



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

5/26/2015

Certified Mail

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

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL  
 Facility ID: 1431150060  
 Permit Number: P0118747  
 Permit Type: Initial Installation  
 County: Hamilton

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**

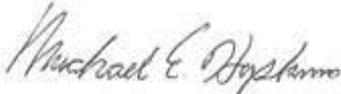
Please complete a survey at [www.epa.ohio.gov/survey.aspx](http://www.epa.ohio.gov/survey.aspx) and give us feedback on your permitting experience. We value your opinion.

## **How to get an electronic copy of your permit**

This permit can be accessed electronically via the eBusiness Center: Air Services in Microsoft Word format or in Adobe PDF on the Division of Air Pollution Control (DAPC) Web page, [www.epa.ohio.gov/dapc](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 Southwest Ohio Air Quality Agency at (513)946-7777 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,



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

Cc: U.S. EPA  
SWOAQA; Indiana; Kentucky



**FINAL**

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

Facility ID:	1431150060
Permit Number:	P0118747
Permit Type:	Initial Installation
Issued:	5/26/2015
Effective:	5/26/2015





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

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**Final Permit-to-Install**  
General Electric Aviation, Evendale Plant  
**Permit Number:** P0118747  
**Facility ID:** 1431150060  
**Effective Date:** 5/26/2015

## Authorization

Facility ID: 1431150060  
Facility Description: Manufactures turbine engines and parts  
Application Number(s): A0052744  
Permit Number: P0118747  
Permit Description: Initial PTI for two (2) development test cell direct-fired natural gas preheaters and one (1) direct-fired jet fuel, with sand and salt injection, coatings performance process.  
Permit Type: Initial Installation  
Permit Fee: \$1,000.00  
Issue Date: 5/26/2015  
Effective Date: 5/26/2015

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

Southwest Ohio Air Quality Agency  
250 William Howard Taft Rd.  
Cincinnati, OH 45219  
(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

  
Craig W. Butler  
Director



## Authorization (continued)

Permit Number: P0118747

Permit Description: Initial PTI for two (2) development test cell direct-fired natural gas preheaters and one (1) direct-fired jet fuel, with sand and salt injection, coatings performance process.

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>P295</b>
Company Equipment ID:	EA-540 Coatings Performance Process
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable

**Group Name: Test Cell Preheaters P293, P294**

<b>Emissions Unit ID:</b>	<b>P293</b>
Company Equipment ID:	EA-538, Turbine Rear-Frame Cooler, 25.64 MM BTU/hour
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P294</b>
Company Equipment ID:	EA-539, Inflow Bleed Preheater, 26.52 MM BTU/hour
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable



**Final Permit-to-Install**  
General Electric Aviation, Evendale Plant  
**Permit Number:** P0118747  
**Facility ID:** 1431150060  
**Effective Date:**5/26/2015

## **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) 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 Southwest Ohio Air Quality 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 Southwest Ohio Air Quality 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 to the Southwest Ohio Air Quality 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 Southwest Ohio Air Quality 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) All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event of an alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the appropriate Ohio EPA District Office or contracted

local air agency, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the electronic signature date shall constitute the date that the required application, notification or report is considered to be "submitted". Any document requiring signature may be represented by entry of the personal identification number (PIN) by responsible official as part of the electronic submission process or by the scanned attestation document signed by the Authorized Representative that is attached to the electronically submitted written report.

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.

- b) 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.
- c) The permittee shall submit progress reports to the Southwest Ohio Air Quality 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 Southwest Ohio Air Quality 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 Southwest Ohio Air Quality 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 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) not exempt from the requirement to obtain a Permit-to-Install.

**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 permittee 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 "Air Services" along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update electronically will constitute notifying the Director 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.

Unless otherwise exempted, no emissions unit certified by the responsible official as being permanently shut down may resume operation without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31 and OAC Chapter 3745-77 if the restarted operation is subject to one or more applicable requirements.

- 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 operation of the proposed new or modified source(s) as authorized by this permit would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d) must be obtained before operating the source in a manner that would violate the existing Title V permit requirements.

**13. Construction Compliance Certification**

The applicant shall identify the following dates in the "Air Services" 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 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.



**Final Permit-to-Install**  
General Electric Aviation, Evendale Plant  
**Permit Number:** P0118747  
**Facility ID:** 1431150060  
**Effective Date:** 5/26/2015

## **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. Abbreviations used throughout the permit:

MMBtu/hr Million(s) of British thermal units per hour

PTE Potential to Emit

PTI Permit to Install

NOx Nitrogen Oxides

CO Carbon Monoxide

VOC Volatile Organic Compounds

SO<sub>2</sub> Sulfur Dioxide

PE Particulate Emissions

PM<sub>10</sub> Particulate Matter 10 microns and less in diameter

PM<sub>2.5</sub> Particulate Matter 2.5 microns and less in diameter

CO<sub>2e</sub> Carbon Dioxide equivalent

PSD Prevention of Significant Deterioration

BAT Best Available Technology

GE General Electric Aviation, Evendale Plant



**Final Permit-to-Install**  
General Electric Aviation, Evendale Plant  
**Permit Number:** P0118747  
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**Effective Date:**5/26/2015

## **C. Emissions Unit Terms and Conditions**

**1. P295, EA-540 Coatings Performance Process**

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

EA-540 Coatings Performance Process

- 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) b)(1)b.
- 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) June 30, 2008	<p>The following source design characteristics apply to the EU identified in the Operations, Property and/or Equipment Description:</p> <p>Install a burner that is designed to meet 5 pounds of CO per 1000 gallons of liquid fuel input.</p> <p>Install a burner that is designed to meet 20 pounds of NOx per 1000 gallons of liquid fuel input.</p> <p>Install a burner that is designed to meet 0.556 pounds of VOC per 1000 gallons of liquid fuel input.</p> <p>Install a burner that is designed to meet 2 pounds of PE/PM10/PM2.5 per 1000 gallons of liquid fuel input.</p> <p>Liquid fuels used in the burner shall meet 14.2 pounds of SO2 per 1000 gallons of liquid fuel input.</p> <p>Install a system to inject sand and/or salt that is designed to not exceed a sand and/or salt usage rate of 0.2 grams per minute. 100% of the sand and/or salt</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>used is assumed to be emitted as PE/PM10/PM2.5 along with the combustion products.</p> <p>See b)(2)a., d)(1), and d)(2) below.</p>
b.	<p>OAC rule 3745-31-05(A)(3)(a)(ii) June 30, 2008</p>	<p>The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the CO, NOx, VOC, PE/PM10/PM2.5, or SO2 emissions from this air contaminant source since the potential to emit is less than 10 tons/year.</p> <p>See b)(2)b. below.</p>
c.	<p>OAC rule 3745-17-07(A)(1)</p>	<p>Visible emissions generated from the injection of sand and/or salt into this process and from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.</p>
d.	<p>OAC rule 3745-17-11(B) Table I</p>	<p>The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3) for PE.</p> <p>This requirement will apply once U.S. EPA approves OAC paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) as part of the Ohio SIP.</p> <p>See b)(2)b.</p>

(2) Additional Terms and Conditions

- a. These Best Available Technology (BAT) emission limits apply until U.S. EPA approves Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) into the Ohio State Implementation Plan (SIP).
- b. These requirements apply once U.S. EPA approves OAC paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) as part of the Ohio SIP.

The BAT requirements under OAC rule 3745-31-05(A)(3) will not apply to the PE from this air contaminant source once U.S. EPA approves OAC paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) as part of the



Ohio SIP since the calculated annual emission rate for PE is less than 10 TPY taking into account the federally enforceable rule limit of 0.551 pound PE per hour under OAC rule 3745-17-11-(B).

- c. For emissions generated from the injection of sand and/or salt into this process, PE shall not exceed 0.551 pound per hour.
- d. The resultant emissions using the source design characteristics in b)(1)a., and the allowable PE limit from the SIP, are considered to be the PTE for this emissions unit. Therefore, no further recordkeeping or reporting is required to demonstrate compliance.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain the burners according to GE's (or their supplier's, contractor's, etc.) recommendations, instructions, and operating manual(s) in order to ensure they continue to operate as designed. The permittee shall maintain records of routine maintenance on the burners including:
  - a. a description of the maintenance activity;
  - b. the date the maintenance activity was completed; and
  - c. the name(s) of the personnel who performed the work.
- (2) The permittee shall maintain the system to inject sand and/or salt according to GE's (or their supplier's, contractor's, etc.) recommendations, instructions, and operating manual(s) in order to ensure the system continues to operate as designed. The permittee shall maintain records of routine maintenance on the system including:
  - a. a description of the maintenance activity;
  - b. the date the maintenance activity was completed; and
  - c. the name(s) of the personnel who performed the work.
- (3) For each day during which the permittee burns a fuel other than jet fuel, the permittee shall maintain a record of the type, percent of sulfur content, and quantity of fuel burned in this emissions unit.
- (4) The permittee shall maintain records of the total quantity of liquid fuel received and the permittee's or fuel supplier's analyses for sulfur content to demonstrate compliance with the liquid fuels SO<sub>2</sub> requirement.

Analysis for sulfur content from a representative sample of each liquid fuel storage tank, which feeds this emissions unit, shall be performed by the permittee on a frequency of once per calendar month for each liquid fuel combusted in this emissions unit. Analysis

shall be performed in accordance with the appropriate ASTM methods, such as D4294, Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry, or equivalent methods including D396-07.

Alternatively, the permittee shall maintain records of fuel supplier-provided analysis or certifications for each fuel shipment.

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 the following:
  - a. any time during the reporting period that the burners were not maintained according to the recommendations, instructions, and operating manual(s); and
  - b. any time during the reporting period that the system to inject sand and/or salt was not maintained according to the recommendations, instructions, and operating manual(s).

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 section b) of these terms and conditions shall be determined in accordance with the following methods:
  - a. Source Design Characteristics:
    - Install a burner that is designed to meet 5 pounds of CO per 1000 gallons of liquid fuel input.
    - Install a burner that is designed to meet 20 pounds of NO<sub>x</sub> per 1000 gallons of liquid fuel input.
    - Install a burner that is designed to meet 0.556 pounds of VOC per 1000 gallons of liquid fuel input.
    - Install a burner that is designed to meet 2 pounds of PE/PM<sub>10</sub>/PM<sub>2.5</sub> per 1000 gallons of liquid fuel input.
    - Liquid fuels used in the burner shall meet 14.2 pounds of SO<sub>2</sub> per 1000 gallons of liquid fuel input.
    - Install a system to inject sand and/or salt that is designed to not exceed a sand and/or salt usage rate of 0.2 grams per minute. 100% of the sand and/or salt

used is assumed to be emitted as PE/PM10/PM2.5 along with the combustion products.

Applicable Compliance Method:

The permittee is required to maintain the equipment following GE's (or their supplier's, contractor's, etc.) recommendations in order to ensure the source continues to operate as designed.

If required, emission testing shall be conducted to demonstrate compliance with the design characteristic requirements using Test Methods 1 through 4 and Methods 5, 6, 7, 10, and 25 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

g) **Miscellaneous Requirements**

- (1) General Electric Aviation, Evendale Plant is currently a Major Stationary Source for purposes of New Source Review and Title V permitting for emissions of PM/PM10/PM2.5, NO<sub>x</sub>, CO, VOC, SO<sub>2</sub>, and CO<sub>2</sub>e from existing gas/oil-fired boilers, gas-fired preheaters, engine test cells, and engine part coating operations. Unrestricted, uncontrolled PTE CO emissions from the emissions units included in this PTI are not greater than the Significant emission rate for that pollutant. Therefore, this PTI does not include Synthetic Minor requirements to avoid PSD.

**2. Emissions Unit Group -Test Cell Preheaters P293, P294: P293,P294,**

<b>EU ID</b>	<b>Operations, Property and/or Equipment Description</b>
P293	EA-538, 25.64 MM BTU/hour, natural gas direct-fired Turbine Rear Frame Cooler
P294	EA-539, 26.52 MM BTU/hour, natural gas direct-fired Inflow Bleed Preheater

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) b)(1)c.

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.	ORC 3704.03(T)  OAC rule 3745-31-05(A)(3) June 30, 2008	The following source design characteristic applies to each EU identified in the Operations, Property and/or Equipment Description:  Install a burner that is designed to meet 0.57 pound CO per Million Btu (MMBtu) of heat input.  See d)(1) below.
b.	OAC rule 3745-31-05(A)(3) June 30, 2008	The following source design characteristics apply to each EU identified in the Operations, Property and/or Equipment Description:  Install a burner that is designed to meet 0.06 pound NOx per Million Btu (MMBtu) of heat input.  Install a burner that is designed to meet 0.03 pound VOC per Million Btu (MMBtu) of heat input.  Install a burner that is designed to meet 0.0076 pound PE/PM10/PM2.5 per Million Btu (MMBtu) of heat input.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		Gaseous fuels used in the burner shall meet 0.0006 pound SO <sub>2</sub> per Million Btu (MMBtu) of heat input.  See b)(2)a. and d)(1) below.
c.	OAC rule 3745-31-05(A)(3)(a)(ii) June 30, 2008	The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the NO <sub>x</sub> , VOC, PE/PM <sub>10</sub> /PM <sub>2.5</sub> , or SO <sub>2</sub> emissions from this air contaminant source since the potential to emit is less than 10 tons/year.  See b)(2)b. below.

(2) Additional Terms and Conditions

- a. These Best Available Technology (BAT) emission limits apply until U.S. EPA approves Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) into the Ohio State Implementation Plan (SIP).
- b. These requirements apply once U.S. EPA approves OAC paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) as part of the Ohio SIP.
- c. The resultant emissions using the source design characteristics in b)(1)a. are considered to be the PTE for this emissions unit. Therefore, no further recordkeeping or reporting is required to demonstrate compliance.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain the burners according to GE's (or their supplier's, contractor's, etc.) recommendations, instructions, and operating manual(s) in order to ensure they continue to operate as designed. The permittee shall maintain records of routine maintenance on the burners including:
  - a. a description of the maintenance activity;
  - b. the date the maintenance activity was completed; and
  - c. the name(s) of the personnel who performed the work.

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 any time during the reporting period that the burners were not maintained according to the recommendations, instructions, and operating manual(s).

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 section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Source Design Characteristics:

Install a burner that is designed to meet 0.57 pound CO per Million Btu (MMBtu) of heat input.

Install a burner that is designed to meet 0.06 pound NO<sub>x</sub> per Million Btu (MMBtu) of heat input.

Install a burner that is designed to meet 0.03 pound VOC per Million Btu (MMBtu) of heat input.

Install a burner that is designed to meet 0.0076 pound PE/PM<sub>10</sub>/PM<sub>2.5</sub> per Million Btu (MMBtu) of heat input.

Gaseous fuels used in the burner shall meet 0.0006 pound SO<sub>2</sub> per Million Btu (MMBtu) of heat input.

Applicable Compliance Method:

The permittee is required to maintain the equipment following GE's (or their supplier's, contractor's, etc.) recommendations in order to ensure the source continues to operate as designed.

If required, emission testing shall be conducted to demonstrate compliance with the design characteristic requirements using Test Methods 1 through 4 and Methods 5, 6, 7, 10, and 25 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

g) Miscellaneous Requirements

- (1) General Electric Aviation, Evendale Plant is currently a Major Stationary Source for purposes of New Source Review and Title V permitting for emissions of PM/PM10/PM2.5, NO<sub>x</sub>, CO, VOC, SO<sub>2</sub>, and CO<sub>2</sub>e from existing gas/oil-fired boilers, gas-fired preheaters, engine test cells, and engine part coating operations. Unrestricted, uncontrolled PTE CO emissions from the emissions units included in this PTI are not greater than the Significant emission rate for that pollutant. Therefore, this PTI does not include Synthetic Minor requirements to avoid PSD.
- (2) Since the PTE CO emissions > 10 TPY, Monitoring and/or Recordkeeping Requirements in d)(1) shall apply for the life of the units.