



John R. Kasich, Governor  
Mary Taylor, Lt. Governor  
Scott J. Nally, Director

3/7/2013

Certified Mail

Mr. Christopher Tumbusch  
Wright-Patterson Air Force Base  
1450 Littrell Road  
WPAFB, OH 45433-5209

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL  
Facility ID: 0829700441  
Permit Number: P0112688  
Permit Type: Administrative Modification  
County: Greene

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT/GACT
No	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED
No	MAJOR GHG
No	SYNTHETIC MINOR TO AVOID MAJOR GHG

Dear Permit Holder:

Enclosed please find a final Ohio Environmental Protection Agency (EPA) Air Pollution Permit-to-Install (PTI) which will allow you to install or modify the described emissions unit(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, we urge you to read it carefully. 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 PTI 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](http://www.ohioairquality.org/clean_air)

## **How to give us feedback on your permitting experience**

Please complete a survey at [www.epa.ohio.gov/dapc/pemitsurvey.aspx](http://www.epa.ohio.gov/dapc/pemitsurvey.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](http://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 Regional Air Pollution Control Agency at (937)225-4435 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: U.S. EPA  
RAPCA; Indiana; Kentucky



**FINAL**

**Division of Air Pollution Control  
Permit-to-Install  
for  
Wright-Patterson Air Force Base**

Facility ID:	0829700441
Permit Number:	P0112688
Permit Type:	Administrative Modification
Issued:	3/7/2013
Effective:	3/7/2013





**Division of Air Pollution Control**  
**Permit-to-Install**  
for  
Wright-Patterson Air Force Base

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**Final Permit-to-Install**  
Wright-Patterson Air Force Base  
**Permit Number:** P0112688  
**Facility ID:** 0829700441  
**Effective Date:** 3/7/2013

## Authorization

Facility ID: 0829700441  
Facility Description: national security  
Application Number(s): A0046081  
Permit Number: P0112688  
Permit Description: Administrative Modification to convert four boilers from dual fueled (oil and natural gas) to natural gas only.  
Permit Type: Administrative Modification  
Permit Fee: \$0.00  
Issue Date: 3/7/2013  
Effective Date: 3/7/2013

This document constitutes issuance to:

Wright-Patterson Air Force Base  
88 ABW/CEVY  
1450 Littrell Road - Bldg 22  
Wright-Patterson AFB, OH 45433-5209

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

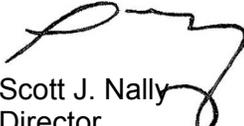
Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Regional Air Pollution Control Agency  
117 South Main Street  
Dayton, OH 45422-1280  
(937)225-4435

The above named entity is hereby granted a Permit-to-Install for the 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 emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

  
Scott J. Nally  
Director



## Authorization (continued)

Permit Number: P0112688

Permit Description: Adminsitrative Modification to convert four boilers from dual fueled (oil and natural gas) to natural gas only.

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

<b>Emissions Unit ID:</b>	<b>B113</b>
Company Equipment ID:	3003
Superseded Permit Number:	08-1984
General Permit Category and Type:	Not Applicable

**Group Name: NG Boilers Facility 34019**

<b>Emissions Unit ID:</b>	<b>B604</b>
Company Equipment ID:	2038
Superseded Permit Number:	08-179
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>B605</b>
Company Equipment ID:	2040
Superseded Permit Number:	08-180
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>B660</b>
Company Equipment ID:	5524
Superseded Permit Number:	08-3554
General Permit Category and Type:	Not Applicable



**Final Permit-to-Install**  
Wright-Patterson Air Force Base  
**Permit Number:** P0112688  
**Facility ID:** 0829700441  
**Effective Date:** 3/7/2013

## **A. Standard Terms and Conditions**



## **1. Federally Enforceable Standard Terms and Conditions**

- a) All Standard Terms and Conditions are federally enforceable, with the exception of those listed below which are enforceable under State law only:
  - (1) Standard Term and Condition A.2.a), Severability Clause
  - (2) Standard Term and Condition A.3.c) through A. 3.e) General Requirements
  - (3) Standard Term and Condition A.6.c) and A. 6.d), Compliance Requirements
  - (4) Standard Term and Condition A.9., Reporting Requirements
  - (5) Standard Term and Condition A.10., Applicability
  - (6) Standard Term and Condition A.11.b) through A.11.e), Construction of New Source(s) and Authorization to Install
  - (7) Standard Term and Condition A.14., Public Disclosure
  - (8) Standard Term and Condition A.15., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations
  - (9) Standard Term and Condition A.16., Fees
  - (10) Standard Term and Condition A.17., Permit Transfers

## **2. Severability Clause**

- a) A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.
- b) All terms and conditions designated in parts B and C of this permit are federally enforceable as a practical matter, if they are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA and the State and by citizens (to the extent allowed by section 304 of the Act) under the Act. Terms and conditions in parts B and C of this permit shall not be federally enforceable and shall be enforceable under State law only, only if specifically identified in this permit as such.

## **3. General Requirements**

- a) The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and re-issuance, or modification.



- b) It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c) This permit may be modified, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d) This permit does not convey any property rights of any sort, or any exclusive privilege.
- e) The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

#### **4. Monitoring and Related Record Keeping and Reporting Requirements**

- a) Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
  - (1) The date, place (as defined in the permit), and time of sampling or measurements.
  - (2) The date(s) analyses were performed.
  - (3) The company or entity that performed the analyses.
  - (4) The analytical techniques or methods used.
  - (5) The results of such analyses.
  - (6) The operating conditions existing at the time of sampling or measurement.
- b) Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
- c) Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
  - (1) Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the Regional Air Pollution Control Agency.



- (2) Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the Regional Air Pollution Control Agency. The written reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See A.15. below if no deviations occurred during the quarter.
  - (3) Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted (i.e., postmarked) to the Regional Air Pollution Control Agency every six months, by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
  - (4) This permit is for an emissions unit located at a Title V facility. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
- d) The permittee shall report actual emissions pursuant to OAC Chapter 3745-78 for the purpose of collecting Air Pollution Control Fees.

## **5. Scheduled Maintenance/Malfunction Reporting**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the Regional Air Pollution Control Agency in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to OAC rule 3745-15-06.

Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emission unit(s) that is (are) served by such control system(s).

## **6. Compliance Requirements**

- a) The emissions unit(s) identified in this Permit shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.
- b) Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.



- c) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
  - (1) At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
  - (2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.
  - (3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
  - (4) As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- d) The permittee shall submit progress reports to the Regional Air Pollution Control Agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
  - (1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
  - (2) An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

## **7. Best Available Technology**

As specified in OAC Rule 3745-31-05, new sources that must employ Best Available Technology (BAT) shall comply with the Applicable Emission Limitations/Control Measures identified as BAT for each subject emissions unit.

## **8. Air Pollution Nuisance**

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

## **9. Reporting Requirements**

The permittee shall submit required reports in the following manner:

- a) Reports of any required monitoring and/or recordkeeping of state-only enforceable information shall be submitted to the Regional Air Pollution Control Agency.
- b) Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from state-only required emission limitations, operational restrictions, and control device operating parameter limitations that have



been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the Regional Air Pollution Control Agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

## **10. Applicability**

This Permit-to-Install is applicable only to the emissions unit(s) identified in the Permit-to-Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

## **11. Construction of New Sources(s) and Authorization to Install**

- a) This permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. This permit does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the application and terms and conditions of this permit. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of this permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Issuance of this permit is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.
- b) If applicable, authorization to install any new emissions unit included in this permit shall terminate within eighteen months of the effective date of the permit if the owner or operator has not undertaken a continuing program of installation or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.
- c) The permittee may notify Ohio EPA of any emissions unit that is permanently shut down (i.e., 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) by submitting a certification from the authorized official that identifies the date on which the emissions unit was permanently shut down. Authorization to operate the affected emissions unit shall cease upon the date certified by the authorized official that the emissions unit was permanently shut down. At a minimum, notification of permanent shut down shall be made or confirmed by marking the affected emissions unit(s) as "permanently shut down" in Ohio EPA's "Air Services" along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update will constitute notifying of the permanent shutdown of the affected emissions unit(s).



- d) The provisions of this permit shall cease to be enforceable for each affected emissions unit after the date on which an emissions unit is permanently shut down (i.e., 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). All records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law. All reports required by this permit must be submitted for any period an affected emissions unit operated prior to permanent shut down. At a minimum, the permit requirements must be evaluated as part of the reporting requirements identified in this permit covering the last period the emissions unit operated.

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

- e) The permittee shall comply with any residual requirements related to this permit, such as the requirement to submit a deviation report, air fee emission report, or other any reporting required by this permit for the period the operating provisions of this permit were enforceable, or as required by regulation or law. All reports shall be submitted in a form and manner prescribed by the Director. All records relating to this permit must be maintained in accordance with law.

## **12. Permit-To-Operate Application**

The permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77. The permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).

## **13. Construction Compliance Certification**

The applicant shall identify the following dates in the online facility profile for each new emissions unit identified in this permit.

- a) Completion of initial installation date shall be entered upon completion of construction and prior to start-up.
- b) Commence operation after installation or latest modification date shall be entered within 90 days after commencing operation of the applicable emissions unit.

## **14. Public Disclosure**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.



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

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly (i.e., postmarked), by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

**16. Fees**

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable permit-to-install fees within 30 days after the issuance of any permit-to-install. The permittee shall pay all applicable permit-to-operate fees within thirty days of the issuance of the invoice.

**17. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The new owner must update and submit the ownership information via the "Owner/Contact Change" functionality in Air Services once the transfer is legally completed. The change must be submitted through Air Services within thirty days of the ownership transfer date.

**18. Risk Management Plans**

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

**19. Title IV Provisions**

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.



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Wright-Patterson Air Force Base  
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## **B. Facility-Wide Terms and Conditions**



1. All the following facility-wide terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:
  - a) None.
2. This facility is subject to 40 CFR Part 63, Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants (NESHAP) for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters.

As defined in 40 CFR Part 63.7575 the “Unit designed to burn gas 1 subcategory” includes any boiler or process heater that burns only natural gas, refinery gas, and/or other gas 1 fuels; with the exception of liquid fuels burned for periodic testing not to exceed a combined total of 48 hours during any calendar year, or during periods of gas curtailment and gas supply emergencies.

Emissions units B113, B118, B302, B312, B355, B604, B605, and B660 only use natural as fuel and must comply with the requirements for the “unit designed to burn gas 1 subcategory” as identified in the following table:

40 CFR 63.7521(f) through (i)	Fuel analyses and specifications for fuels other than natural gas
40 CFR 63.7530 (d) through (g)	Initial compliance demonstration
40 CFR 63.7540(a) and (c)	Continuous compliance with emissions limitations, fuel specifications and work practice standards
40 CFR 63.7545(a) through (c), (e) and (f)	Notification requirements
40 CFR 63.7550	Reporting requirements
40 CFR 63.7560	Records form and retention
40 CFR 63.7565	General provisions
40 CFR 63.7575	Definitions

3. This facility is subject to 40 CFR Part 63, Subpart A, NESHAP: General Provisions. The applicable provisions of 40 CFR Part 63, Subpart A (required for compliance with 40 CFR Part 63, Subpart DDDDD) are identified in Table 10. of 40 CFR Part 63, Subpart DDDDD.



**Final Permit-to-Install**  
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## **C. Emissions Unit Terms and Conditions**



**1. B113, WPAFB Equipment ID: 3003**

**Operations, Property and/or Equipment Description:**

Boiler; 16.75 MMBTU; gas-fired; F/10840, Boiler #5

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) PTI 08-1984 issued June 14, 1999	<p>The particulate emissions (PE) from this emissions unit shall not exceed 0.335 pound per hour and 1.47 tons per year.</p> <p>The nitrogen oxides (NOx) emissions from this emissions unit shall not exceed 0.84 pound per hour and 3.67 tons per year.</p> <p>The carbon monoxide (CO) emissions from this emissions unit shall not exceed 1.41 pounds per hour and 6.18 tons per year.</p> <p>See b)(2)a., and c)(1).</p> <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-10(B), and</p>
b.	OAC rule 3745-17-07(A)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
c.	OAC rule 3745-17-10(B)	The PE from this emissions unit shall not exceed 0.020 pound per million Btu of actual heat input.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
d.	40 CFR Part 60, Subpart Dc	See c)(1)., d)(1), and e)(1).
e.	40 CFR Part 63, Subpart DDDDD	See Section B.2. and c)(1).
f.	40 CFR Part 63, Subpart A	See Section B.3.

(2) Additional Terms and Conditions

a. The hourly emissions limitations were developed to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limits.

c) Operational Restrictions

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

d) Monitoring and/or Record Keeping 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 maintain monthly records of the volume of natural gas burned in this emissions unit, in million cubic feet.

e) Reporting Requirements

(1) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. The report shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days after the deviation occurs.

(2) The permittee shall submit annual reports that summarize the actual annual fuel usage for the previous calendar year for this emissions unit. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual FER.

f) Testing Requirements

(1) Compliance with the emissions limitations specified in b) shall be determined in accordance with the following methods:

a. Emissions Limitation-

The PE from this emissions unit shall not exceed 0.335 pound per hour.

Applicable Compliance Method-

When burning natural gas, compliance shall be determined by multiplying the emission factor for natural gas (1.9 pounds PE/million cubic feet) as specified in



AP-42 Table 1.4-2 (7/98), by the maximum hourly gas burning capacity (0.01675 million cubic feet/hour) of the emissions unit.

If requested, compliance with the limitation above shall be demonstrated in accordance with OAC rule 3745-17-03(B)(9) and U.S. EPA Reference Methods 1 through 5.

b. Emissions Limitation-

The PE from this emissions unit shall not exceed 1.47 tons per year.

Applicable Compliance Method-

The annual emission limitation was developed by multiplying the hourly emission limitation by 8,760 hours per year, and then dividing by 2,000 pounds per ton. Therefore, as long as compliance with the hourly allowable emission limitation is maintained, compliance with the annual emission limitation shall be ensured.

c. Emissions Limitation-

The NO<sub>x</sub> emissions from this emissions unit shall not exceed 0.84 pounds per hour.

Applicable Compliance Method-

When burning natural gas, compliance shall be determined by multiplying the emission factor for natural gas (50 pounds NO<sub>x</sub>/million cubic feet), from AP-42, Table 1.4-1 (revised 7/98), by the maximum hourly gas burning capacity (million cubic feet/hour) of the emissions unit.

If requested, the permittee shall demonstrate compliance with the hourly allowable NO<sub>x</sub> emission limitation in accordance with U.S. Reference Methods 1 - 4 and 7.

d. Emissions Limitation-

The NO<sub>x</sub> emissions from this emissions unit shall not exceed 3.67 tons per year.

Applicable Compliance Method-

The annual emission limitation was developed by multiplying the hourly emission limitation by 8,760 hours per year, and then dividing by 2,000 pounds per ton. Therefore, as long as compliance with the hourly allowable emission limitation is maintained, compliance with the annual emission limitation shall be ensured.

e. Emissions Limitation-

The CO emissions from this emissions unit shall not exceed 1.41 pounds per hour.



Applicable Compliance Method-

When burning natural gas, compliance shall be determined by multiplying the emission factor for natural gas (84 pounds CO/million cubic feet), from AP-42, Table 1.4-1 (revised 7/98), by the maximum hourly gas burning capacity (million cubic feet/hour) of the emissions unit.

If requested, the permittee shall demonstrate compliance with the hourly allowable CO emission limitation in accordance with Methods 1 - 4 and 10 of 40 CFR, Part 60, Appendix A.

f. Emissions Limitation-

The CO emissions from this emissions unit shall not exceed 6.18 tons per year.

Applicable Compliance Method-

The annual emission limitation was developed by multiplying the hourly emission limitation by 8,760 hours per year, and then dividing by 2,000 pounds per ton. Therefore, as long as compliance with the hourly allowable emission limitation is maintained, compliance with the annual emission limitation shall be ensured.

g. Emission Limitation -

The PE from these emissions units shall not exceed 0.020 pound per million Btu actual heat input.

Applicable Compliance Method -

When burning natural gas, compliance shall be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (million cubic feet/hour) by the emission factor of 1.9 pounds PE/million cubic feet, from AP-42, Table 1.4-2 (revised 7/98), and then dividing by the maximum hourly heat input capacity of the emissions unit (mmBtu/hour).

If requested, compliance with the limitation above shall be demonstrated in accordance with OAC rule 3745-17-03(B)(9) and U.S. EPA Reference Methods 1 through 5.

h. Emission Limitation -

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

Applicable Compliance Method -

If requested, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in U.S. EPA Reference Method 9.



**Final Permit-to-Install**  
Wright-Patterson Air Force Base  
**Permit Number:** P0112688  
**Facility ID:** 0829700441  
**Effective Date:** 3/7/2013

g) Miscellaneous Requirements

(1) None.



**2. Emissions Unit Group -NG Boilers Facility 34019: B604 (WPAFB ID: 2038), B605 (WPAFB ID: 2040), B660 (WPAFB ID 5524)**

EU ID	Operations, Property and/or Equipment Description
B604	Boiler; 18.3 MMBTU; gas-fired; F/34019
B605	Boiler; 18.3 MMBTU; gas-fired; F/34019
B660	Boiler; 18.75 MMBtu; gas-fired; F/34019

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) B604 - PTI 08-179 issued October 16, 1981  B605 – PTI 08-180 issued October 16, 1981	<u>Emissions Units B604 and B605:</u>  The particulate emissions (PE) from each of these emissions units shall not exceed 0.61 ton per year.  See c)(1) and c)(2).  The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-10(B) and 3745-17-07(A).
b.	OAC rule 3745-31-05(A)(3) PTI 08-3554 issued June 14, 1999	<u>Emissions Unit B660:</u>  The PE from this emissions unit shall not exceed 0.38 pound per hour and 1.24 tons per year.  The nitrogen oxides (NOx) emissions from this emission unit shall not exceed 0.91 pound per hour and 2.98 tons per year.  The carbon monoxide (CO) emissions from this emissions unit shall not exceed



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		1.53 pounds per hour and 5.01 tons per year.  See b)(2)a, c)(1) and c)(3)  The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-10(B) and 3745-17-07(A).
c.	OAC rule 3745-17-10(B)	The PE from these emissions units shall not exceed 0.020 pound per million Btu actual heat input.
d.	OAC rule 3745-17-07(A)	Visible particulate emissions from the stack serving these emissions units shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
e.	40 CFR Part 63, Subpart DDDDD	See Section B.2. and c(1).
f.	40 CFR Part 63, Subpart A	See Section B.3.

(2) Additional Terms and Conditions

a. The hourly emissions limitations for emissions unit B660 were developed to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limits.

c) Operational Restrictions

- (1) The permittee shall burn only natural gas in these emissions units.
- (2) The maximum annual operating hours for emissions unit B604 or B605 shall not exceed 3,696 hours.
- (3) The annual operating hours for emissions unit B660 shall not exceed 6,552 hours.

d) Monitoring and/or Record Keeping 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 these emissions units.
- (2) The permittee shall calculate and maintain monthly records of the following information for each of these emissions units:
  - a. the natural gas usage rate, in million cubic feet,
  - b. The hours of operation for each emissions unit.



e) Reporting Requirements

- (1) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in these emissions units. The report shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days after the deviation occurs.
- (2) The permittee shall submit annual reports that summarize the actual annual fuel usage for the previous calendar year for these emissions units. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual FER.
- (3) The permittee shall submit annual reports that summarize the following information for the previous calendar year:
  - a. the total hours of operation for each of these emissions units;
  - b. the PE emissions rate, in tons for each of these emissions units;
  - c. the NOx emissions rate, in tons, for each of these emissions units;
  - d. the CO emissions rate, in tons, for each of these emissions units; and

The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for each emissions unit in the annual FER.

f) Testing Requirements

- (1) Compliance with the emissions limitations specified in b) for emissions units B604 and B605 shall be determined in accordance with the following methods:
  - a. Emissions Limitation –  
The PE from each of these emissions units shall not exceed 0.61 ton per year.  
Applicable Compliance Method -  
Compliance shall be determined by multiplying the monthly natural gas usage rate, by the emission factor of 1.9 pounds PE/million cubic feet, from AP-42, Table 1.4-2 (revised 7/98) divided by 2,000 pounds per ton and the sum of the monthly PE rates for the calendar year.
- (2) Compliance with the emission limitations specified in b) for emissions unit B660 shall be determined in accordance with the following method(s):
  - a. Emission Limitation -  
The PE from this emissions unit shall not exceed 0.38 pound per hour.



Applicable Compliance Method -

Compliance shall be determined by multiplying the emission factor for natural gas (1.9 pounds PE/million cubic feet), from AP-42, Table 1.4-2 (revised 7/98), by the maximum hourly gas burning capacity (0.1875 million cubic feet/hour) of the emissions unit.

If requested, compliance with the limitation above shall be demonstrated in accordance with OAC rule 3745-17-03(B)(9) and U.S. EPA Reference Methods 1 through 5.

b. Emission Limitation -

The PE from this emissions unit shall not exceed 1.24 tons per year.

Applicable Compliance Method -

Compliance shall be based upon the natural gas record keeping requirements of d)(1) multiplied by the emission factor of 1.9 pounds PE/million cubic feet, from AP-42, Table 1.4-2 (revised 7/98), and the sum of the 12 monthly PE rates for the calendar year.

c. Emission Limitation -

The NOx emissions from this emission unit shall not exceed 0.91 pound per hour.

Applicable Compliance Method -

Compliance shall be determined by multiplying the emission factor for natural gas combustion with low NOx burners (50 pounds NOx/million cubic feet), from AP-42, Table 1.4-1 (revised 7/98), by the maximum hourly gas burning capacity (0.1875 million cubic feet/hour) of the emissions unit.

If required, the permittee shall demonstrate compliance with the hourly allowable NOx emission limitation in accordance with U.S. EPA Reference Methods 1 - 4 and 7.

d. Emission Limitation -

The NOx emissions from this emission unit shall not exceed 2.98 tons per year

Applicable Compliance Method -

Compliance shall be based upon the natural gas record keeping requirements of d)(1) multiplied by the emission factor of (50 pounds NOx/million cubic feet), from AP-42, Table 1.4-1 (revised 7/98), and the sum of the 12 monthly PE rates for the calendar year.



e. Emission Limitation -

The CO emissions from this emissions unit shall not exceed 1.53 pounds per hour.

Applicable Compliance Method -

Compliance shall be determined by multiplying the emission factor for natural gas (84 pounds CO/million cubic feet), from AP-42, Table 1.4-1 (revised 7/98), by the maximum hourly gas burning capacity (0.1875 million cubic feet/hour) of the emissions unit.

If requested, the permittee shall demonstrate compliance with the hourly allowable CO emission limitation in accordance with U.S. Reference Methods 1 - 4 and 10.

f. Emission Limitation -

The CO emissions from this emissions unit shall not exceed 5.01 tons per year.

Applicable Compliance Method -

Compliance shall be based upon the natural gas record keeping requirements of d)(1) multiplied by the emission factor of (84 pounds CO/million cubic feet), from AP-42, Table 1.4-1 (revised 7/98), and the sum of the 12 monthly PE rates for the calendar year.

(3) Compliance with the emission limitation(s) in b)(1)c. and b)(1)d. for these emissions units shall be determined in accordance with the following method(s):

a. Emission Limitation -

The PE from these emissions units shall not exceed 0.020 pound per million Btu actual heat input.

Applicable Compliance Method -

When burning natural gas, compliance shall be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (million cubic feet/hour) by the emission factor of 1.9 pounds PE/million cubic feet, from AP-42, Table 1.4-2 (revised 7/98), and then dividing by the maximum hourly heat input capacity of the emissions unit (mmBtu/hour).

If requested, compliance with the limitation above shall be demonstrated in accordance with OAC rule 3745-17-03(B)(9) and U.S. EPA Reference Methods 1 through 5.



b. Emission Limitation -

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

Applicable Compliance Method –

If requested, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in U.S. EPA Reference Method 9.

g) Miscellaneous Requirements

(1) None.