



12/2/2013

Certified Mail

Michael Valigosky
UNIVERSITY OF TOLEDO - MAIN CAMPUS
2801 W BANCROFT ST
MS219
TOLEDO, OH 43606

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

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE

Facility ID: 0448010805
Permit Number: P0115356
Permit Type: Renewal
County: Lucas

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**

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.

If you have any questions, please contact Toledo Department of Environmental Services at (419)936-3015 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,



Michael W. Ahern, Manager

Permit Issuance and Data Management Section, DAPC

Cc: TDES



Response to Comments

Facility ID:	0448010805
Facility Name:	UNIVERSITY OF TOLEDO - MAIN CAMPUS
Facility Description:	University of Toledo - Main Campus boilers and storage tanks
Facility Address:	2801 W BANCROFT ST Toledo, OH 43606 Lucas County
Permit:	P0115356, Permit-To-Install and Operate - Renewal
A public notice for the draft permit issuance was published in the Ohio EPA Weekly Review and appeared in the Toledo Blade on 10/30/2013. The comment period ended on 11/29/2013.	
Hearing date (if held)	
Hearing Public Notice Date (if different from draft public notice)	

The following comments were received during the comment period specified. Ohio EPA reviewed and considered all comments received during the public comment period. By law, Ohio EPA has authority to consider specific issues related to protection of the environment and public health. Often, public concerns fall outside the scope of that authority. For example, concerns about zoning issues are addressed at the local level. Ohio EPA may respond to those concerns in this document by identifying another government agency with more direct authority over the issue.

In an effort to help you review this document, the questions are grouped by topic and organized in a consistent format. PDF copies of the original comments in the format submitted are available upon request.

1. Topic: No Comments Received



FINAL

**Division of Air Pollution Control
Permit-to-Install and Operate
for
UNIVERSITY OF TOLEDO - MAIN CAMPUS**

Facility ID:	0448010805
Permit Number:	P0115356
Permit Type:	Renewal
Issued:	12/2/2013
Effective:	12/2/2013
Expiration:	12/2/2018



Division of Air Pollution Control
Permit-to-Install and Operate
for
UNIVERSITY OF TOLEDO - MAIN CAMPUS

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Authorization

Facility ID: 0448010805
Application Number(s): A0048554, A0048684, A0048685, A0048686
Permit Number: P0115356
Permit Description: FEPTIO renewal including Administrative Modification to incorporate the latest Senate Bill 265 permit language for emissions units B011 through B014 and include correct AP-42 emission factors for PM10 and VOC.
Permit Type: Renewal
Permit Fee: \$0.00
Issue Date: 12/2/2013
Effective Date: 12/2/2013
Expiration Date: 12/2/2018
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

UNIVERSITY OF TOLEDO - MAIN CAMPUS
2801 W BANCROFT ST
Toledo, OH 43606

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

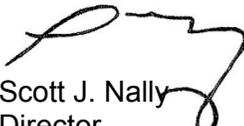
Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Toledo Department of Environmental Services
348 South Erie Street
Toledo, OH 43604
(419)936-3015

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


Scott J. Nally
Director



Authorization (continued)

Permit Number: P0115356
 Permit Description: FEPTIO renewal including Administrative Modification to incorporate the latest Senate Bill 265 permit language for emissions units B011 through B014 and include correct AP-42 emission factors for PM10 and VOC.

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

Group Name: Grp B011-B014 & B019-B022

Emissions Unit ID:	B011
Company Equipment ID:	Steam Generator #1
Superseded Permit Number:	04-01507
General Permit Category andType:	Not Applicable
Emissions Unit ID:	B012
Company Equipment ID:	Steam Generator #2
Superseded Permit Number:	04-01507
General Permit Category andType:	Not Applicable
Emissions Unit ID:	B013
Company Equipment ID:	Steam Generator #3
Superseded Permit Number:	04-01507
General Permit Category andType:	Not Applicable
Emissions Unit ID:	B014
Company Equipment ID:	Steam Generator #4
Superseded Permit Number:	04-01507
General Permit Category andType:	Not Applicable
Emissions Unit ID:	B019
Company Equipment ID:	Steam Generator #7
Superseded Permit Number:	P0108056
General Permit Category andType:	Not Applicable
Emissions Unit ID:	B020
Company Equipment ID:	Steam Generator #8
Superseded Permit Number:	P0108056
General Permit Category andType:	Not Applicable
Emissions Unit ID:	B021
Company Equipment ID:	Steam Generator #5
Superseded Permit Number:	P0108314
General Permit Category andType:	Not Applicable
Emissions Unit ID:	B022
Company Equipment ID:	Steam Generator #6
Superseded Permit Number:	P0108314
General Permit Category andType:	Not Applicable

Group Name: Grp B017 & B018

Emissions Unit ID:	B017
Company Equipment ID:	Student Rec Center Boiler #1
Superseded Permit Number:	P0108169
General Permit Category andType:	Not Applicable
Emissions Unit ID:	B018
Company Equipment ID:	Student Rec Center Boiler #2



Final Permit-to-Install and Operate
UNIVERSITY OF TOLEDO - MAIN CAMPUS
Permit Number: P0115356
Facility ID: 0448010805
Effective Date: 12/2/2013

Superseded Permit Number:	P0108169
General Permit Category and Type:	Not Applicable



Final Permit-to-Install and Operate
UNIVERSITY OF TOLEDO - MAIN CAMPUS
Permit Number: P0115356
Facility ID: 0448010805
Effective Date: 12/2/2013

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
UNIVERSITY OF TOLEDO - MAIN CAMPUS
Permit Number: P0115356
Facility ID: 0448010805
Effective Date: 12/2/2013

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 following emission units contained in this permit are subject to 40 CFR Part 60, Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units: B011-B014, and B017-B022. The complete NSPS requirements may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website <http://ecfr.gpoaccess.gov> or by contacting the Toledo Division of Environmental Services.
3. The permittee is advised that this facility may be subject to the "Generally Available Control Technology" (GACT) requirements under 40 CFR Part 63, Subpart JJJJJJ, the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers Area Sources for emissions units B011-B014 and B019-B022,. The U.S. EPA is responsible for the administration of the requirements of this rule at this time. It should be noted that the enforcement authority of the GACT requirements is not delegated to Ohio EPA at the time of this permit processing. 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.



C. Emissions Unit Terms and Conditions



**1. Emissions Unit Group -Grp B011-B014 & B019-B022:
B011,B012,B013,B014,B019,B020,B021,B022,**

EU ID	Operations, Property and/or Equipment Description
B011	600 Hp (25.8 mmBtu/hr) Natural gas/fuel oil fired Steam Generator #1 - no.2 fuel oil backup
B012	600 Hp (25.8 mmBtu/hr) Natural gas/fuel oil fired Steam Generator #2 - no.2 fuel oil backup
B013	600 Hp (25.8 mmBtu/hr) Natural gas/fuel oil fired Steam Generator #3 - no.2 fuel oil backup
B014	600 Hp (25.8 mmBtu/hr) Natural gas/fuel oil fired Steam Generator #4 - no.2 fuel oil backup
B019	600 Hp (25.8 mmBtu/hr) Natural gas/fuel oil fired Steam Generator #7 - no.2 fuel oil backup
B020	600 Hp (25.8 mmBtu/hr) Natural gas/fuel oil fired Steam Generator #8 - no.2 fuel oil backup
B021	600 Hp (25.8 mmBtu/hr) Natural gas/fuel oil fired Steam Generator #5 - no.2 fuel oil backup
B022	600 Hp (25.8 mmBtu/hr) Natural gas/fuel oil fired Steam Generator #6 - no.2 fuel oil backup

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. b)(1)a., b)(2)a., b)(2)b., c)(3), d)(3), f)(1)d. and f)(1)h.

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)	<p>The combined emissions of nitrogen oxides (NOx) from emissions units B011 through B014, and B019 through B022 shall not exceed 54.10 tons per rolling, 12-month period.</p> <p>The combined emissions of sulfur dioxide (SO₂) from emissions units B011 through B014, and B019 through B022 shall not exceed 35.30 tons per rolling, 12-month</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		period. See b)(2)a. and b)(2)b.
b.	ORC 3704.03(T)	<p>The emissions of NO_x from this emissions unit when combusting natural gas shall not exceed 0.08 pound per mmBtu of heat input;</p> <p>The emissions of NO_x from this emissions unit when combusting distillate fuel oil shall not exceed 0.19 pound per mmBtu of heat input; and</p> <p>The emissions of SO₂ from this emissions unit when combusting natural gas shall not exceed 0.6 pound per million cubic feet.</p> <p>See b)(2)c. and b)(2)d.</p>
c.	OAC rule 3745-31-05(A)(3), as effective 11/30/2001	<p>The emissions of carbon monoxide (CO) from this emissions unit while combusting natural gas shall not exceed 0.082 pound per mmBtu;</p> <p>The emissions of CO from this emissions unit while combusting fuel oil shall not exceed 0.036 pound per mmBtu of heat input;</p> <p>The emissions of CO from this emissions unit shall not exceed 9.27 tons per year;</p> <p>The particulate emissions (PE) from this emissions unit while combusting natural gas shall not exceed 0.002 pound per mmBtu of heat input;</p> <p>The PE from this emissions unit while combusting fuel oil shall not exceed 0.014 pound per mmBtu of heat input;</p> <p>The PE from this emissions unit shall not exceed 1.06 tons per year;</p> <p>The emissions of particulate matter less</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>than or equal to 10 microns (PM₁₀) from this emissions unit while combusting natural gas shall not exceed 0.007 pound per mmBtu of heat input;</p> <p>The emissions of PM₁₀ from this emissions unit while combusting fuel oil shall not exceed 0.024 pound per mmBtu of heat input;</p> <p>The emissions of PM₁₀ from this emissions unit shall not exceed 2.00 tons per year;</p> <p>The volatile organic compound (VOC) emissions from this emissions unit when combusting natural gas shall not exceed 0.0054 pound per mmBtu of heat input;</p> <p>The VOC emissions from this emissions unit when combusting fuel oil shall not exceed 0.002 pound per mmBtu of heat input; and</p> <p>The VOC emissions from this emissions unit shall not exceed 0.61 ton per year.</p> <p>See b)(2)e.</p>
d.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 12/1/2006	See b)(2)f.
e.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
f.	OAC rule 3745-17-10(B)(1)	PE shall not exceed 0.020 pound per million Btu of actual heat input.
g.	OAC rule 3745-18-06(D)	<p>1.6 pounds of sulfur dioxide per mmBtu actual heat input when burning fuel oil; or</p> <p>exempt, by the provisions of OAC rule 3745-18-06(A) during any calendar day in which natural gas is the only fuel burned.</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		See b)(2)g.
h.	40 CFR Part 60, Subpart Dc (40 CFR 60.40c – 60.48c) In accordance with 40 CFR 60.40c(a) this emissions unit is a 25.8 mmBtu/hr boiler which can combust natural gas or distillate oil.	During any calendar day in which fuel oil is burned, the emissions of SO ₂ from this emissions unit shall not exceed 215 nanograms per Joule (0.50 pound SO ₂ per million Btu) heat input; or, as an alternative the permittee shall combust no oil that contains greater than 0.5 weight percent sulfur. See b)(2)h.

(2) Additional Terms and Conditions

- a. The facility-wide usage of distillate fuel oil shall not exceed 1.0 million gallons as a rolling, 12-month summation of oil received.
- b. The facility-wide usage of natural gas shall not exceed 1.0 billion standard cubic feet (1.0 million Mscf) as a rolling, 12-month summation of natural gas received.
- c. The pound per million Btu emissions limitations were established for PTI purposes to reflect the potential to emit for this inherently clean emissions unit at the maximum firing rate.
- d. The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart Dc.
- e. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (S.B. 265 changes) such that BAT is no longer required by State regulations for NAAQS pollutant 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 374531-05, then these emission limits/control measures no longer apply.
- f. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.



The best available technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the uncontrolled carbon monoxide (CO) emissions, particulate emissions (PE), particulate matter less than 10 microns (PM₁₀) and volatile organic compound (VOC) emissions from this air contaminant source since the potential to emit for CO, PE, PM₁₀ and VOC is less than 10 tons per year.

- g. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR 60 subpart Dc.
- h. The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.

c) Operational Restrictions

- (1) The permittee shall only burn natural gas or distillate fuel oil with $\leq 0.5\%$ sulfur by weight in this emissions unit; or

the quality of the oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in this permit (0.50 pound SO₂ per million Btu of heat input).

- (2) Pursuant to 40 CFR 60.42c(i), the sulfur dioxide emission limit for fuel oil applies at all times, including periods of startup, shutdown, and malfunctions.
- (3) Compliance with the fuel usage limitations in b)(2)a. and b. shall be based upon a rolling, 12-month summation of the monthly quantities of fuel(s) received.

d) Monitoring and/or Recordkeeping Requirements

- (1) For each day during which the permittee burns a fuel other than natural gas or distillate fuel oil with $\leq 0.5\%$ sulfur by weight, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- (2) For each shipment of oil received for burning at this facility, 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 pounds per million Btu). The sulfur dioxide emission rate shall be calculated in accordance with the formula(s) specified in OAC rule 3745-18-04(F) and 40 CFR 60.44c. 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 equivalent methods as approved by the director.

- (3) The permittee shall maintain monthly records of the following information:
 - a. the facility-wide natural gas usage rate (in Mscf, on an as received basis) for each month;
 - b. the rolling, 12-month summation of the facility-wide natural gas usage rates (in Mscf);
 - c. the facility-wide distillate fuel oil usage rate (in gallons, on an as received basis) for each month; and
 - d. the rolling, 12-month summation of the facility-wide distillate fuel oil usage rates (in gallons).
- e) Reporting Requirements
 - (1) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas or distillate fuel oil with $\leq 0.5\%$ sulfur by weight was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
 - (2) The permittee shall notify the director (the Toledo Division of Environmental Services) in writing of any record which shows a deviation from the allowable sulfur dioxide emission limitation contained in this permit, based upon the sulfur dioxide emission rates calculated in accordance with the formula(s) specified in OAC rule 3745-18-04(F) and 40 CFR 60.44c. The notification shall include a copy of such record and shall be sent to the director (the Toledo Division of Environmental Services) within 45 days after the deviation occurs.
 - (3) The permittee shall submit quarterly deviation (excursion) reports that summarize the content of the deviation reports above, and that identify all exceedances of the rolling, 12-month facility-wide fuel usage limitation(s) for natural gas and fuel oil. The deviation reports shall be submitted by January 31, April 30, July 31 and October 31 of each year and shall cover the previous calendar quarter. If no deviations occurred during a quarterly period, the permittee shall submit a quarterly report, which states that no deviations occurred during that period. These reports shall be submitted to the Toledo Division of Environmental Services, 348 South Erie Street, Toledo, Ohio 43604.
 - (4) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be completed electronically and submitted via the Ohio EPA e-Business Center: Air Services 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.



(5) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

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:

Visible particulate emissions from the stack serving this emissions unit shall not exceed 20% opacity, as a six-minute average.

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

b. Emission Limitation:

0.08 pound NO_x per mmBtu of heat input when combusting natural gas

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit using flue gas recirculation based upon manufacturer's emissions factors.

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1-4 and Method 7 of 40 CFR, Part 60 Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

c. Emission Limitation:

0.19 pound NO_x per mmBtu of heat input when combusting fuel oil

Applicable Compliance Method:using flue gas recirculation

This emission limitation was established to reflect the potential to emit for this emissions unit based upon manufacturer's emissions factors.

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1-4 and Method 7 of 40 CFR, Part 60 Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.



d. Emission Limitation:

The combined emissions of NO_x from emissions units B011 through B014, and B019 through B022 shall not exceed 54.10 tons per rolling, 12-month period.

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for eight emissions units utilizing the allowable quantity of fuel oil (1 million gallons per year) and the allowable quantity of natural gas (1 million Mscf per year). At 140 mmBtu per 1000 gallons, fuel oil usage accounts for 140,000 mmBtu of heat input per year. At 1020 Btu per scf, natural gas oil usage accounts for 1,020,000 mmBtu of heat input per year.

The annual emissions of NO_x may be calculated as the sum of the emissions from fuel oil combustion added to the emissions from natural gas combustion. Fuel oil emissions may be calculated by multiplying the technical emissions limitation (0.19 pound of NO_x per mmBtu of heat input - worst case manufacturer's emission factor for B011–B014 and B019 – B022 by the distillate fuel oil heat input (140,000 million Btu per year) and dividing by 2000 pounds per ton. Natural gas emissions may be calculated by multiplying the technical emissions limitation (0.08 pound of NO_x per mmBtu of heat input - worst case manufacturer's emission factor for B011–B014 and B019 – B022 by the natural gas heat input (1,020,000 million Btu per year) and dividing by 2000 pounds per ton.

$$(0.19 \text{ lb/mmBtu})(140,000 \text{ mmBtu/yr})(1 \text{ t}/2000 \text{ lb}) = 13.30 \text{ tpy}$$

$$(0.08 \text{ lb/mmBtu})(1,020,000 \text{ mmBtu/yr})(1 \text{ t}/2000 \text{ lb}) = 40.80 \text{ tpy}$$

e. Emission Limitation:

0.50 pound of SO₂ per mmBtu (215 nanograms per Joule) of heat input when combusting fuel oil

Applicable Compliance Method:

Compliance with the allowable sulfur dioxide emission limitation may be demonstrated by emission rate calculations performed in accordance with the specifications of 40 CFR 60.44c.

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with Method 19 or Methods 1 through 4 and 6 of 40 CFR, Part 60 Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

f. Emission Limitation:

combust no oil that contains greater than 0.5 weight percent sulfur



Applicable Compliance Method:

Compliance may be demonstrated by the methods and procedures of 40 CFR 60.44c. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

g. Emission Limitation:

0.6 pound SO₂ per million cubic feet of heat input when combusting natural gas.

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit based upon the natural gas emission factor (0.6 pound of SO₂ per million cubic feet of natural gas) from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.4, Table 1.4-2 (7/98).

If required, the permittee shall demonstrate compliance with this emission limitation through the methods and procedures of OAC rule 3745-18-04(E)(3). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

h. Emission Limitation:

The combined emissions of sulfur dioxide (SO₂) from emissions units B011 through B014, and B019 through B022 shall not exceed 35.30 tons per rolling, 12-month period.

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for eight emissions units utilizing the allowable quantity of fuel oil (1 million gallons per year) and the allowable quantity of natural gas (1 million Mscft per year). At 140 mmBtu per 1000 gallons, fuel oil usage accounts for 140,000 mmBtu of heat input per year.

The annual emissions of SO₂ may be calculated as the sum of the emissions from fuel oil combustion added to the emissions from natural gas combustion. Fuel oil emissions may be calculated by multiplying the technical emissions limitation (0.50 pound of SO₂ per mmBtu of heat input) by the distillate fuel oil heat input (140,000 million Btu per year) and dividing by 2000 pounds per ton. Natural gas emissions may be calculated by multiplying the technical emissions limitation (0.6 pound of SO₂ per million cubic feet of natural gas) by the maximum natural gas usage rate (1,000 million cubic feet of natural gas per year) and dividing by 2000 pounds per ton.

$$(0.50 \text{ lb/mmBtu})(140,000 \text{ mmBtu/yr})(1 \text{ t}/2000 \text{ lb}) = 35.00 \text{ tpy}$$

$$(0.6 \text{ lb/mmcf})(1,000 \text{ mmcf/yr})(1 \text{ t}/2000 \text{ lb}) = 0.30 \text{ tpy}$$



i. Emission Limitation:

0.082 pound CO per mmBtu of heat input when combusting natural gas

Applicable Compliance Method:

Compliance with this emission limitation may be determined by dividing the natural gas emission factor (84 pounds of CO per million cubic feet of natural gas) from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.4, Table 1.4-1 (7/98) by the natural gas heat content (1,020 mmBtu per million cubic feet of natural gas).

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 4 and 10 of 40 CFR, Part 60 Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

j. Emission Limitation:

0.036 pound of CO per mmBtu of heat input when combusting fuel oil

Applicable Compliance Method:

Compliance with this emission limitation may be determined by dividing the distillate fuel oil emission factor (5 pounds of CO per 1000 gallons) from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.3, Table 1.3-1 (5/10), by the distillate fuel oil heat content (140 mmBtu per per 1000 gallons).

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 4 and 10 of 40 CFR, Part 60 Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

k. Emission Limitation:

9.27 tons of CO per year

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit operating at maximum capacity (25.8 mmBtu per hour) for 8760 hours per year (226,000 mmBtu per year). Natural gas has a higher emission factor than fuel oil, based on AP-42 (0.082 pounds CO per mmBtu for natural gas vs. 0.036 pound CO per mmBtu for distillate fuel oil) and the facility wide restriction on natural gas combustion is greater than the annual combustion of this emissions unit (1000 mmcuft/yr times 1,020 mmBtu/mmcuft = 1.02 million mmBtu per year), therefore the combustion of natural gas will be used to determine the potential to emit.



The annual emissions of CO may be calculated by multiplying the technical emissions limitation (0.082 pound of CO per mmBtu of heat input) by the maximum annual heat input of the emissions unit (226,000 million Btu per year) and dividing by 2000 pounds per ton.

I. Emission Limitation:

0.002 pound PE per mmBtu of heat input when combusting natural gas

Applicable Compliance Method:

Compliance with this emission limitation may be determined by dividing the natural gas emission factor (1.9 pounds of PE per million cubic feet of natural gas) from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.4, Table 1.4-2 (7/98) by the natural gas heat content (1,020 mmBtu per million cubic feet of natural gas).

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 5 of 40 CFR, Part 60 Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

m. Emission Limitation:

0.014 pound PE per mmBtu of heat input when combusting fuel oil

Applicable Compliance Method:

Compliance with this emission limitation may be determined by dividing the distillate fuel oil emission factor (2 pounds of PE per 1000 gallons) from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.3, Table 1.3-1 (5/10), by the distillate fuel oil heat content (140 mmBtu per per 1000 gallons).

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 5 of 40 CFR, Part 60 Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

n. Emission Limitation:

1.06 tons of PE per year

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit operating at maximum capacity (25.8 mmBtu per hour) for 8760 hours per year (226,000 mmBtu per year), while utilizing the maximum allowable quantity of fuel oil (1 million gallons per year). At 140 mmBtu per 1000 gallons, fuel oil usage accounts for 140,000 mmBtu of heat input per year. The balance of the heat input from the combustion of natural gas (226,000 - 140,000) equals



86,000 mmBtu per year. At 1,020 Btu per cubic foot of natural gas this usage equates to 84.3 million cubic feet of natural gas combusted per year.

The annual emissions of PE may be calculated as the sum of the emissions from fuel oil combustion added to the emissions from natural gas combustion. Fuel oil emissions may be calculated by multiplying the technical emissions limitation (0.014 pound of PE per mmBtu of heat input) by the distillate fuel oil heat input (140,000 million Btu per year) and dividing by 2000 pounds per ton. Natural gas emissions may be calculated by multiplying the technical emissions limitation (1.9 pound of PE per million cubic feet of natural gas) by the maximum natural gas usage rate (84.3 million cubic feet of natural gas per year) and dividing by 2000 pounds per ton.

$$(0.014\text{lb/mmBtu})(140,000\text{ mmBtu/yr})(1\text{ t}/2000\text{ lb}) = 0.98\text{tpy}$$

$$(1.9\text{lb/mmcf})(84.3\text{ mmcf/yr})(1\text{ t}/2000\text{ lb}) = 0.08\text{tpy}$$

o. Emission Limitation:

0.020 pound PE per mmBtu of heat input (from OAC 3745-17-10(B)(1))

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation by the test method specified in paragraph (B)(12) of rule 3745-17-01 of the Administrative Code, except that for "USEPA Method 5" the probe and filter holder heating systems in the sampling train shall be set to provide a gas temperature no greater than three hundred twenty degrees Fahrenheit (one hundred sixty degrees Celsius). The heat content of fuels shall be determined according to ASTM D5685-05 or ASTM E870-82 for solid fuels, ASTM D240-02 for liquid fuels, and ASTM D1826-94 for gaseous fuels.

p. Emission Limitation:

0.007 pound PM₁₀ per mmBtu of heat input when combusting natural gas

Applicable Compliance Method:

Compliance with this emission limitation may be determined by dividing the natural gas emission factor (7.6 pounds of PE per million cubic feet of natural gas) from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.4, Table 1.4-2 (7/98) by the natural gas heat content (1,020 mmBtu per million cubic feet of natural gas).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with Methods 201 and 202 of 40 CFR Part 51, Appendix M, or other U.S. EPA-approved test method, with prior approval from the Ohio EPA.



q. Emission Limitation:

0.024 pound PM₁₀ per mmBtu of heat input when combusting fuel oil

Applicable Compliance Method:

Compliance with this emission limitation may be determined by dividing the distillate fuel oil emission factor (3.3 pounds of PM₁₀ per 1000 gallons) from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.3, Tables 1.3-1 and 1.3-2 (5/10), by the distillate fuel oil heat content (140 mmBtu per per 1000 gallons).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with Methods 201 and 202 of 40 CFR Part 51, Appendix M, or other U.S. EPA-approved test method, with prior approval from the Ohio EPA.

r. Emission Limitation:

2.00 ton of PM₁₀ per year

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit operating at maximum capacity (25.8 mmBtu per hour) for 8760 hours per year (226,000 mmBtu per year), while utilizing the maximum allowable quantity of fuel oil (1 million gallons per year). At 140 mmBtu per 1000 gallons, fuel oil usage accounts for 140,000 mmBtu of heat input per year. The balance of the heat input from the combustion of natural gas (226,000 - 140,000) equals 86,000 mmBtu per year. At 1,020 Btu per cubic foot of natural gas this usage equates to 84.3 million cubic feet of natural gas combusted per year.

The annual emissions of PM₁₀ may be calculated as the sum of the emissions from fuel oil combustion added to the emissions from natural gas combustion. Fuel oil emissions may be calculated by multiplying the technical emissions limitation (0.024 pound of PM₁₀ per mmBtu of heat input) by the distillate fuel oil heat input (140,000 million Btu per year) and dividing by 2000 pounds per ton. Natural gas emissions may be calculated by multiplying the technical emissions limitation (7.6 pound of PM₁₀ per million cubic feet of natural gas) by the maximum natural gas usage rate (84.3 million cubic feet of natural gas per year) and dividing by 2000 pounds per ton.

$$(0.024\text{lb/mmBtu})(140,000\text{ mmBtu/yr})(1\text{ t}/2000\text{ lb}) = 1.68\text{tpy}$$

$$(7.6\text{lb/mmcuft})(84.3\text{ mmcuft/yr})(1\text{ t}/2000\text{ lb}) = 0.32\text{tpy}$$

s. Emission Limitation:

0.0054 pound VOC per mmBtu of heat input when combusting natural gas



Applicable Compliance Method:

Compliance with this emission limitation may be determined by dividing the natural gas emission factor (5.5 pounds of VOC per million cubic feet of natural gas) from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.4, Table 1.4-2 (7/98) by the natural gas heat content (1,020 mmBtu per million cubic feet of natural gas).

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 4 and 25A of 40 CFR, Part 60 Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

t. Emission Limitation:

0.002 pound VOC per mmBtu of heat input when combusting fuel oil

Applicable Compliance Method:

Compliance with this emission limitation may be determined by dividing the distillate fuel oil emission factor (0.34 pound of VOC per 1000 gallons) from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.3, Table 1.3-3 (5/10), by the distillate fuel oil heat content (140 mmBtu per per 1000 gallons).

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 4 and 25A of 40 CFR, Part 60 Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

u. Emission Limitation:

0.61 ton of VOC per year

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit operating at maximum capacity (25.8 mmBtu per hour) for 8760 hours per year (226,000 mmBtu per year). Natural gas has a higher emission factor than fuel oil, based on AP-42 (0.0054 pounds VOC per mmBtu for natural gas vs. 0.002 pound VOC per mmBtu for distillate fuel oil) and the facility wide restriction on natural gas combustion is greater than the annual combustion of this emissions unit (1000 mmcft/yr times 1,020 mmBtu/mmCft = 1.02 million mmBtu per year), therefore the combustion of natural gas will be used to determine the potential to emit.

The annual emissions of VOC may be calculated by multiplying the technical emissions limitation (0.0054 pound of VOC per mmBtu of heat input) by the



maximum annual heat input of the emissions unit (226,000 million Btu per year) and dividing by 2000 pounds per ton.

- g) Miscellaneous Requirements
 - (1) None.



2. Emissions Unit Group -Grp B017 & B018: B017,B018,

EU ID	Operations, Property and/or Equipment Description
B017	Student Rec. Center, 12.55 mmBtu/hr, natural gas fired boiler #1
B018	Student Rec. Center, 12.55 mmBtu/hr, natural gas fired boiler #2

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



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	<p>The emissions of carbon monoxide (CO) from this emissions unit shall not exceed 0.036 pound per mmBtu of heat input.</p> <p>The emissions of CO from this emissions unit shall not exceed 1.98 tons per year.</p> <p>The emissions of nitrogen oxides (NOx) from this emissions unit shall not exceed 0.117 pound per mmBtu of heat input.</p> <p>The emissions of NOx from this emissions unit shall not exceed 6.43 tons per year.</p> <p>The particulate emissions (PE) from this emissions unit shall not exceed 0.008 pound per mmBtu of heat input.</p> <p>The PE from this emissions unit shall not exceed 0.44 ton per year.</p> <p>The emissions of sulfur dioxide (SO₂) from this emissions unit shall not exceed 0.001 pound per mmBtu of heat input.</p> <p>The emissions of SO₂ from this emissions unit shall not exceed 0.055 ton per year.</p> <p>The emissions of volatile organic compounds (VOC) from this emissions unit shall not exceed 0.004 pound per mmBtu of heat input.</p> <p>The emissions of VOC from this emissions unit shall not exceed 0.22 ton per year.</p> <p>See b)(2)a. and b)(2)b.</p>
b.	OAC rule 3745-17-07(A)(1)	See b)(2)c.
c.	OAC rule 3745-17-10(B)(1)	See b)(2)d.
d.	OAC rule 3745-18-06(A)	See b)(2)e.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
e.	40 CFR Part 60 Subpart A (40 CFR 60.1-60.19)	40 CFR Part 60 Subpart A provides applicability provisions, definitions, and other general provisions that are applicable to this emissions unit.
f.	40 CFR Part 60 Subpart Dc (40 CFR 60.40-60.48) [In accordance with 40 CFR 60.40c(a), this emissions unit is a steam generating unit for which construction commenced after June 9, 1989 that has a maximum design heat input capacity of 29 megawatts (MW) (100 million British thermal units per hour (MMBtu/hr)) or less, but greater than or equal to 2.9 MW (10 MMBtu/hr) which is subject to the emission limitations/control measures specified in this section.]	In accordance with 40 CFR 60.48c(g)(1), the permittee shall record and maintain records of the amount of each fuel combusted during each operating day.

(2) Additional Terms and Conditions

- a. The hourly and annual emission limitations were established for PTI purposes to reflect the potential to emit for this emissions unit while combusting natural gas. Therefore, it is not necessary to develop monitoring, record keeping and/or reporting requirements to ensure compliance with these limitations.
- b. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).
- c. 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. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- e. OAC rule 3745-18-06(A) does not establish SO₂ emission limitations for the fuel burning equipment associated with this emissions unit because the emissions unit only employs natural gas as fuel.

c) Operational Restrictions

- (1) The permittee shall burn only 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.
- (2) The permittee shall comply with the applicable monitoring and record keeping requirements under 40 CFR Part 60, Subpart Dc, including the following sections:

60.48c(g)	Records of fuel combusted on a daily or monthly basis
60.48c(i)	Record retention policy

e) Reporting Requirements

- (1) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be completed electronically and submitted via the Ohio EPA e-Business Center: Air Services 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. Report the following in the PER report:
 - a. identify each day when a fuel other than natural gas was burned in this emissions unit.

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

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with 40 CFR Part 60, Appendix A, method 9 and the procedures specified in OAC rule 3745-17-03(B)(1). Alternative U.S. EPA approved test methods may be used with prior approval from Ohio EPA.



b. Emission Limitation:

0.036 pound CO per mmBtu of heat input.

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit based upon manufacturer's emissions factors supplied by the facility.

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1-4 and Method 10 of 40 CFR, Part 60 Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

c. Emission Limitation:

1.98 tons CO per year.

Applicable Compliance Method:

Compliance with the annual emission limitation shall be demonstrated through a calculation based on the manufacturer's emission factor (0.036 pound per mmBtu of heat input) multiplied by the maximum firing rate of 12.55 mmBtu per hour and by 8,760 hours per year, then divided by 2,000 pounds per ton.

d. Emission Limitation:

0.117 pound NO_x per mmBtu of heat input.

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit based upon manufacturer's emissions factors supplied by the facility.

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1-4 and Method 7 of 40 CFR, Part 60 Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

e. Emission Limitation:

6.43 tons NO_x per year.

Applicable Compliance Method:

Compliance with the annual emission limitation shall be demonstrated through a calculation based on the manufacturer's emission factor (0.117 pound per mmBtu of heat input) multiplied by the maximum firing rate of 12.55 mmBtu per hour and by 8,760 hours per year, then divided by 2,000 pounds per ton.



f. Emission Limitation:

0.008 pound PE per mmBtu of heat input.

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit based upon manufacturer's emissions factors supplied by the facility.

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1-5 of 40 CFR, Part 60 Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

g. Emission Limitation:

0.44 ton PE per year.

Applicable Compliance Method:

Compliance with the annual emission limitation shall be demonstrated through a calculation based on the manufacturer's emission factor (0.008 pound per mmBtu of heat input) multiplied by the maximum firing rate of 12.55 mmBtu per hour and by 8,760 hours per year, then divided by 2,000 pounds per ton.

h. Emission Limitation:

0.001 pound SO₂ per mmBtu of heat input.

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit based upon manufacturer's emissions factor supplied by the facility.

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Method 19 or Methods 1 through 4 and 6 of 40 CFR, Part 60 Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

i. Emission Limitation:

0.055 ton SO₂ per year.

Applicable Compliance Method:

Compliance with the annual emission limitation shall be demonstrated through a calculation based on the manufacturer's emission factor (0.001 pound per



mmBtu of heat input) multiplied by the maximum firing rate of 12.55 mmBtu per hour and by 8,760 hours per year, then divided by 2,000 pounds per ton.

j. Emission Limitation:

0.004 pound VOC per mmBtu of heat input.

This emission limitation was established to reflect the potential to emit for this emissions unit based upon manufacturer's emissions factors supplied by the facility.

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 25 or 25A of 40 CFR, Part 60 Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

k. Emission Limitation:

0.22 ton VOC per year.

Applicable Compliance Method:

Compliance with the annual emission limitation shall be demonstrated through a calculation based on the manufacturer's emission factor (0.004 pound per mmBtu of heat input) multiplied by the maximum firing rate of 12.55 mmBtu per hour and by 8,760 hours per year, then divided by 2,000 pounds per ton.

g) Miscellaneous Requirements

(1) None.