. Any transferee of this permit must assume the responsibilities of the transferor permit holder.

14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"?

This permit and OAC rule 3745-15-07 prohibit operation of the air contaminant source(s) regulated under this permit in a manner that causes a nuisance. Ohio EPA can require additional controls or modification of the requirements of this permit through enforcement orders or judicial enforcement action if, upon investigation, Ohio EPA determines existing operations are causing a nuisance.

15. What happens if a portion of this permit is determined to be invalid?

If a portion of this permit is determined to be invalid, the remainder of the terms and conditions remain valid and enforceable. The exception is where the enforceability of terms and conditions are dependent on the term or condition that was declared invalid.



Final Permit-to-Install and Operate
Speyside Bourbon Cooperage, Inc.
Permit Number: P0120762
Facility ID: 0640010020
Effective Date: 7/6/2016

B. Facility-Wide Terms and Conditions



1. This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) None.
 - b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (1) None.
2. The Ohio EPA has determined that this facility (Emissions Unit B002) is subject to the requirements of 40 CFR Part 63, Subpart JJJJJJ, the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers Area Sources. At this time, Ohio EPA is not accepting the delegating authority to enforce NESHAP standards for area sources. The requirements of this rule, that are applicable to the area source (for hazardous air pollutants) identified in this permit shall be enforceable by U.S. EPA. The complete requirements of this rule (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.



Final Permit-to-Install and Operate
Speyside Bourbon Cooperage, Inc.
Permit Number: P0120762
Facility ID: 0640010020
Effective Date: 7/6/2016

C. Emissions Unit Terms and Conditions

1. B002, Wood Fired Boiler

Operations, Property and/or Equipment Description:

29.5 MMBtu (880 HP) wet wood residue fired boiler (Serial No. H-3400-03) controlled by a multiclone (Model no. MISA 24-4 CYT-A) with a 100% capture efficiency and 99.98% control efficiency. Administrative modification of PTI 06-1103 issued 12/24/1986 to correct the rating of the boiler, the associated emissions limitations, and transition the facility from Title V (TV) to non-TV.

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. d)(2), e)(3) and g)(1)

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. 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)	<p>Nitrogen oxides (NO_x) emissions shall not exceed 0.22 lb/MMBtu and 28.43 tons/year.</p> <p>Carbon monoxide (CO) emissions shall not exceed 0.60 lb/MMBtu and 77.53 tons/year.</p> <p>Sulfur dioxide (SO₂) emissions shall not exceed 0.025 lb/MMBtu and 3.23 tons/year.</p> <p>Volatile organic compound (VOC) emissions shall not exceed 0.017 lb/MMBtu and 2.20 tons/year.</p>

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>Particulate emissions (PE) and emissions of particulate matter less than 10 microns in diameter (PM₁₀) shall not exceed 0.29 lb/MMBtu and 37.47 tons/year.</p> <p>See b)(2)a.-b. below.</p>
b.	OAC rule 3745-17-07(A)	Visible PE from the stack shall not exceed 20% opacity, as a six minute average, except as provided by rule.
c.	OAC rule 3745-17-10(C)(1) Curve P-1, Figure 1	The emissions limitation established pursuant to this rule is equivalent to the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).
d.	OAC rule 3745-18-06	The emissions limitation established pursuant to this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

- a. The permittee shall employ best available control measures for the above-identified boiler operation for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permit application, the permittee will maintain the multiclone in good operating condition at all times and will ensure that the multiclone captures 100% of the particulate emissions and controls 99.98% of the particulate emissions. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- b. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rules 3745-17-08 and 3745-31-05(A)(3).

c) Operational Restrictions

- (1) The emissions from this emissions unit shall be vented to a multiclone with 100% capture efficiency and 99.98% control efficiency for PE at all times the emissions unit is in operation.
- (2) The permittee shall only burn wood waste in this emissions unit.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an

operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

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

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

- (2) The permittee shall maintain a record of any change made to a parameter or value used in the dispersion model, used to demonstrate compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration. The record shall include the date and reason(s) for the change and if the change would increase the ground-level concentration.
- (3) For each day during which the permittee burns a fuel other than wood waste, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

e) Reporting Requirements

- (1) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the appropriate district office or local air agency.
- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (3) The permittee shall include any changes made to a parameter or value used in the dispersion model, that was used to demonstrate compliance with the Toxic Air Contaminant Statute, ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration, in the annual Permit Evaluation Report (PER). If no

changes to the emissions, emissions unit(s), or the exhaust stack have been made, then the report shall include a statement to this effect.

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

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. Emissions Limitations:

NO_x emissions shall not exceed 0.22 lb/MMBtu and 28.43 tons/year.

Applicable Compliance Method:

The lb/MMBtu emissions limitation was established pursuant to AP-42 Table 1.6-2.

If required, NO_x emissions shall be determined according to test Methods 1 - 4, and 7 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.

The annual emissions limitation was derived by multiplying the lb/MMBtu emissions limitation by the maximum rating of the boiler (29.5 MMBtu/hr) multiplied by 8,760 hours per year and dividing by 2,000 lbs/ton.

Compliance with the annual emissions limitation is assumed if compliance is shown with the lb/MMBtu emissions limit.

b. Emissions Limitations:

CO emissions shall not exceed 0.60 lb/MMBtu and 77.53 tons/year.

Applicable Compliance Method:

The lb/MMBtu emissions limitation was established pursuant to AP-42 Table 1.6-2.

If required, CO emissions shall be determined according to test Methods 1 - 4, and 10 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.



The annual emissions limitation was derived by multiplying the lb/MMBtu emissions limitation by the maximum rating of the boiler (29.5 MMBtu/hr) multiplied by 8,760 hours per year and dividing by 2,000 lbs/ton.

Compliance with the annual emissions limitation is assumed if compliance is shown with the lb/MMBtu emissions limit.

c. Emissions Limitations:

SO₂ emissions shall not exceed 0.025 lb/MMBtu and 3.23 tons/year.

Applicable Compliance Method:

The lb/MMBtu emissions limitation was established pursuant to AP-42 Table 1.6-2.

If required, SO₂ emissions shall be determined according to test Methods 1 - 4, and 6 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.

The annual emissions limitation was derived by multiplying the lb/MMBtu emissions limitation by the maximum rating of the boiler (29.5 MMBtu/hr) multiplied by 8,760 hours per year and dividing by 2,000 lbs/ton.

Compliance with the annual emissions limitation is assumed if compliance is shown with the lb/MMBtu emissions limit.

d. Emissions Limitations:

PE and emissions of PM₁₀ shall not exceed 0.29 lb/MMBtu and 37.47 tons/year.

Applicable Compliance Method:

The lb/MMBtu emissions limitation was derived pursuant to OAC rule 3745-17-10(C)(1), Curve P-1 of Figure 1 (Equation $0.8H^{0.3010}$) and the maximum rating of the boiler (H) of 29.5 MMBtu/hr.

If required, PE shall be determined according to test Methods 1 - 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.

The annual emissions limitation was established by multiplying the lb/MMBtu emissions limitation by the maximum rating of the boiler (29.5 MMBtu/hr) multiplied by 8,760 hours per year and dividing by 2,000 lbs/ton.

Compliance with the annual emissions limitation is assumed if compliance is shown with the lb/MMBtu emissions limit.



e. Emissions Limitations:

VOC emissions shall not exceed 0.017 lb/MMBtu and 2.20 tons/year.

Applicable Compliance Method:

The lb/MMBtu emissions limitation was established pursuant to AP-42 Table 1.6-3.

If required, VOC emissions shall be determined according to test Methods 1 - 4, and 18, 25, or 25A as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.

The annual emissions limitation was derived by multiplying the lb/MMBtu emissions limitation by the maximum rating of the boiler (29.5 MMBtu/hr) multiplied by 8,760 hours per year and dividing by 2,000 lbs/ton.

Compliance with the annual emissions limitation is assumed if compliance is shown with the lb/MMBtu emissions limit.

f. Emissions Limitation:

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

Applicable Compliance Method:

If required, visible particulate emissions shall be determined according to USEPA Method 9.

g) Miscellaneous Requirements

- (1) Air toxics modeling was not conducted for permit-to-install (PTI) 06-1103 issued final December 24, 1986. Therefore, modeling was conducted retroactively for hydrochloric acid (HCl) emissions. The following summarizes the results of dispersion modeling for the significant toxic contaminants (emitted at 1 or more tons/year):

Toxic Contaminant: HCl.

TLV (mg/m³): 5,501.13

Maximum Hourly Emission Rate (lbs/hr): 0.56

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 73.84

MAGLC (ug/m³): 130.98



Final Permit-to-Install and Operate
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The permittee, has demonstrated that emissions of HCl, from emissions unit B002, is calculated to be less than eighty percent of the maximum acceptable ground level concentration (MAGLC).

Prior to making any physical changes to or changes in the method of operation of the emissions unit, that could impact the parameters or values that were used in the predicted 1-hour maximum ground-level concentration, the permittee shall re-model the change(s) to demonstrate that the MAGLC has not been exceeded.

2. B003, Backup Boiler

Operations, Property and/or Equipment Description:

11.7 MMBtu (350 HP) natural gas fired boiler (Serial No. 5-5-1758-S150-IC) used to supplement B002. Administrative modification of PTI 06-1731, issued final 11/13/1996, to correct the boiler rating, fuel type, associated emission limitations, and transition the facility from Title V (TV) to non-TV.

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. 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)	<p>Nitrogen oxides (NO_x) emissions shall not exceed 0.10 lb/MMBtu and 5.12 tons/year.</p> <p>Carbon monoxide (CO) emissions shall not exceed 0.08 lb/MMBtu and 4.10 tons/year.</p> <p>Sulfur dioxide (SO₂) emissions shall not exceed 0.001 lb/MMBtu and 0.05 ton/year.</p> <p>Volatile organic compound (VOC) emission shall not exceed 0.005 lb/MMBtu and 0.26 ton/year.</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		Particulate emissions (PE) and emissions of particulate matter less than 10 microns in diameter (PM ₁₀) shall not exceed 0.01 lb/MMBtu and 0.51 ton/year. There shall be no visible PE from the stack serving this emissions unit.
b.	OAC rule 3745-17-10(B)(1) OAC rule 3745-17-07(A)	The emissions limitation established pursuant to this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-18-06	Exempt pursuant to OAC rule 3745-18-06(A).

(2) Additional Terms and Conditions

a. None.

c) Operational Restrictions

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

d) Monitoring and/or Recordkeeping Requirements

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

e) Reporting Requirements

(1) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the appropriate district office or local air agency.

(2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.

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

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. Emissions Limitations:

NO_x emissions shall not exceed 0.10 lb/MMBtu and 5.12 tons/year.

Applicable Compliance Method:

The lb/MMBtu emissions limitation was derived using AP-42 Table 1.4-1 and a conversion factor of 1,020 Btu/scf of natural gas.

If required, nitrogen oxides emissions shall be determined according to test Methods 1 - 4, and 7 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.

Compliance with the annual emissions limitation may be demonstrated by multiplying the lb/MMBtu emissions limitation by the maximum rating of the boiler (11.7 MMBtu/hr) multiplied by 8,760 hours per year and dividing by 2,000 lbs/ton.

Compliance with the annual emissions limitation is assumed if compliance is shown with the lb/MMBtu emissions limit.

b. Emissions Limitations:

CO emissions shall not exceed 0.08 lb/MMBtu and 4.10 tons/year.

Applicable Compliance Method:

The lb/MMBtu emissions limitation was derived using AP-42 Table 1.4-1 and a conversion factor of 1,020 Btu/scf of natural gas.

If required, carbon monoxide emissions shall be determined according to test Methods 1 - 4, and 10 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.

Compliance with the annual emissions limitation may be demonstrated by multiplying the lb/MMBtu emissions limitation by the maximum rating of the boiler (11.7 MMBtu/hr) multiplied by 8,760 hours per year and dividing by 2,000 lbs/ton.

Compliance with the annual emissions limitation is assumed if compliance is shown with the lb/MMBtu emissions limit.

c. Emissions Limitations:

SO₂ emissions shall not exceed 0.001 lb/MMBtu and 0.05 ton/year.

Applicable Compliance Method:

The lb/MMBtu emissions limitation was derived using AP-42 Table 1.4-2 and a conversion factor of 1,020 Btu/scf of natural gas.

If required, sulfur dioxide emissions shall be determined according to test Methods 1 - 4, and 6 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.

Compliance with the annual emissions limitation may be demonstrated by multiplying the lb/MMBtu emissions limitation by the maximum rating of the boiler (11.7 MMBtu/hr) multiplied by 8,760 hours per year and dividing by 2,000 lbs/ton.

Compliance with the annual emissions limitation is assumed if compliance is shown with the lb/MMBtu emissions limit.

d. Emissions Limitations:

VOC emission shall not exceed 0.005 lb/MMBtu and 0.26 ton/year.

Applicable Compliance Method:

The lb/MMBtu emissions limitation was derived using AP-42 Table 1.4-2 and a conversion factor of 1,020 Btu/scf of natural gas.

If required, VOC emissions shall be determined according to test Methods 1 - 4, and 18, 25, or 25A as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.

Compliance with the annual emissions limitation may be demonstrated by multiplying the lb/MMBtu emissions limitation by the maximum rating of the boiler (11.7 MMBtu/hr) multiplied by 8,760 hours per year and dividing by 2,000 lbs/ton.

Compliance with the annual emissions limitation is assumed if compliance is shown with the lb/MMBtu emissions limit.

e. Emissions Limitations:

PE and emissions of PM₁₀ shall not exceed 0.01 lb/MMBtu and 0.51 ton/year.



Applicable Compliance Method:

The lb/MMBtu emissions limitation was derived using AP-42 Table 1.4-2 and a conversion factor of 1,020 Btu/scf of natural gas.

If required, particulate emissions shall be determined according to test Methods 1 - 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.

Compliance with the annual emissions limitation may be demonstrated by multiplying the lb/MMBtu emissions limitation by the maximum rating of the boiler (11.7 MMBtu/hr) multiplied by 8,760 hours per year and dividing by 2,000 lbs/ton.

Compliance with the annual emissions limitation is assumed if compliance is shown with the lb/MMBtu emissions limit.

f. Emissions Limitation:

There shall be no visible PE from the stack serving this emissions unit.

Applicable Compliance Method:

If required, visible PE shall be determined according to USEPA Method 22.

g) Miscellaneous Requirements

- (1) None.