



Environmental Protection Agency

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

10/17/2011

Certified Mail

Ms. Joanne Reinhold
General Electric Aviation, Evendale Plant
One Neumann Way
Mail Drop N123
Cincinnati, OH 45215

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

RE: DRAFT AIR POLLUTION PERMIT-TO-INSTALL
Facility ID: 1431150060
Permit Number: P0108714
Permit Type: Administrative Modification
County: Hamilton

Dear Permit Holder:

A draft of the Ohio Administrative Code (OAC) Chapter 3745-31 Air Pollution Permit-to-Install for the referenced facility has been issued for the emissions unit(s) listed in the Authorization section of the enclosed draft permit. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the permit. A public notice will appear in the Ohio EPA Weekly Review and the local newspaper, The Cincinnati Enquirer. A copy of the public notice and the draft permit are enclosed. This permit can be accessed electronically on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Issued Air Pollution Control Permits" link. Comments will be accepted as a marked-up copy of the draft permit or in narrative format. Any comments must be sent to the following:

Andrew Hall
Permit Review/Development Section
Ohio EPA, DAPC
50 West Town Street, Suite 700
P.O. Box 1049
Columbus, Ohio 43216-1049

and Hamilton County Dept. of Environmental Services
250 William Howard Taft Pkwy.
Cincinnati, OH 45219-2660

Comments and/or a request for a public hearing will be accepted within 30 days of the date the notice is published in the newspaper. You will be notified in writing if a public hearing is scheduled. A decision on issuing a final permit-to-install will be made after consideration of comments received and oral testimony if a public hearing is conducted. Any permit fee that will be due upon issuance of a final Permit-to-Install is indicated in the Authorization section. Please do not submit any payment now. If you have any questions, please contact Hamilton County Dept. of Environmental Services at (513)946-7777.

Sincerely,

Michael W. Ahern, Manager

Permit Issuance and Data Management Section, DAPC

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

PUBLIC NOTICE
10/17/2011 Issuance of Draft Air Pollution Permit-To-Install

General Electric Aviation, Evendale Plant
One Neumann Way,
Cincinnati, OH 45215
Hamilton County

FACILITY DESC.: Aircraft Engine and Engine Parts Manufacturing

PERMIT #: P0108714

PERMIT TYPE: Administrative Modification

PERMIT DESC: Agency-initiated Administrative Modification to PTI #14-05563 issued 7/22/2004 for emissions units Z079 and Z080 to change EU ID's to P-source codes and correction of applicable OAC rules for PE.

The Director of the Ohio Environmental Protection Agency issued the draft permit above. The permit and complete instructions for requesting information or submitting comments may be obtained at: epa.ohio.gov/dapc/permit by entering the permit # or: Mike Kramer, Hamilton County Dept. of Environmental Services, 250 William Howard Taft Pkwy., Cincinnati, OH 45219-2660. Ph: (513)946-7777



DRAFT

Division of Air Pollution Control
Permit-to-Install
for
General Electric Aviation, Evendale Plant

Facility ID:	1431150060
Permit Number:	P0108714
Permit Type:	Administrative Modification
Issued:	10/17/2011
Effective:	To be entered upon final issuance



Division of Air Pollution Control
Permit-to-Install
for
General Electric Aviation, Evendale Plant

Table of Contents

Authorization 1
A. Standard Terms and Conditions 3
1. Federally Enforceable Standard Terms and Conditions 4
2. Severability Clause 4
3. General Requirements 4
4. Monitoring and Related Record Keeping and Reporting Requirements 5
5. Scheduled Maintenance/Malfunction Reporting 6
6. Compliance Requirements 6
7. Best Available Technology 7
8. Air Pollution Nuisance 7
9. Reporting Requirements 7
10. Applicability 8
11. Construction of New Sources(s) and Authorization to Install 8
12. Permit-To-Operate Application 9
13. Construction Compliance Certification 9
14. Public Disclosure 9
15. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations 9
16. Fees 10
17. Permit Transfers 10
18. Risk Management Plans 10
19. Title IV Provisions 10
B. Facility-Wide Terms and Conditions 11
C. Emissions Unit Terms and Conditions 13
1. P283, EA-433 14
2. P284, EA-434 18



Authorization

Facility ID: 1431150060
Facility Description: Manufactures turbine engines and parts
Application Number(s): M0001357
Permit Number: P0108714
Permit Description: Agency-initiated Administrative Modification to PTI #14-05563 issued 7/22/2004 for emissions units Z079 and Z080 to change EU ID's to P-source codes and correction of applicable OAC rules for PE.
Permit Type: Administrative Modification
Permit Fee: \$0.00 *DO NOT send payment at this time, subject to change before final issuance*
Issue Date: 10/17/2011
Effective Date: To be entered upon final issuance

This document constitutes issuance to:

General Electric Aviation, Evendale Plant
One Neumann Way
Cincinnati, OH 45215

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

Ohio EPA District Office or local air agency responsible for processing and administering your permit:

Hamilton County Dept. of Environmental Services
250 William Howard Taft Pkwy.
Cincinnati, OH 45219-2660
(513)946-7777

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: P0108714
Permit Description: Agency-initiated Administrative Modification to PTI #14-05563 issued 7/22/2004 for emissions units Z079 and Z080 to change EU ID's to P-source codes and correction of applicable OAC rules for PE.

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

- | | |
|-----------------------------------|----------------|
| Emissions Unit ID: | P283 |
| Company Equipment ID: | EA-433 |
| Superseded Permit Number: | 14-05563 |
| General Permit Category and Type: | Not Applicable |
| Emissions Unit ID: | P284 |
| Company Equipment ID: | EA-434 |
| Superseded Permit Number: | 14-05563 |
| General Permit Category and Type: | Not Applicable |



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 Hamilton County Dept. of Environmental Services.
 - (2) Quarterly written reports of (i) any deviations from federally enforceable emission limitations, and (ii) 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 Hamilton County Dept. of Environmental Services. 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 Hamilton County Dept. of Environmental Services 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 Hamilton County Dept. of Environmental Services 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 Hamilton County Dept. of Environmental Services 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 Hamilton County Dept. of Environmental Services.
- 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 Hamilton County Dept. of

Environmental Services. 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.

B. Facility-Wide Terms and Conditions

1. All the following facility-wide terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:
 - a) None.
2. The following emissions units contained in this permit are subject to 40 CFR Part 63, Subpart P, National Emission Standards for Hazardous Air Pollutants from Engine Test Cells/Standards: P283 and P284. The complete MACT requirements including the MACT General Provisions may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website <http://ecfr.gpoaccess.gov> or by contacting the appropriate Ohio EPA District office or local air agency.

C. Emissions Unit Terms and Conditions



1. P283, EA-433

Operations, Property and/or Equipment Description:

15.5 mmBtu/hour natural gas direct-fired Turbine Rear-Frame Cooler (EA-433), formerly EU Z079

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) Best Available Technology (BAT)	Carbon monoxide (CO) emissions shall not exceed 0.57pound per mmBtu*. Nitrogen oxides (NOx) emissions shall not exceed 0.06 pound per mmBtu*. Volatile organic compound (VOC) emissions shall not exceed 0.03 pound per mmBtu*. Particulate emissions (PE) and particulate matter 10 microns and less in diameter (PM ₁₀) shall not exceed 0.0076 pound per mmBtu*. [PE is assumed to be equivalent to PM ₁₀] Sulfur dioxide (SO ₂) emissions shall not exceed 0.0006 pound per mmBtu*. *The emission limitations outlined above are based upon the emissions unit's potential to emit. Therefore, no record keeping is required to demonstrate compliance with these limitations. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D).



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
b.	OAC rule 3745-31-05(D) Permittee-Requested Federally Enforceable Limitation on the Potential to Emit	CO emissions shall not exceed 5.0 tons per year (TPY) as a rolling 12-month summation. NOx emissions shall not exceed 0.51 TPY as a rolling 12-month summation. VOC emissions shall not exceed 0.27 TPY as a rolling 12-month summation. PE and PM ₁₀ emissions shall not exceed 0.07 TPY as a rolling 12-month summation. [PE is assumed to be equivalent to PM ₁₀] SO ₂ emissions shall not exceed 0.01 TPY as a rolling 12-month summation. See c)(1).
c.	OAC rule 3745-17-07(A)(1)	See b)(2)c.
d.	OAC rule 3745-17-11(B)	See b)(2)b.
e.	40 CFR Part 63, Subpart P [40 CFR 63.9280 – 63.9375] National Emission Standards for Hazardous Air Pollutants (NESHAP): Engine Test Cells/Standards [In accordance with 40 CFR 63.9290, this emissions unit is an existing affected source.]	See b)(2)d.

(2) Additional Terms and Conditions

- a. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the emission limitations listed in b)(1) above and the design capability of the emissions unit to combust only natural gas.
- b. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table 1 of OAC rule 3745-17-11 does not apply because the process weight rate, as defined in OAC rule 3745-17-01(B)(17), is equal to zero.
- c. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h)



because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

- d. In accordance with 40 CFR Part 63.9290(a)(1), this emissions unit is defined as an existing affected source. Therefore, pursuant to 40 CFR 63.9290(b), as an existing affected source, it is specifically exempt from the requirements of 40 CFR Part 63, Subpart P and Subpart A.

c) Operational Restrictions

- (1) The maximum annual operating hours for this emissions unit shall not exceed 1,125 hours, based upon a rolling, 12-month summation of the operating hours.

This emissions unit has been in operation for more than 12 months and, as such, the permittee has existing records to generate the rolling, 12-month summation of the hours of operation, upon issuance of this permit.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the following information:

- a. the total operating hours for this emissions unit; and
- b. the rolling, 12-month summation of the operating hours for this emissions unit.

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 quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month restriction on the hours of operation for this emissions unit.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

f) Testing Requirements

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

- a. Emission Limitations:

CO emissions shall not exceed 5.0 tons per year (TPY) as a rolling 12-month summation.

NOx emissions shall not exceed 0.51 TPY as a rolling 12-month summation.

VOC emissions shall not exceed 0.27 TPY as a rolling 12-month summation.



PE and PM₁₀ emissions shall not exceed 0.07 TPY as a rolling 12-month summation. [PE is assumed to be equivalent to PM₁₀]

SO₂ emissions shall not exceed 0.01 TPY as a rolling 12-month summation.

Applicable Compliance Method:

The above TPY emission limitations are based upon the emissions unit's hourly potential to emit multiplied by the hours of operation restriction in c)(1). Compliance with the hours of operation restriction ensures compliance with the TPY emission limitations.

b. Emission Limitations:

CO emissions shall not exceed 0.57 pound per mmBtu.

NO_x emissions shall not exceed 0.06 pound per mmBtu.

VOC emissions shall not exceed 0.03 pound per mmBtu.

PE and PM₁₀ shall not exceed 0.0076 pound per mmBtu.

SO₂ emissions shall not exceed 0.0006 pound per mmBtu.

Applicable Compliance Method:

The CO, NO_x, and VOC pound per mmBtu emission limitations above are based upon the emissions unit's potential to emit. The CO, NO_x, and VOC pound per mmBtu emission limitations represent the emission factors from equipment test data as provided by the permittee in the application for the permit to install, submitted April 15, 2004. If required, the permittee shall demonstrate compliance with these emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4, Method 7 (NO_x), Method 10 (CO), and Method 25 (VOC). Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

The PE/PM₁₀ and SO₂ pound per mmBtu emission limitations above are based upon the emissions unit's potential to emit. The PE/PM₁₀ and SO₂ emission limitations were calculated based upon the emission factors for natural gas combustion found in AP-42 Section 1.4, Table 1.4-2, dated 7/1998, and the permittee-provided heat content of the natural gas at 1,000 Btu/scf. PE was conservatively assumed to be equivalent to PM₁₀. If required, the permittee shall demonstrate compliance with these emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4, Method 6 (SO₂), and Method 5 (PE). Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

g) Miscellaneous Requirements

(1) None.



2. P284, EA-434

Operations, Property and/or Equipment Description:

27.5 MMBtu/hr natural gas direct-fired Inflow Bleed Preheater (EA-434), formerly EU Z080

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.

Table with 2 columns: Applicable Rules/Requirements and Applicable Emissions Limitations/Control Measures. Row 'a.' lists OAC rule 3745-31-05(A)(3) and Best Available Technology (BAT) with corresponding emission limits for CO, NOx, VOC, PM, and SO2.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
b.	OAC rule 3745-31-05(D) Permittee-Requested Federally Enforceable Limitation on the Potential to Emit	CO emissions shall not exceed 5.0 tons per year (TPY) as a rolling 12-month summation. NOx emissions shall not exceed 0.46 TPY as a rolling 12-month summation. VOC emissions shall not exceed 0.32 TPY as a rolling 12-month summation. PE and PM ₁₀ emissions shall not exceed 0.10 TPY as a rolling 12-month summation. [PE is assumed to be equivalent to PM ₁₀] SO ₂ emissions shall not exceed 0.01 TPY as a rolling 12-month summation. See c)(1).
c.	OAC rule 3745-17-07(A)(1)	See b)(2)c.
d.	OAC rule 3745-17-11(B)	See b)(2)b.
e.	40 CFR Part 63, Subpart P [40 CFR 63.9280 – 63.9375] National Emission Standards for Hazardous Air Pollutants (NESHAP): Engine Test Cells/Stands [In accordance with 40 CFR 63.9290, this emissions unit is an existing affected source.]	See b)(2)d.

(2) Additional Terms and Conditions

- a. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the emission limitations listed in b)(1) above and the design capability of the emissions unit to combust only natural gas.
- b. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table 1 of OAC rule 3745-17-11 does not apply because the process weight rate, as defined in OAC rule 3745-17-01(B)(17), is equal to zero.
- c. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h)



because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

- d. In accordance with 40 CFR Part 63.9290(a)(1), this emissions unit is defined as an existing affected source. Therefore, pursuant to 40 CFR 63.9290(b), as an existing affected source, it is specifically exempt from the requirements of 40 CFR Part 63, Subpart P and Subpart A.

c) Operational Restrictions

- (1) The maximum annual operating hours for this emissions unit shall not exceed 950 hours, based upon a rolling, 12-month summation of the operating hours.

This emissions unit has been in operation for more than 12 months and, as such, the permittee has existing records to generate the rolling, 12-month summation of the hours of operation, upon issuance of this permit.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the following information:
 - a. the total operating hours for this emissions unit; and
 - b. the rolling, 12-month summation of the operating hours for this emissions unit.

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 quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month restriction on the hours of operation for this emissions unit.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in b) of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitations:
 - CO emissions shall not exceed 5.0 tons per year (TPY) as a rolling 12-month summation.
 - NOx emissions shall not exceed 0.46 TPY as a rolling 12-month summation.
 - VOC emissions shall not exceed 0.32 TPY as a rolling 12-month summation.



PE and PM₁₀ emissions shall not exceed 0.10 TPY as a rolling 12-month summation. [PE is assumed to be equivalent to PM₁₀]

SO₂ emissions shall not exceed 0.01 TPY as a rolling 12-month summation.

Applicable Compliance Method:

The above TPY emission limitations are based upon the emissions unit's hourly potential to emit multiplied by the hours of operation restriction in c)(1). Compliance with the hours of operation restriction ensures compliance with the TPY emission limitations.

b. Emission Limitations:

CO emissions shall not exceed 0.38 pound per mmBtu.

NO_x emissions shall not exceed 0.04 pound per mmBtu.

VOC emissions shall not exceed 0.02 pound per mmBtu.

PE and PM₁₀ shall not exceed 0.0076 pound per mmBtu.

SO₂ emissions shall not exceed 0.0006 pound per mmBtu.

Applicable Compliance Method:

The CO, NO_x, and VOC pound per mmBtu emission limitations above are based upon the emissions unit's potential to emit. The CO, NO_x, and VOC pound per mmBtu emission limitations represent the emission factors from equipment test data as provided by the permittee in the application for the permit to install, submitted April 15, 2004. If required, the permittee shall demonstrate compliance with these emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4, Method 7 (NO_x), Method 10 (CO), and Method 25 (VOC). Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

The PE/PM₁₀ and SO₂ pound per mmBtu emission limitations above are based upon the emissions unit's potential to emit. The PE/PM₁₀ and SO₂ emission limitations were calculated based upon the emission factors for natural gas combustion found in AP-42 Section 1.4, Table 1.4-2, dated 7/1998, and the permittee-provided heat content of the natural gas at 1,000 Btu/scf. PE was conservatively assumed to be equivalent to PM₁₀. If required, the permittee shall demonstrate compliance with these emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4, Method 6 (SO₂), and Method 5 (PE). Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

g) Miscellaneous Requirements

- (1) None.