



State of Ohio Environmental Protection Agency

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RE: **FINAL PERMIT TO INSTALL MODIFICATION CERTIFIED MAIL**
GREENE COUNTY
Application No: 08-03705

	TOXIC REVIEW
	PSD
	SYNTHETIC MINOR
	CEMS
	MACT
	NSPS
	NESHAPS
	NETTING
	MAJOR NON-ATTAINMENT
	MODELING SUBMITTED
	GASOLINE DISPENSING FACILITY

DATE: 1/25/2001

Wright Patterson Air Force Base
Connie Strobbe
88 ABW/EMP, 5490 Pearson Rd
WPAFB, OH 454335332

Enclosed Please find a modification to the Ohio EPA Permit To Install referenced above which will modify the terms and conditions.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 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. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
236 East Town Street, Room 300
Columbus, Ohio 43215

Very truly yours,

Thomas G. Rigo, Manager
Field Operations and Permit Section
Division of Air Pollution Control

CC: USEPA

RAPCA

FINAL ADMINISTRATIVE MODIFICATION OF PERMIT TO INSTALL 08-03705

Application Number: **08-03705**APS Premise Number: **0829700441**Permit Fee: **\$0**Name of Facility: **Wright Patterson Air Force Base**Person to Contact: **Connie Strobbe**Address: **88 ABW/EMP, 5490 Pearson Rd
WPAFB, OH 454335332**Location of proposed air contaminant source(s) [emissions unit(s)]:
**5490 Pearson Rd
WPAFB, OHIO**

Description of modification:

Mod for PTI #08-03705, issued 4/22/98, to revise allowable CO emission rates from 1.92 lbs/hr & 0.77 TPY to 4.48 lbs/hr & 1.79 TPY to reflect change in applicable AP-42 emissions factors.

The above named entity is hereby granted a modification to the permit to install described above pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this modification does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described source(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 included in the application, the above described source(s) of pollutants will be granted the necessary operating permits.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency



Director

GENERAL PERMIT CONDITIONS

TERMINATION OF PERMIT TO INSTALL

Substantial construction for installation must take place within 18 months of the effective date of this permit. 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.

NOTICE OF INSPECTION

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above-named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, or to examine records or reports pertaining to the construction, modification or installation of the source(s) of environmental pollutants identified within this permit.

CONSTRUCTION OF NEW SOURCES

The proposed source(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

If the construction of the proposed source(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of Ohio Administrative Code (OAC) Rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install 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 applicable standards.

PERMIT TO INSTALL FEE

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 30 days of the effective date of this permit to install.

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.

APPLICABILITY

This Permit to Install is applicable only to the contaminant sources identified. Separate application must be made to the Director for the installation or modification of any other contaminant sources.

BEST AVAILABLE TECHNOLOGY

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

PERMIT TO OPERATE APPLICATION AND OPERATION AFTER COMPLETION OF CONSTRUCTION

If 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).

If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this Permit To Install is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. Permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within thirty (30) days after commencing operation of the source(s) covered by this permit.

AIR EMISSION SUMMARY

The air contaminant emissions units listed below comprise the Permit to Install for **Wright Patterson Air Force Base** located in **GREENE** County. The emissions units listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

<u>Ohio EPA Source Number</u>	<u>Source Identification Description</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
P312 modification (b)	55 MMBtu/hr natural gas fired, compressed air heater, Building 20018C, Emission unit No. 2425 (use of additional fuels JP-4, JP-8, and kerosene)	(c)	3745-31-05	0.020 lb PM/MMBtu, 0.44 TPY PM; 21.75 lbs/hr, 8.70 TPY SO ₂ ; 7.66 lbs/hr, 3.06 TPY NO _x ; 4.48 lbs/hr, 1.79 TPY CO; 0.21 lb/hr, 0.08 TPY OC Opacity shall not exceed 10 percent, as a 6-minute average, except as provided by rule
			3745-17-07(A)	(d)
			3745-17-10(B)(1)	(e)

- (a) The annual allowable emissions are based on a rolling 12 month summation.
- (b) This modification represents an increase in allowable particulate matter, sulfur dioxide, nitrogen oxide, and carbon monoxide emissions of 0.01 TPY, 8.69 TPY, 0.13 TPY, and 1.06 TPY, respectively, over that authorized by PTI No. 08-3481. This modification represents a decrease in allowable organic compound emissions of 0.04 TPY, from that authorized by PTI No. 08-3481.
- (c) BAT has been determined to be in compliance with the applicable OAC Rules and the specified allowable emission rates through limited operating hours; record keeping and reporting requirements.
- (d) The limitation specified by this rule is less stringent than that established by OAC Rule 3745-31-05.

- (e) The limitation specified by this rule is the same as that established by OAC Rule 3745-31-05.

SUMMARY
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
PM	0.44
SO ₂	8.70
NO _x	3.06
CO	1.79
OC	0.08

RECORD(S) RETENTION AND AVAILABILITY

All records required by this Permit to Install shall be retained on file for a period of not less than three years unless otherwise indicated by Ohio Environmental Protection Agency. All records shall be made available to the Director, or any representative of the Director, for review during normal business hours.

REPORTING REQUIREMENTS

Unless otherwise specified, reports required by the Permit to Install need only be submitted to Regional Air Pollution Control, 451 West Third Street, Dayton, Ohio 45422.

AIR POLLUTION NUISANCES PROHIBITED

The air contaminant source(s) identified in this permit may not cause a public nuisance in violation of OAC Rule 3745-15-07.

ADDITIONAL SPECIAL TERMS AND CONDITIONS

A. Operational Restrictions

1. The maximum annual operating hours for this emissions unit shall not exceed 800 hours, based upon a rolling, 12-month summation of the operating hours.
2. The fuels used in this emissions unit shall be limited to natural gas, kerosene, JP-4 and JP-8.
3. The maximum hourly fuel usage rate for this emissions unit shall not exceed 383 gallons/hour of kerosene, JP-8 or JP-4.

B. Record keeping Requirements

1. The permittee shall maintain monthly records of the following information:
 - a. the operating hours for each month; and,
 - b. the rolling, 12-month summation of the operating hours.

C. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all exceedance of the rolling, 12 month operating hours limitation and/or the maximum hourly fuel usage limitation. These reports shall be submitted in the following manner:
 - a. reports of any required monitoring and/or record keeping information shall be submitted to the Regional Air Pollution Control Agency; and,
 - b. except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (1) any deviations (excursions) from emission limitations, operation restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and record keeping requirements specified in this permit, (2) the probable cause of such deviations, and (3) any corrective actions or preventative 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 report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., 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.)

D. Compliance Method Determinations

1. Compliance with the emissions limitation(s) specified above shall be determined in accordance with the following method(s):

a. Emission Limitation

0.020 pound particulate/MMBtu actual heat input

Applicable Compliance Method

For the use of natural gas, compliance shall be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (52,376 cubic feet/hour) by the AP-42 emission factor for natural gas (14.0 pounds/mm cu ft) and dividing by the maximum hourly heat input capacity of the emissions unit (55 MMBtu/hour). For the use of an alternative fuel (JP-4, JP-8 or kerosene) compliance shall be determined by multiplying the maximum fuel usage rate

of the emissions unit (383 gallons/hour) by the AP-42 emission factor for distillate oils (2 pounds/1000 gallons) and dividing by the maximum hourly heat input capacity of the emissions unit (55 MMBtu/hour).

b. Emission Limitation

0.44 TPY particulate

Applicable Compliance Method

Compliance shall be determined by multiplying the maximum hourly heat input capacity of the emissions unit (55 MMBtu/hour) by the 0.020 pound PM/MMBtu limitation and by the maximum operating schedule of 800 hours/year, and dividing by 2000 pounds/ton. Therefore, compliance shall be based upon the actual rolling 12 month summation of the operating hours times the maximum hourly heat input capacity of the emissions unit (55 MMBtu/hour), multiplied by the 0.020 pound PM/MMBtu limitation, and divided by 2000 pounds/ton.

c. Emission Limitation

21.75 pounds/hour SO₂

Applicable Compliance Method

Compliance shall be determined by multiplying the maximum fuel usage rate (383 gallons/hour) of the emissions unit by the AP-42 emission factor for distillate oil [142(S) pounds/1000 gallons, where S is the percent sulfur (.4) of the JP-4 fuel].

d. Emission Limitation

8.70 TPY SO₂

Applicable Compliance Method

The 8.70 TPY limitation was developed by multiplying the 21.75 pounds/hour limitation by the maximum operating schedule of 800 hours/year, and dividing by 2000 pounds/ton. Therefore, compliance shall be based upon the actual rolling 12 month summation of the operating hours times the 21.75 pounds/hour limitation, divided by 2000 pounds/ton.

e. Emission Limitation

7.66 pounds/hour NO_x

Applicable Compliance Method

Compliance shall be determined by multiplying the maximum fuel usage rate (383

gallons/hour) of the emissions unit by the AP-42 emission factor for distillate oil (20 pounds/1000 gallons).

f. Emission Limitation

3.06 TPY NO_x

Applicable Compliance Method

The 3.06 TPY limitation was developed by multiplying the 7.66 pounds/hour limitation by the maximum operating schedule of 800 hours/year, and dividing by 2000 pounds/ton. Therefore, compliance shall be based upon the actual rolling 12 month summation of the operating hours times the 7.66 pounds/hour limitation, divided by 2000 pounds/hour.

g. Emission Limitation

4.48 pounds/hour CO

Applicable Compliance Method

Compliance shall be determined by multiplying the maximum fuel usage rate (0.0533 mm cu ft/hour) of the emissions unit by the AP-42 emission factor for natural gas (84 pounds/mm cu ft) of the emissions unit.

h. Emission Limitation

1.79 TPY CO

Applicable Compliance Method

The 1.79 TPY limitation was developed by multiplying the 4.48 pounds/hour by the maximum operating schedule of 800 hours/year, and dividing by 2000 pounds/ton. Therefore, compliance shall be based upon the actual rolling 12 month summation of the operating hours times the 4.48 pounds/hour limitation, divided by 2000 pounds/ton.

i. Emission Limitation

0.21 pound/hour organic compounds

Applicable Compliance Method

Compliance shall be determined by multiplying the maximum fuel usage rate (383 gallons/hour) of the emissions unit by the AP-42 emission factor for distillate oil (0.556 pound/1000 gallons).

j. Emission Limitation

0.08 TPY organic compounds

Applicable Compliance Method

The 0.08 TPY limitation was developed by multiplying the .21 pound/hour limitation by the maximum operating schedule of 800 hours/year, and dividing by 2000 pounds/ton. Therefore, compliance shall be based upon the actual rolling 12 month summation of the operating hours times the 0.21 pound/hour limitation, divided by 2000 pounds/ton.

k. Operation Limitation

800 hours/year

Applicable Compliance Method

Compliance shall be based upon record keeping specified in Additional Special Term and Condition B.1, and reporting specified in Additional Special Term and Condition C.1.

l. Emission Limitation

10 percent opacity visible emission limitation, as a six-minute average

Applicable Compliance Method

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 USEPA Reference Method 9.

E. Miscellaneous Requirements

1. This permit to install shall supercede all the air pollution control requirements for this emission unit contained in Permit to Install No. 08-3481, as issued on February 28, 1996, and administratively modified on May 1, 1996.