



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Eric J. Holcomb
Governor

Bruno L. Pigott
Commissioner

NOTICE OF 30-DAY PERIOD FOR PUBLIC COMMENT

Preliminary Findings Regarding a
Minor Modification to a
Part 70 Operating Permit

for Federal Express Corporation in Marion County

Minor Permit Modification No.: 097-43308-00257

The Indiana Department of Environmental Management (IDEM) has received an application from Federal Express Corporation, located at 6648, Perimeter Road, Indianapolis, IN 46241, for a minor modification of its Part 70 Operating Permit Renewal issued on May 27, 2020. If approved by IDEM's Office of Air Quality (OAQ), this proposed modification would allow Federal Express Corporation to make certain changes at its existing source. Federal Express Corporation has applied to construct two (2) Superior boilers, model year 2020, and incorporate two (2) existing natural gas-fired space heaters to the permit.

The applicant intends to construct and operate new equipment that will emit air pollutants; therefore, the permit contains new or different permit conditions. In addition, some conditions from previously issued permits/approvals have been corrected, changed, or removed. These corrections, changes, and removals may include Title I changes (e.g., changes that add or modify synthetic minor emission limits). IDEM has reviewed this application and has developed preliminary findings, consisting of a draft permit and several supporting documents, which would allow the applicant to make this change.

A copy of the permit application and IDEM's preliminary findings have been sent to:

Indianapolis Public Library - Decatur Branch
5301 Kentucky Avenue
Indianapolis, IN, 46221

A copy of the preliminary findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>.

A copy of the application and preliminary findings is also available via IDEM's Virtual File Cabinet (VFC). To access VFC, please go to: <http://www.in.gov/idem/> and enter VFC in the search box. You will then have the option to search for permit documents using a variety of criteria.

How can you participate in this process?

The date that this notice is posted on IDEM's website (<https://www.in.gov/idem/5474.htm>) marks the beginning of a 30-day public comment period. If the 30th day of the comment period falls on a day when IDEM offices are closed for business, all comments must be postmarked or delivered in person on the next business day that IDEM is open.

You may request that IDEM hold a public hearing about this draft permit. If adverse comments concerning the **air pollution impact** of this draft permit are received, with a request for a public hearing, IDEM will decide whether or not to hold a public hearing. IDEM could also decide to hold a public meeting instead of, or in addition to, a public hearing. If a public hearing or meeting is held, IDEM will make a separate announcement of the date, time, and location of that hearing or meeting. At a hearing, you would have an opportunity to submit written comments and make verbal comments. At a meeting,

you would have an opportunity to submit written comments, ask questions, and discuss any air pollution concerns with IDEM staff.

Comments and supporting documentation, or a request for a public hearing should be sent in writing to IDEM at the address below. If you comment via e-mail, please include your full U.S. mailing address so that you can be added to IDEM's mailing list to receive notice of future action related to this permit. If you do not want to comment at this time, but would like to receive notice of future action related to this permit application, please contact IDEM at the address below. Please refer to permit number MPM 097-43308-00257 in all correspondence.

Comments should be sent to:

Dylan Finley
IDEM, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
(800) 451-6027, ask for Dylan Finley or (317) 232-1139
Or dial directly: (317) 232-1139
Fax: (317) 232-6749 attn: Dylan Finley
E-mail: DFinley@idem.IN.gov

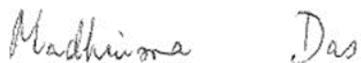
All comments will be considered by IDEM when we make a decision to issue or deny the permit. Comments that are most likely to affect final permit decisions are those based on the rules and laws governing this permitting process (326 IAC 2), air quality issues, and technical issues. IDEM does not have legal authority to regulate zoning, odor, or noise. For such issues, please contact your local officials.

For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Air Permits page on the Internet at: <http://www.in.gov/idem/airquality/2356.htm>; and the Citizens' Guide to IDEM on the Internet at: <http://www.in.gov/idem/6900.htm>.

What will happen after IDEM makes a decision?

Following the end of the public comment period, IDEM will issue a Notice of Decision stating whether the permit has been issued or denied. If the permit is issued, it may be different than the draft permit because of comments that were received during the public comment period. If comments are received during the public notice period, the final decision will include a document that summarizes the comments and IDEM's response to those comments. If you have submitted comments or have asked to be added to the mailing list, you will receive a Notice of the Decision. The notice will provide details on how you may appeal IDEM's decision, if you disagree with that decision. The final decision will also be available on the Internet at the address indicated above and will also be sent to the local library indicated above, and the IDEM public file room on the 12th floor of the Indiana Government Center North, 100 N. Senate Avenue, Indianapolis, Indiana 46204-2251.

If you have any questions, please contact Dylan Finley of my staff at the above address.



Madhurima D. Moulik, Ph.D., Section Chief
Permits Branch
Office of Air Quality



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Dustin Rice
Federal Express Corporation
10585 Heater Court
San Diego, CA 92121

Re: 097-43308-00257
Minor Permit Modification

Dear Dustin Rice:

Federal Express Corporation was issued Part 70 Operating Permit Renewal No. T097-41903-00257 on May 27, 2020 for a stationary air courier service located at 6648 Perimeter Road, Indianapolis, IN, 46241. An application requesting changes to this permit was received on August 28, 2020. Pursuant to the provisions of 326 IAC 2-7-12, a Minor Permit Modification to this permit is hereby approved as described in the attached Technical Support Document.

Please find attached the entire Part 70 Operating Permit as modified. The permit references the below listed attachment(s). Since these attachments have been provided in previously issued approvals for this source, IDEM OAQ has not included a copy of these attachments with this modification:

- Attachment A: 40 CFR 60, Subpart Dc, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units
- Attachment B: 40 CFR 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
- Attachment C: 40 CFR 63, Subpart ZZZZ, National Emission Standard for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
- Attachment D: 40 CFR 63, Subpart CCCCC, National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities

Previously issued approvals for this source containing these attachments are available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>.

Previously issued approvals for this source are also available via IDEM's Virtual File Cabinet (VFC). To access VFC, please go to: <http://www.in.gov/idem/> and enter VFC in the search box. You will then have the option to search for permit documents using a variety of criteria.

Federal rules under Title 40 of United States Code of Federal Regulations may also be found on the U.S. Government Printing Office's Electronic Code of Federal Regulations (eCFR) website, located on the Internet at: http://www.ecfr.gov/cgi-bin/text-idx?tpl=/ecfrbrowse/Title40/40tab_02.tpl.

A copy of the permit is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>. A copy of the application and permit is also available via IDEM's Virtual File Cabinet (VFC). To access VFC, please go to: <http://www.in.gov/idem/> and enter VFC in the search box. You will then have the option to search for permit documents using a variety of criteria. For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Air Permits page on the Internet at: <http://www.in.gov/idem/airquality/2356.htm>; and the Citizens' Guide to IDEM on the Internet at: <http://www.in.gov/idem/6900.htm>.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5.

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If you have any questions regarding this matter, please contact Dylan Finley, Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251, or by telephone at (317) 232-1139 or (800) 451-6027, and ask for Dylan Finley or (317) 232-1139.

Sincerely,

Madhurima D. Moulik, Ph.D., Section Chief
Permits Branch
Office of Air Quality

Attachments: Modified Permit and Technical Support Document

cc: File - Marion County
Marion County Health Department
U.S. EPA, Region 5
Compliance and Enforcement Branch



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Commissioner

Part 70 Operating Permit (Renewal) OFFICE OF AIR QUALITY Federal Express Corporation 6648 Perimeter Road, Indianapolis, IN, 46241 Indianapolis, IN, 46241

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. Noncompliance with any provision of this permit, except any provision specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act. 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 conditions of this permit. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T097-41903-00257	
Master Agency Interest ID.: 24033	
Issued by: Original signed by: Jenny Acker, Branch Chief for: Madhurima D. Moulik, Ph.D., Section Chief Permits Branch Office of Air Quality	Issuance Date: May 27, 2020 Expiration Date: May 27, 2025

First Administrative Amendment No. 097-42959-00257, issued on June 24, 2020

Minor Permit Modification No.: 097-43308-00257	
Issued by: Madhurima D. Moulik, Ph. D., Section Chief Permits Branch Office of Air Quality	Issuance Date: Expiration Date: May 27, 2025

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- Attachment B: 40 CFR 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
- Attachment C: 40 CFR 63, Subpart ZZZZ, National Emission Standard for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
- Attachment D: 40 CFR 63, Subpart CCCCCC, National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities

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SECTION A

SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-7-4(c)][326 IAC 2-7-5(14)][326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary air courier service.

Source Address:	6648 Perimeter Road, Indianapolis, Indiana 46241
General Source Phone Number:	901-434-8464
SIC Code:	4513 (Air Courier Services)
County Location:	Marion Outside Center, Perry, and Wayne Townships
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Operating Permit Program Minor Source, under PSD Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)][326 IAC 2-7-5(14)]

This stationary source consists of the following emission units and pollution control devices:

(a) Nine (9) generators, consisting of the following:

- (1) Eight (8) large diesel/jet fuel-fired generators, Hub, constructed in 1997, with a maximum capacity of 20,744 hp (2593 hp each), identified as EU01, using catalytic oxidizers CE01A - CE01H for CO control, and exhausting to the atmosphere through stack/vents ST01A - ST01H; and

These generators are existing affected units under the provisions of 40 CFR 63, Subpart ZZZZ.

- (2) One (1) diesel/jet fuel-fired generator, constructed in 2008, with a maximum capacity of 2450 kW (3285 hp), identified as EU11, exhausting to the atmosphere through stack vent ST11.

The generator is an affected unit under the provisions of 40 CFR 60, Subpart IIII and a new affected unit under the provisions of 40 CFR 63, Subpart ZZZZ.

- (b) Two (2) natural gas fired Superior boilers, model year 2020, identified as EU06A, approved in 2020 for construction, with a maximum heat input capacity of 21.0 MMBTU/hr (each), and exhausting to the atmosphere through stack/vent ST05;

The boilers are affected units under the provisions of 40 CFR 60, Subpart Dc.

- (c) One (1) fuel dispensing and storage operation consisting of the following:

- (1) Two (2) fixed roof cone tanks used for jet A fuel storage, constructed in 1986, identified as EU08, each with a maximum capacity of 476,000 gallons, exhausting to the atmosphere through stack/vent ST08;

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- (2) One (1) internal floating roof tank used for jet A fuel storage, constructed in 2008, identified as EU12, with a maximum capacity of 750,000 gallons, exhausting to the atmosphere through stack/vent ST12;
- (3) One (1) Jet A fuel loading rack, identified as EU13, constructed in 1986, with a maximum daily throughput of 350,000 gallons, dispensing fuel into bowsers for airplane refueling, using no controls, and exhausting directly to the atmosphere;
- (4) One (1) Jet A fuel loading rack, identified as EU14, approved for construction in 2017, with a maximum daily throughput of 350,000 gallons, dispensing fuel into bowsers for airplane refueling, using no controls, and exhausting directly to the atmosphere;
- (5) One (1) gasoline underground storage tank, identified as EU09, constructed in 1986, with a maximum capacity of 10,000 gallons and a maximum daily throughput of 2,893 gallons, and exhausting to the atmosphere through stack/vent ST09;
- (6) One (1) gasoline dispensing facility, identified as EU09D, constructed in 1986, with a maximum daily throughput of 2,893 gallons, dispensing fuel into bowsers for onsite vehicle refueling, using no controls, and exhausting directly to the atmosphere;

The facility is an affected unit under the provisions of 40 CFR 63, Subpart CCCCC.

- (7) One (1) diesel/jet fuel tank, identified as EU10, constructed in 1997, with a maximum capacity of 20,000 gallons and a maximum daily throughput of 4,733 gallons, exhausting to the atmosphere through stack/vent ST10; and
- (8) One (1) diesel fuel dispensing facility, identified as EU10D, constructed in 1997, with a maximum daily throughput of 4,733 gallons, dispensing fuel into bowsers for onsite vehicle refueling, using no controls, and exhausting directly to the atmosphere.

A.3 Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-7-4(c)][326 IAC 2-7-5(14)]

This stationary source also includes the following insignificant activities:

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million Btu per hour:
 - (1) Two (2) Cleaver Brooks natural gas fired boilers, each with a maximum heat input capacity of 3.5 million Btu per hour, constructed in 1996.
 - (2) Three (3) Lochinvar natural gas fired boilers, each with a maximum heat input capacity of 1.5 million Btu per hour, permitted in 2009.
- (b) Fuel oil fired combustion sources with heat input equal to or less than 2.0 million Btu per hour and firing fuel containing less than five tenths percent (0.5%) sulfur by weight:
 - (1) Five (5) Fire Pump Engines, each with a maximum heat input capacity of 0.03 million Btu per hour, constructed in 1991; and

The engines are existing affected units under the provisions of 40 CFR 63, Subpart ZZZZ.

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- (c) One (1) sanding booth, identified as SB-1, located in the composite shop, with a process weight rate of less than one hundred (100) pounds per hour, equipped with a baghouse dust collection unit, constructed in 2008;
- (d) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6, identified as small shop parts degreasers with internal lids;
- (e) Two (2) Binks Paint Booths, utilizing canned spray paints, constructed in 2009, using not more than 20 gallons per year;
- (f) One (1) Global Finishing paint booth, identified as GF booth, utilizing low pressure air atomization paint guns, located in the composite shop, with a maximum capacity of less than 5 gallons of coating per day, controlled by dry filters, exhausting to the atmosphere at Stack/Vent ID GF-1, constructed in 2008;
- (g) Thirty-one (31) natural gas space heaters, with a total maximum heat input capacity of 12.2 MMBtu/hr;
- (h) The following VOC and HAP storage containers:
 - (1) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons; and
 - (2) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.
- (i) Paved roads and parking lots with public access;
- (j) Two (2) 10,000 gallon underground diesel tanks;
- (k) Emergency generator and fire pump fuel oil tanks;
- (l) Propylene glycol storage and handling;
- (m) Hand wipe degreasing (with degreasing substances) operations;
- (n) Two (2) aerosol can puncturing machines, used to puncture and drain empty aerosol spray cans in vehicle maintenance buildings, constructed in 2002;
- (o) Two (2) Hangar building storage tanks with combined total storage capacity of 3,000 gallons, used to store used oil that is to be recycled off site, constructed in 2002;
- (p) Six (6) emergency generators, consisting of the following:
 - (1) Two (2) emergency diesel/jet fuel-fired generators, each with a maximum capacity of 896 hp, identified as EU02 - Matrix Building generator constructed in 1996, and EU03 - Truck Unloading Area generator, constructed in 1997, exhausting to the atmosphere through stack/vent ST02 and ST03, and each operated less than 500 hours per year;

These generators are existing affected units under the provisions of 40 CFR 63, Subpart ZZZZ.
 - (2) One (1) emergency diesel/jet fuel-fired generator, constructed in 1997, with a maximum capacity of 749 hp, identified as EU04 - GSE Building generator, exhausting to the atmosphere through stack/vent ST04, and operated less than

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500 hours per year;

This generator is an existing affected unit under the provisions of 40 CFR 63, Subpart ZZZZ.

- (3) One (1) emergency diesel generator, identified as EU05 - West Hangar generator, manufactured in 1996, installed by previous owner in 1997 and approved for installation at this site in 2017, with a maximum capacity of 851 HP, using no controls, and exhausting to the atmosphere through stack/vent ST05;

This generator is an existing affected unit under the provisions of 40 CFR 63, Subpart ZZZZ.

- (4) One (1) support services building emergency diesel- fired generators, identified as EU15, constructed in 2008, with a maximum capacity of 275 Hp, using no control, exhausting to the atmosphere through stack ST15; and

The generator is an affected unit under the provisions of 40 CFR 60, Subpart IIII and a new affected unit under the provisions of 40 CFR 63, Subpart ZZZZ.

- (5) One (1) East Hangar emergency diesel- fired generators, identified as EU16, installation and construction date unknown, with a maximum capacity of 192 Hp, using no control, exhausting to the atmosphere through stack ST16.

This generator is an existing affected units under the provisions of 40 CFR 63, Subpart ZZZZ.

- (q) Two (2) natural gas-fired space heaters, with a maximum heat input capacity of 4.718 MMBTU/hr, each, located at the East Hangar.

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

- (a) It is a major source, as defined in 326 IAC 2-7-1(22);
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

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SECTION B

GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-7-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-7) shall prevail.

B.2 Permit Term [326 IAC 2-7-5(2)][326 IAC 2-1.1-9.5][326 IAC 2-7-4(a)(1)(D)][IC 13-15-3-6(a)]

- (a) This permit, T097-41903-00257, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

B.3 Term of Conditions [326 IAC 2-1.1-9.5]

Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

- (a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or
- (b) the emission unit to which the condition pertains permanently ceases operation.

B.4 Enforceability [326 IAC 2-7-7][IC 13-17-12]

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

B.5 Severability [326 IAC 2-7-5(5)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.6 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

This permit does not convey any property rights of any sort or any exclusive privilege.

B.7 Duty to Provide Information [326 IAC 2-7-5(6)(E)]

- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

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B.8 Certification [326 IAC 2-7-4(f)][326 IAC 2-7-6(1)][326 IAC 2-7-5(3)(C)]

- (a) A certification required by this permit meets the requirements of 326 IAC 2-7-6(1) if:
- (1) it contains a certification by a "responsible official" as defined by 326 IAC 2-7-1(35), and
 - (2) the certification states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) The Permittee may use the attached Certification Form, or its equivalent with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) A "responsible official" is defined at 326 IAC 2-7-1(35).

B.9 Annual Compliance Certification [326 IAC 2-7-6(5)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than April 15 of each year to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

United States Environmental Protection Agency, Region 5
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
- (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was continuous or intermittent;
 - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and
 - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

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The submittal by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(12)][326 IAC 1-6-3]

- (a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

The Permittee shall implement the PMPs.

- (b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

The Permittee shall implement the PMPs.

- (c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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- (d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.11 Emergency Provisions [326 IAC 2-7-16]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.

- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:

- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
- (2) The permitted facility was at the time being properly operated;
- (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or
Telephone Number: 317-233-0178 (ask for Office of Air Quality, Compliance and Enforcement Branch)
Facsimile Number: 317-233-6865

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

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The notification which shall be submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(8) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

B.12 Permit Shield [326 IAC 2-7-15][326 IAC 2-7-20][326 IAC 2-7-12]

- (a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

This permit shield does not extend to applicable requirements which are promulgated after the date of issuance of this permit unless this permit has been modified to reflect such new requirements.

- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
- (c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to

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be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.

- (d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
- (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
 - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
 - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
 - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
- (e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5][326 IAC 2-7-10.5]

- (a) All terms and conditions of permits established prior to T097-41903-00257 and issued pursuant to permitting programs approved into the state implementation plan have been either:
- (1) incorporated as originally stated,
 - (2) revised under 326 IAC 2-7-10.5, or
 - (3) deleted under 326 IAC 2-7-10.5.
- (b) Provided that all terms and conditions are accurately reflected in this permit, all previous registrations and permits are superseded by this Part 70 operating permit.

B.14 Termination of Right to Operate [326 IAC 2-7-10][326 IAC 2-7-4(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
 - (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]
- (c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.16 Permit Renewal [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(42). The renewal application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

- (b) A timely renewal application is one that is:
 - (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-7-4(a)(2)(D), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

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B.17 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12]

(a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.18 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)][326 IAC 2-7-12(b)(2)]

(a) No Part 70 permit revision or notice shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.

(b) Notwithstanding 326 IAC 2-7-12(b)(1) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

B.19 Operational Flexibility [326 IAC 2-7-20][326 IAC 2-7-10.5]

(a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b) or (c) without a prior permit revision, if each of the following conditions is met:

(1) The changes are not modifications under any provision of Title I of the Clean Air Act;

(2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;

(3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

(4) The Permittee notifies the:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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and

United States Environmental Protection Agency, Region 5
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

- (5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-7-20(b)(1) and (c)(1). The Permittee shall make such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ in the notices specified in 326 IAC 2-7-20(b)(1) and (c)(1).

- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(37)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:

- (1) A brief description of the change within the source;
- (2) The date on which the change will occur;
- (3) Any change in emissions; and
- (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).
- (d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ or U.S. EPA is required.
- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.20 Source Modification Requirement [326 IAC 2-7-10.5]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2.

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B.21 Inspection and Entry [326 IAC 2-7-6][IC 13-14-2-2][IC 13-30-3-1][IC 13-17-3-2]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.22 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.23 Annual Fee Payment [326 IAC 2-7-19][326 IAC 2-7-5(7)][326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.

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- (b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.24 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314][326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

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SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-7-5(1)]

C.1 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-1 (Applicability) and 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.2 Open Burning [326 IAC 4-1][IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

C.3 Incineration [326 IAC 4-2][326 IAC 9-1-2]

The Permittee shall not operate an incinerator except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

C.4 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

C.5 Asbestos Abatement Projects [326 IAC 14-10][326 IAC 18][40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
 - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;

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- (B) Removal or demolition contractor; or
- (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (e) **Procedures for Asbestos Emission Control**
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and Renovation**
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Licensed Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

Testing Requirements [326 IAC 2-7-6(1)]

C.6 Performance Testing [326 IAC 3-6]

- (a) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.7 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

Compliance Monitoring Requirements [326 IAC 2-7-5(1)][326 IAC 2-7-6(1)]

C.8 Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

- (a) For new units:
Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units shall be implemented on and after the date of initial start-up.
- (b) For existing units:
Unless otherwise specified in this permit, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance to begin such monitoring. If, due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

C.9 Instrument Specifications [326 IAC 2-1.1-11][326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than

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twenty percent (20%) of full scale. The analog instrument shall be capable of measuring values outside of the normal range.

- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

Corrective Actions and Response Steps [326 IAC 2-7-5][326 IAC 2-7-6]

C.10 Emergency Reduction Plans [326 IAC 1-5-2][326 IAC 1-5-3]

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee shall maintain the most recently submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.11 Risk Management Plan [326 IAC 2-7-5(11)][40 CFR 68]

If a regulated substance, as defined in 40 CFR 68, is present at a source in more than a threshold quantity, the Permittee must comply with the applicable requirements of 40 CFR 68.

C.12 Response to Excursions or Exceedances [326 IAC 2-7-5][326 IAC 2-7-6]

Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:

- (a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
 - (1) initial inspection and evaluation;
 - (2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system); or
 - (3) any necessary follow-up actions to return operation to normal or usual manner of operation.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
 - (1) monitoring results;
 - (2) review of operation and maintenance procedures and records; and/or
 - (3) inspection of the control device, associated capture system, and the process.

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- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall record the reasonable response steps taken.

C.13 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5][326 IAC 2-7-6]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-19]

C.14 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

Pursuant to 326 IAC 2-6-3(b)(2), starting in 2005 and every three (3) years thereafter, the Permittee shall submit by July 1 an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

- (1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);
- (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1(33) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue
MC 61-50 IGCN 1003
Indianapolis, Indiana 46204-2251

The emission statement does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

C.15 General Record Keeping Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-6]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. Support information includes the following, where applicable:
 - (AA) All calibration and maintenance records.
 - (BB) All original strip chart recordings for continuous monitoring instrumentation.

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(CC) Copies of all reports required by the Part 70 permit.

Records of required monitoring information include the following, where applicable:

(AA) The date, place, as defined in this permit, and time of sampling or measurements.

(BB) The dates analyses were performed.

(CC) The company or entity that performed the analyses.

(DD) The analytical techniques or methods used.

(EE) The results of such analyses.

(FF) The operating conditions as existing at the time of sampling or measurement.

These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

- (b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

C.16 General Reporting Requirements [326 IAC 2-7-5(3)(C)][326 IAC 2-1.1-11]

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Proper notice submittal under Section B - Emergency Provisions satisfies the reporting requirements of this paragraph. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported except that a deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.
- (b) The address for report submittal is:
- Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

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Stratospheric Ozone Protection

C.17 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with applicable standards for recycling and emissions reduction.

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SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) Nine (9) generators, consisting of the following:
- (1) Eight (8) large diesel/jet fuel-fired generators, Hub, constructed in 1997, with a maximum capacity of 20,744 hp (2593 hp each), identified as EU01, using catalytic oxidizers CE01A - CE01H for CO control, and exhausting to the atmosphere through stack/vents ST01A - ST01H; and
- These generators are existing affected units under the provisions of 40 CFR 63, Subpart ZZZZ.
- (2) One (1) diesel/jet fuel-fired generator, constructed in 2008, with a maximum capacity of 2450 kW (3285 hp), identified as EU11, exhausting to the atmosphere through stack vent ST11.
- The generator is an affected unit under the provisions of 40 CFR 60, Subpart IIII and a new affected unit under the provisions of 40 CFR 63, Subpart ZZZZ.
- (b) Two (2) natural gas fired Superior boilers, model year 2020, identified as EU06A, approved in 2020 for construction, with a maximum heat input capacity of 21.0 MMBTU/hr (each), and exhausting to the atmosphere through stack/vent ST05;
- The boilers are affected units under the provisions of 40 CFR 60, Subpart Dc.

Insignificant Activities:

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million Btu per hour:
- (1) Two (2) Cleaver Brooks natural gas fired boilers, each with a maximum heat input capacity of 3.5 million Btu per hour, constructed in 1996.
- (2) Three (3) Lochinvar natural gas fired boilers, each with a maximum heat input capacity of 1.5 million Btu per hour, permitted in 2009.
- (b) Fuel oil fired combustion sources with heat input equal to or less than 2.0 million Btu per hour and firing fuel containing less than five tenths percent (0.5%) sulfur by weight:
- (1) Five (5) Fire Pump Engines, each with a maximum heat input capacity of 0.03 million Btu per hour, constructed in 1991; and
- The engines are existing affected units under the provisions of 40 CFR 63, Subpart ZZZZ.
- (c) One (1) sanding booth, identified as SB-1, located in the composite shop, with a process weight rate of less than one hundred (100) pounds per hour, equipped with a baghouse dust collection unit, constructed in 2008;
- (g) Thirty-one (31) natural gas space heaters, with a total maximum heat input capacity of 12.2 MMBtu/hr;

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- (p) Six (6) emergency generators, consisting of the following:
- (1) Two (2) emergency diesel/jet fuel-fired generators, each with a maximum capacity of 896 hp, identified as EU02 - Matrix Building generator constructed in 1996, and EU03 - Truck Unloading Area generator, constructed in 1997, exhausting to the atmosphere through stack/vent ST02 and ST03, and each operated less than 500 hours per year;

These generators are existing affected units under the provisions of 40 CFR 63, Subpart ZZZZ.
 - (2) One (1) emergency diesel/jet fuel-fired generator, constructed in 1997, with a maximum capacity of 749 hp, identified as EU04 - GSE Building generator, exhausting to the atmosphere through stack/vent ST04, and operated less than 500 hours per year;

This generator is an existing affected unit under the provisions of 40 CFR 63, Subpart ZZZZ.
 - (3) One (1) emergency diesel generator, identified as EU05 - West Hangar generator, manufactured in 1996, installed by previous owner in 1997 and approved for installation at this site in 2017, with a maximum capacity of 851 HP, using no controls, and exhausting to the atmosphere through stack/vent ST05;

This generator is an existing affected unit under the provisions of 40 CFR 63, Subpart ZZZZ.
 - (4) One (1) support services building emergency diesel- fired generators, identified as EU15, constructed in 2008, with a maximum capacity of 275 Hp, using no control, exhausting to the atmosphere through stack ST15; and

The generator is an affected unit under the provisions of 40 CFR 60, Subpart IIII and a new affected unit under the provisions of 40 CFR 63, Subpart ZZZZ.
 - (5) One (1) East Hangar emergency diesel- fired generators, identified as EU16, installation and construction date unknown, with a maximum capacity of 192 Hp, using no control, exhausting to the atmosphere through stack/vent ST16.

This generator is an existing affected units under the provisions of 40 CFR 63, Subpart ZZZZ.
- (q) Two (2) existing natural gas-fired space heaters, with a maximum heat input capacity of 4.718 MMBTU/hr, each, located at the East Hangar.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.1.1 Prevention of Significant Deterioration (PSD) Minor Limit [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the Permittee shall comply with the following:

- (a) The operating hours of each of the diesel/jet fuel-fired generators associated with the Hub (EU01) shall not exceed 700 hours per twelve (12) consecutive month period, with compliance determined at the end of each month;

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- (b) The operating hours of the diesel/jet fuel-fired generator (EU11) shall not exceed 500 hours per twelve (12) consecutive month period, with compliance determined at the end of each month;
- (c) SO₂ emissions from each of the diesel/jet fuel-fired generators (EU01 and EU11) shall each not exceed 0.101 lb/MMBtu heat input;
- (d) NO_x emissions from each of the diesel/jet fuel-fired generators (EU01 and EU11) shall each not exceed 3.20 lb/MMBtu heat input; and
- (e) CO emissions from each of the diesel/jet fuel-fired generators (EU01 and EU11) shall each not exceed 0.85 lb/MMBtu heat input.

Compliance with these limits, combined with the potential SO₂, NO_x, and CO emissions from all other units at this source, will limit the source-wide potential to emit of SO₂, CO, and NO_x to less than 250 tons per twelve (12) consecutive month period, each, and shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

D.1.2 Sulfur Dioxide [326 IAC 7-1.1-1][326 IAC 7-2-1]

Pursuant to 326 IAC 7-1.1 (Sulfur Dioxide Emissions Limitations), sulfur dioxide (SO₂) emissions from each of the diesel/jet fuel-fired generators associated with the Hub (EU01) and diesel/jet fuel-fired generator (EU11) shall each not exceed five-tenths (0.5) pounds per million Btu heat input. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a calendar month average.

D.1.3 Particulate Matter [326 IAC 6.5-1-2]

- (a) Pursuant to 326 IAC 6.5-1-2(b)(3), particulate matter emissions from the two (2) Superior boilers, model year 2020, identified as EU06A, two (2) Cleaver Brooks boilers and three (3) Lochnivar boilers shall not exceed one-hundredth (0.01) grain per dry standard cubic foot (dscf).
- (b) Pursuant to 326 IAC 6.5-1-2(a), the particulate matter from each of the diesel/jet fuel-fired generators (EU01 through EU05, EU11, EU15, and EU16), the five (5) fire pump engines, the sanding booth, and all space heaters shall not exceed three-hundredths (0.03) grain per dry standard cubic foot (gr/dscf).

D.1.4 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

A Preventive Maintenance Plan is required for these facilities and their control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements [326 IAC 2-7-5(1)]

D.1.5 Sulfur Dioxide Emissions and Sulfur Content

Compliance with Condition D.1.2 for each of the diesel/jet fuel-fired generators associated with the Hub (EU01) and diesel/jet fuel-fired generator (EU11) shall be determined utilizing one of the following options.

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that sulfur dioxide emissions do not exceed five-tenths (0.5) pounds per million Btu heat input by:
 - (1) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification, or;

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- (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
 - (A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
 - (B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from each of the eight (8) large diesel/Jet fuel generators associated with the Hub(EU01) and diesel/jet fuel-fired generator (EU11) using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

A determination of noncompliance pursuant to any of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

D.1.6 Particulate Control

In order to comply with Condition D.1.3, the baghouse for particulate control shall be in operation and control emissions from the sanding booth at all times that the booth is in operation.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-19]

D.1.7 Record Keeping Requirements

- (a) To document the compliance status with Conditions D.1.1 (a) and D.1.1 (b), the Permittee shall keep records of the hours of operation for each of the diesel/jet fuel-fired generators associated with the Hub (EU01) and diesel/jet fuel-fired generator (EU11) for each month and each compliance period. Records necessary to demonstrate compliance shall be available within thirty (30) days of the end of each compliance period.
- (b) To document the compliance status with Condition D.1.2, the Permittee shall maintain records in accordance with (1) through (6) below for each of the diesel/jet fuel-fired generators associated with the Hub (EU01) and diesel/jet fuel-fired generator (EU11).
 - (1) Calendar dates covered in the compliance determination period;
 - (2) Actual fuel oil usage since last compliance determination period and equivalent sulfur dioxide emissions;
 - (3) When the generators associated with the Hub (EU01) and generator (EU11) were burning diesel and when they burning jet fuel-fired.

If the fuel supplier certification is used to demonstrate compliance, the following, as a minimum, shall be maintained:

- (4) Fuel supplier certifications;
- (5) The name of the fuel supplier; and
- (6) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.

The Permittee shall retain records of all recording/monitoring data and support information for a period of five (5) years, or longer if specified elsewhere in this permit, from the date of the monitoring sample, measurement, or report. Support information

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includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit.

- (c) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

D.1.8 Reporting Requirements

Quarterly summaries of the information to document the compliance status with Conditions D.1.1 (a) and D.1.1 (b) shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The reports submitted by the Permittee do require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official," as defined by 326 IAC 2-7-1(35).

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SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Insignificant Activities:

- (d) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6, identified as small shop parts degreasers with internal lids.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5 (1)]

D.2.1 Cold Cleaner Degreaser Control Equipment and Operating Requirements [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Degreaser Control and Equipment Operating Requirements), the Permittee shall:

- (a) Ensure the following control equipment and operating requirements are met:
 - (1) Equip the degreaser with a cover.
 - (2) Equip the degreaser with a device for draining cleaned parts.
 - (3) Close the degreaser cover whenever parts are not being handled in the degreaser.
 - (4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
 - (5) Provide a permanent, conspicuous label that lists the operating requirements in subdivisions (3), (4), (6), and (7).
 - (6) Store waste solvent only in closed containers.
 - (7) Prohibit the disposal or transfer of waste solvent in such a manner that could allow greater than twenty percent (20%) of the waste solvent (by weight) to evaporate into the atmosphere.
- (b) Ensure the following additional control equipment and operating requirements are met:
 - (1) Equip the degreaser with one (1) of the following control devices if the solvent is heated to a temperature of greater than forty-eight and nine-tenths (48.9) degrees Celsius (one hundred twenty (120) degrees Fahrenheit):
 - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - (B) A water cover when solvent used is insoluble in, and heavier than, water.
 - (C) A refrigerated chiller.
 - (D) Carbon adsorption.
 - (E) An alternative system of demonstrated equivalent or better control as those outlined in clauses (A) through (D) that is approved by the department. An alternative system shall be submitted to the U.S. EPA as a SIP revision.
 - (2) Ensure the degreaser cover is designed so that it can be easily operated with

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one (1) hand if the solvent is agitated or heated.

- (3) If used, solvent spray:
 - (A) Must be a solid, fluid stream; and
 - (B) Shall be applied at a pressure that does not cause excessive splashing.

D.2.2 Material Requirements for Cold Cleaner Degreasers [326 IAC 8-3-8]

Pursuant to 326 IAC 8-3-8 (Material Requirements for Cold Cleaner Degreasers), on and after January 1, 2015, the Permittee shall not operate a cold cleaning degreaser with a solvent that has a VOC composite partial vapor pressure that exceeds one (1) millimeter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

D.2.3 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

A Preventive Maintenance Plan is required for these facilities and their control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.

Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)][326 IAC 2-7-19]

D.2.4 Record Keeping Requirements

To document the compliance status with Condition D.2.1, on and after January 1, 2015, the Permittee shall maintain the following records for each purchase of solvent used in the cold cleaner degreasing operations. These records shall be retained on-site or accessible electronically for the most recent three (3) year period and shall be reasonably accessible for an additional two (2) year period.

- (a) The name and address of the solvent supplier.
- (b) The date of purchase.
- (c) The type of solvent purchased.
- (d) The total volume of the solvent purchased.
- (e) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the record keeping required by this condition.

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SECTION E.1

NSPS

Emissions Unit Description:

- (b) Two (2) natural gas fired Superior boilers, model year 2020, identified as EU06A, approved in 2020 for construction, with a maximum heat input capacity of 21.0 MMBTU/hr (each), and exhausting to the atmosphere through stack/vent ST05;

The boilers are affected units under the provisions of 40 CFR 60, Subpart Dc.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

New Source Performance Standards (NSPS) Requirements [326 IAC 2-7-5(1)]

E.1.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1][40 CFR Part 60, Subpart A]

- (a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference as 326 IAC 12-1, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 60, Subpart Dc.

- (b) Pursuant to 40 CFR 60.4, the Permittee shall submit all required notifications and reports to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

E.1.2 Small Industrial-Commercial-Institutional Steam Generating Units NSPS [326 IAC 12][40 CFR Part 60, Subpart Dc]

The Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart Dc (included as Attachment A to the operating permit), which are incorporated by reference as 326 IAC 12, for the emission unit(s) listed above:

- (1) 40 CFR 60.40c(a);
- (2) 40 CFR 60.40c(b);
- (3) 40 CFR 60.41c;
- (4) 40 CFR 63.48c(a)(1);
- (5) 40 CFR 63.48c(g);
- (6) 40 CFR 63.48c(i); and
- (7) 40 CFR 63.48c (j).

DRAFT

SECTION E.2

NSPS

Emissions Unit Description:

- (2) One (1) diesel/jet fuel-fired generator, constructed in 2008, with a maximum capacity of kW (3285 hp), identified as EU11, exhausting to the atmosphere through stack vent ST11.

The generator is an affected unit under the provisions of 40 CFR 60, Subpart IIII and a new affected unit under the provisions of 40 CFR 63, Subpart ZZZZ.

Insignificant activities:

- (4) One (1) support services building emergency diesel- fired generators, identified as EU15, constructed in 2008, with a maximum capacity of 275 Hp, using no control, exhausting to the atmosphere through stack/vent ST15; and

The generator is an affected unit under the provisions of 40 CFR 60, Subpart IIII and a new affected unit under the provisions of 40 CFR 63, Subpart ZZZZ.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

New Source Performance Standards (NSPS) Requirements [326 IAC 2-7-5(1)]

E.2.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1][40 CFR Part 60, Subpart A]

- (a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference as 326 IAC 12-1, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 60, Subpart Dc.
- (b) Pursuant to 40 CFR 60.4, the Permittee shall submit all required notifications and reports to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

E.2.2 Compression Ignition Internal Combustion Engines, NSPS [326 IAC 12][40 CFR Part 60, Subpart IIII]

The Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart IIII (included as Attachment B to the operating permit), which are incorporated by reference as 326 IAC 12.

- (a) Diesel/jet fuel-fired generator (EU11):
- (1) 40 CFR 60.4200(a)(2) and (c)
 - (2) 40 CFR 60.4204(b) and (d)
 - (3) 40 CFR 60.4206
 - (4) 40 CFR 60.4207(b)
 - (5) 40 CFR 60.4211(a), (c), and (g)
 - (6) 40 CFR 60.4212(a), (c), and (d)
 - (7) 40 CFR 60.4218
 - (8) 40 CFR 60.4219

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- (9) Table 1
- (10) Table 8

(b) Support services building emergency diesel- fired generator (EU15):

- (1) 40 CFR 60.4200(a)(2) and (c)
- (2) 40 CFR 60.4205(a)
- (3) 40 CFR 60.4206
- (4) 40 CFR 60.4207 (a) and (b)
- (5) 40 CFR 60.4209 (a)
- (6) 40 CFR 60.4211(f) and (g)
- (7) 40 CFR 60.4212(a), (c), and (d)
- (8) 40 CFR 60.4214 (b)
- (9) 40 CFR 60.4218
- (10) 40 CFR 60.4219
- (11) Table 1
- (12) Table 8

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SECTION E.3

NESHAP

Emissions Unit Description:

(a) Nine (9) generators, consisting of the following:

- (1) Eight (8) large diesel/jet fuel-fired generators, Hub, constructed in 1997, with a maximum capacity of 20,744 hp (2593 hp each), identified as EU01, using catalytic oxidizers CE01A - CE01H for CO control, and exhausting to the atmosphere through stack/vents ST01A - ST01H; and

These generators are existing affected units under the provisions of 40 CFR 63, Subpart ZZZZ.

- (2) One (1) diesel/jet fuel-fired generator, constructed in 2008, with a maximum capacity of kW (3285 hp), identified as EU11, exhausting to the atmosphere through stack vent ST11.

The generator is an affected unit under the provisions of 40 CFR 60, Subpart IIII and a new affected unit under the provisions of 40 CFR 63, Subpart ZZZZ.

Insignificant Activities:

- (1) Five (5) Fire Pump Engines, each with a maximum heat input capacity of 0.03 million Btu per hour, constructed in 1991;

The engines are existing affected units under the provisions of 40 CFR 63, Subpart ZZZZ.

(p) Six (6) emergency generators, consisting of the following:

- (1) Two (2) emergency diesel/jet fuel-fired generators, each with a maximum capacity of 896 hp, identified as EU02 - Matrix Building generator constructed in 1996, and EU03 - Truck Unloading Area generator, constructed in 1997, exhausting to the atmosphere through stack/vent ST02 and ST03, and each operated less than 500 hours per year;

These generators are existing affected units under the provisions of 40 CFR 63, Subpart ZZZZ.

- (2) One (1) emergency diesel/jet fuel-fired generator, constructed in 1997, with a maximum capacity of 749 hp, identified as EU04 - GSE Building generator, exhausting to the atmosphere through stack/vent ST04, and operated less than 500 hours per year;

This generator is an existing affected unit under the provisions of 40 CFR 63, Subpart ZZZZ.

- (3) One (1) emergency diesel generator, identified as EU05 - West Hangar generator, manufactured in 1996, installed by previous owner in 1997 and approved for installation at this site in 2017, with a maximum capacity of 851 HP, using no controls, and exhausting to the atmosphere through stack/vent ST05;

This generator is an existing affected unit under the provisions of 40 CFR 63, Subpart ZZZZ.

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- (4) One (1) support services building emergency diesel- fired generators, identified as EU15, constructed in 2008, with a maximum capacity of 275 Hp, using no control, exhausting to the atmosphere through stack/vent ST15; and

The generator is an affected unit under the provisions of 40 CFR 60, Subpart IIII and a new affected unit under the provisions of 40 CFR 63, Subpart ZZZZ.

- (5) One (1) East Hangar emergency diesel- fired generators, identified as EU16, installation and construction date unknown, with a maximum capacity of 192 Hp, using no control, exhausting to the atmosphere through stack/vent ST16.

This generator is an existing affected units under the provisions of 40 CFR 63, Subpart ZZZZ.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-7-5(1)]

E.3.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants under 40 CFR Part 63 [326 IAC 20-1][40 CFR Part 63, Subpart A]

- (a) Pursuant to 40 CFR 63.1 the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated by reference as 326 IAC 20-1, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 63, Subpart ZZZZ.

- (b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

E.3.2 National Emissions Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines, NESHAP [40 CFR Part 63, Subpart ZZZZ][326 IAC 20-82]

The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart ZZZZ (included as Attachment C to the operating permit), which are incorporated by reference as 326 IAC 20-82.

- (a) Each of the diesel/jet fuel-fired generators associated with the Hub (EU01):

- (1) 40 CFR 63.6580
- (2) 40 CFR 63.6585
- (3) 40 CFR 63.6590(a)(1)(iii) and (iv)
- (4) 40 CFR 63.6595(a)(1), (b), and (c)
- (5) 40 CFR 63.6603(a) and (e)
- (6) 40 CFR 63.6604(a)
- (7) 40 CFR 63.6605
- (8) 40 CFR 63.6612
- (9) 40 CFR 63.6615
- (10) 40 CFR 63.6620(a), (d), (e), (f), (g), (h), and (i)
- (11) 40 CFR 63.6625(g) and (h)

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- (12) 40 CFR 63.6630(a), (b), and (c)
- (13) 40 CFR 63.6635
- (14) 40 CFR 63.6640(a), (b), and (e)
- (15) 40 CFR 63.6645 (a)(2), (g), and (h)
- (16) 40 CFR 63.6650
- (17) 40 CFR 63.6655
- (18) 40 CFR 63.6660
- (19) 40 CFR 63.6665
- (20) 40 CFR 63.6670
- (21) 40 CFR 63.6675
- (22) Table 2b
- (23) Table 2d (item 3)
- (24) Table 3 (item 4)
- (25) Table 4 (items 1 and 3)
- (26) Table 5 (items 1, 2, 3, 4, 5, and 6)
- (27) Table 6 (items 3, 10, and 11)
- (28) Table 7 (item 1)
- (29) Table 8

- (b) Five (5) diesel/jet fuel-fired emergency generators (EU02 through EU05, and EU16) and the five (5) diesel fire pump engines:

- (1) 40 CFR 63.6580
- (2) 40 CFR 63.6585
- (3) 40 CFR 63.6590(a)(1)(iii) and (iv)
- (4) 40 CFR 63.6595(a)(1), (b), and (c)
- (5) 40 CFR 63.6603(a)
- (6) 40 CFR 63.6605
- (7) 40 CFR 63.6625(e)(3), (f), (h), and (i)
- (8) 40 CFR 63.6635
- (9) 40 CFR 63.6640(a), (b), (e), and (f)
- (10) 40 CFR 63.6645(a)(5)
- (11) 40 CFR 63.6650
- (12) 40 CFR 63.6655
- (13) 40 CFR 63.6660
- (14) 40 CFR 63.6665
- (15) 40 CFR 63.6670
- (16) 40 CFR 63.6675
- (17) Table 2d (item 4)
- (18) Table 6 (item 9)
- (19) Table 8

- (c) Two (2) diesel/jet fuel-fired generators (EU11 and EU15):

- (1) 40 CFR 63.6580
- (2) 40 CFR 63.6585
- (3) 40 CFR 63.6590(a)(2)(iii) and (c)(1)
- (4) 40 CFR 63.6595(a)(7)
- (5) 40 CFR 63.6665
- (6) 40 CFR 63.6670
- (7) 40 CFR 63.6675

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SECTION E.4

NESHAP

Emissions Unit Description:

(c) One (1) fuel dispensing and storage operation consisting of the following:

(6) One (1) gasoline dispensing facility, identified as EU09D, constructed in 1986, with a maximum daily throughput of 2,893 gallons, dispensing fuel into bowsers for onsite vehicle refueling, using no controls, and exhausting directly to the atmosphere;

The facility is an affected unit under the provisions of 40 CFR 63, Subpart CCCCCC.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-7-5(1)]

E.4.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants under 40 CFR Part 63 [326 IAC 20-1][40 CFR Part 63, Subpart A]

(a) Pursuant to 40 CFR 63.1 the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated by reference as 326 IAC 20-1, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 63, Subpart CCCCCC

(b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

E.4.2 National Emissions Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines, NESHAP [40 CFR Part 63, Subpart CCCCCC]

The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart CCCCCC (included as Attachment D to the operating permit), except as otherwise specified in 40 CFR Part 63, Subpart CCCCCC, for the gasoline dispensing facility:

- (1) 40 CFR 63.11110
- (2) 40 CFR 63.11111(a), (b), (e), (f), (h), (i), (j), and (k)
- (3) 40 CFR 63.11112
- (4) 40 CFR 63.11113(a)
- (5) 40 CFR 63.11115
- (6) 40 CFR 63.11116
- (7) 40 CFR 63.11125(d)
- (8) 40 CFR 63.11126(b)
- (9) 40 CFR 63.11130
- (10) 40 CFR 63.11131
- (11) 40 CFR 63.11132
- (12) Table 3

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E.4.3 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

A Preventive Maintenance Plan is required for these facilities and their control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.

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**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: Federal Express Corporation
Source Address: 6648 Perimeter Road, Indianapolis, Indiana 46241
Part 70 Permit No.: T097-41903-00257

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.

Please check what document is being certified:

- Annual Compliance Certification Letter
- Test Result (specify) _____
- Report (specify) _____
- Notification (specify) _____
- Affidavit (specify) _____
- Other (specify) _____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Phone:

Date:

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**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: (317) 233-0178
Fax: (317) 233-6865**

**PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT**

Source Name: Federal Express Corporation
Source Address: 6648 Perimeter Road, Indianapolis, Indiana 46241
Part 70 Permit No.: T097-41903-00257

This form consists of 2 pages

Page 1 of 2

- This is an emergency as defined in 326 IAC 2-7-1(12)
- The Permittee must notify the Office of Air Quality (OAQ), within four (4) daytime business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and
 - The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

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If any of the following are not applicable, mark N/A

Page 2 of 2

Date/Time Emergency started:		
Date/Time Emergency was corrected:		
Was the facility being properly operated at the time of the emergency?	Y	N
Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , CO, Pb, other:		
Estimated amount of pollutant(s) emitted during emergency:		
Describe the steps taken to mitigate the problem:		
Describe the corrective actions/response steps taken:		
Describe the measures taken to minimize emissions:		
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:		

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

DRAFT

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH**

Part 70 Quarterly Report

Source Name: Federal Express Corporation
Source Address: 6648 Perimeter Road, Indianapolis, Indiana 46241
Part 70 Permit No.: T097-41903-00257
Facility: Diesel/jet fuel-fired generator Hub (EU01), Generator 1
Parameter: Hours of Operation
Limit: The operating hours of each of the diesel/jet fuel-fired generators associated with the Hub (EU01) shall not exceed 700 hours per twelve (12) month consecutive period, with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	<i>(Hours of Operation) (EU01 Generator 1)</i>	<i>(Hours of Operation) (EU01 Generator 1)</i>	<i>(Hours of Operation) (EU01 Generator 1)</i>
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

DRAFT

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH**

Part 70 Quarterly Report

Source Name: Federal Express Corporation
Source Address: 6648 Perimeter Road, Indianapolis, Indiana 46241
Part 70 Permit No.: T097-41903-00257
Facility: Diesel/jet fuel-fired generator Hub (EU01), Generator 2
Parameter: Hours of Operation
Limit: The operating hours of each of the diesel/jet fuel-fired generators associated with the Hub (EU01) shall not exceed 700 hours per twelve (12) month consecutive period, with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	<i>(Hours of Operation) (EU01 Generator 2)</i>	<i>(Hours of Operation) (EU01 Generator 2)</i>	<i>(Hours of Operation) (EU01 Generator 2)</i>
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

DRAFT

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH**

Part 70 Quarterly Report

Source Name: Federal Express Corporation
Source Address: 6648 Perimeter Road, Indianapolis, Indiana 46241
Part 70 Permit No.: T097-41903-00257
Facility: Diesel/jet fuel-fired generator Hub (EU01), Generator 3
Parameter: Hours of Operation
Limit: The operating hours of each of the diesel/jet fuel-fired generators associated with the Hub (EU01) shall not exceed 700 hours per twelve (12) month consecutive period, with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	<i>(Hours of Operation) (EU01 Generator 3)</i>	<i>(Hours of Operation) (EU01 Generator 3)</i>	<i>(Hours of Operation) (EU01 Generator 3)</i>
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

DRAFT

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH**

Part 70 Quarterly Report

Source Name: Federal Express Corporation
Source Address: 6648 Perimeter Road, Indianapolis, Indiana 46241
Part 70 Permit No.: T097-41903-00257
Facility: Diesel/jet fuel-fired generator Hub (EU01), Generator 4
Parameter: Hours of Operation
Limit: The operating hours of each of the diesel/jet fuel-fired generators associated with the Hub (EU01) shall not exceed 700 hours per twelve (12) month consecutive period, with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	<i>(Hours of Operation) (EU01 Generator 4)</i>	<i>(Hours of Operation) (EU01 Generator 4)</i>	<i>(Hours of Operation) (EU01 Generator 4)</i>
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

DRAFT

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH**

Part 70 Quarterly Report

Source Name: Federal Express Corporation
Source Address: 6648 Perimeter Road, Indianapolis, Indiana 46241
Part 70 Permit No.: T097-41903-00257
Facility: Diesel/jet fuel-fired generator Hub (EU01), Generator 5
Parameter: Hours of Operation
Limit: The operating hours of each of the diesel/jet fuel-fired generators associated with the Hub (EU01) shall not exceed 700 hours per twelve (12) month consecutive period, with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	<i>(Hours of Operation) (EU01 Generator 5)</i>	<i>(Hours of Operation) (EU01 Generator 5)</i>	<i>(Hours of Operation) (EU01 Generator 5)</i>
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

DRAFT

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH**

Part 70 Quarterly Report

Source Name: Federal Express Corporation
Source Address: 6648 Perimeter Road, Indianapolis, Indiana 46241
Part 70 Permit No.: T097-41903-00257
Facility: Diesel/jet fuel-fired generator Hub (EU01), Generator 6
Parameter: Hours of Operation
Limit: The operating hours of each of the diesel/jet fuel-fired generators associated with the Hub (EU01) shall not exceed 700 hours per twelve (12) month consecutive period, with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	<i>(Hours of Operation) (EU01 Generator 6)</i>	<i>(Hours of Operation) (EU01 Generator 6)</i>	<i>(Hours of Operation) (EU01 Generator 6)</i>
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

DRAFT

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH**

Part 70 Quarterly Report

Source Name: Federal Express Corporation
Source Address: 6648 Perimeter Road, Indianapolis, Indiana 46241
Part 70 Permit No.: T097-41903-00257
Facility: Diesel/jet fuel-fired generator Hub (EU01), Generator 7
Parameter: Hours of Operation
Limit: The operating hours of each of the diesel/jet fuel-fired generators associated with the Hub (EU01) shall not exceed 700 hours per twelve (12) month consecutive period, with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	<i>(Hours of Operation) (EU01 Generator 7)</i>	<i>(Hours of Operation) (EU01 Generator 7)</i>	<i>(Hours of Operation) (EU01 Generator 7)</i>
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

DRAFT

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH**

Part 70 Quarterly Report

Source Name: Federal Express Corporation
Source Address: 6648 Perimeter Road, Indianapolis, Indiana 46241
Part 70 Permit No.: T097-41903-00257
Facility: Diesel/jet fuel-fired generator Hub (EU01), Generator 8
Parameter: Hours of Operation
Limit: The operating hours of each of the diesel/jet fuel-fired generators associated with the Hub (EU01) shall not exceed 700 hours per twelve (12) month consecutive period, with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	<i>(Hours of Operation) (EU01 Generator 8)</i>	<i>(Hours of Operation) (EU01 Generator 8)</i>	<i>(Hours of Operation) (EU01 Generator 8)</i>
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

DRAFT

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH**

Part 70 Quarterly Report

Source Name: Federal Express Corporation
Source Address: 6648 Perimeter Road, Indianapolis, Indiana 46241
Part 70 Permit No.: T097-41903-00257
Facility: Diesel/jet fuel-fired generator (EU11)
Parameter: Hours of Operation
Limit: The operating hours of the diesel/jet fuel-fired generator (EU11) shall not exceed 500 hours per twelve (12) consecutive month period, with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	<i>(Hours of Operation) (EU11)</i>	<i>(Hours of Operation) (EU11)</i>	<i>(Hours of Operation) (EU11)</i>
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

DRAFT

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Federal Express Corporation
Source Address: 6648 Perimeter Road, Indianapolis, Indiana 46241
Part 70 Permit No.: T097-41903-00257

Months: _____ to _____ Year: _____

Page 1 of 2

<p>This report shall be submitted quarterly based on a calendar year. Proper notice submittal under Section B - Emergency Provisions satisfies the reporting requirements of paragraph (a) of Section C- General Reporting. Any deviation from the requirements of this permit, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".</p>	
<input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

**Indiana Department of Environmental Management
Office of Air Quality**

**Technical Support Document (TSD) for a Part 70 Minor Source
Modification and Minor Permit Modification**

Source Description and Location

Source Name:	Federal Express Corporation
Source Location:	6648 Perimeter Road, Indianapolis, IN, 46241
County:	Marion (Decatur Township)
SIC Code:	4513 (Air Courier Services)
Operation Permit No.:	T097-41903-00257
Operation Permit Issuance Date:	May, 27, 2020
Minor Source Modification No.:	097-43212-00257
Minor Permit Modification:	097-43308-00257
Permit Reviewer:	Dylan Finley

Existing Approvals

The source was issued Part 70 Operating Permit Renewal No. T097-41903-00257 on May 5, 2020. The source has since received the following approvals:

- (a) Administrative Amendment No. 097-42959-00257, issued on June 24, 2020.

County Attainment Status

The source is located in Marion County.

Pollutant	Designation
SO ₂	Attainment effective May 21, 2020, for the 2010 SO ₂ standard for Center, Perry, and Wayne townships. Better than national standards for the remainder of the county.
CO	Attainment effective February 18, 2000, for the part of the city of Indianapolis bounded by 11th Street on the north; Capitol Avenue on the west; Georgia Street on the south; and Delaware Street on the east. Unclassifiable or attainment effective November 15, 1990, for the remainder of Indianapolis and Marion County.
O ₃	Unclassifiable or attainment effective January 16, 2018, for the 2015 8-hour ozone standard.
PM _{2.5}	Unclassifiable or attainment effective April 15, 2015, for the 2012 annual PM _{2.5} standard.
PM _{2.5}	Unclassifiable or attainment effective December 13, 2009, for the 2006 24-hour PM _{2.5} standard.
PM ₁₀	Unclassifiable effective November 15, 1990.
NO ₂	Unclassifiable or attainment effective January 29, 2012, for the 2010 NO ₂ standard.
Pb	Unclassifiable or attainment effective December 31, 2011, for the 2008 lead standard.

- (a) **Ozone Standards**
Volatile organic compounds (VOC) and Nitrogen Oxides (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to ozone. Marion County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

- (b) **PM_{2.5}**
 Marion County has been classified as attainment for PM_{2.5}. Therefore, direct PM_{2.5}, SO₂, and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (c) **Other Criteria Pollutants**
 Marion County has been classified as attainment or unclassifiable in Indiana for all the other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

Since this type of operation is not one (1) of the twenty-eight (28) listed source categories under 326 IAC 2-2-1(ff)(1), 326 IAC 2-3-2(g), or 326 IAC 2-7-1(22)(B), and there is no applicable New Source Performance Standard or National Emission Standard for Hazardous Air Pollutants that was in effect on August 7, 1980, fugitive emissions are not counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

The fugitive emissions of hazardous air pollutants (HAP) are counted toward the determination of Part 70 Permit applicability and source status under Section 112 of the Clean Air Act (CAA).

Greenhouse Gas (GHG) Emissions

On June 23, 2014, in the case of *Utility Air Regulatory Group v. EPA*, cause no. 12-1146, (available at http://www.supremecourt.gov/opinions/13pdf/12-1146_4g18.pdf) the United States Supreme Court ruled that the U.S. EPA does not have the authority to treat greenhouse gases (GHGs) as an air pollutant for the purpose of determining operating permit applicability or PSD Major source status. On July 24, 2014, the U.S. EPA issued a memorandum to the Regional Administrators outlining next steps in permitting decisions in light of the Supreme Court's decision. U.S. EPA's guidance states that U.S. EPA will no longer require PSD or Title V permits for sources "previously classified as 'Major' based solely on greenhouse gas emissions."

The Indiana Environmental Rules Board adopted the GHG regulations required by U.S. EPA at 326 IAC 2-2-1(zz), pursuant to Ind. Code § 13-14-9-8(h) (Section 8 rulemaking). A rule, or part of a rule, adopted under Section 8 is automatically invalidated when the corresponding federal rule, or part of the rule, is invalidated. Due to the United States Supreme Court Ruling, IDEM, OAQ cannot consider GHG emissions to determine operating permit applicability or PSD applicability to a source or modification.

Source Status - Existing Source

The table below summarizes the potential to emit of the entire source, prior to the proposed modification, after consideration of all enforceable limits established in the effective permits. If the control equipment has been determined to be integral, the table reflects the potential to emit (PTE) after consideration of the integral control device.

	Source-Wide Emissions Prior to Modification (ton/year)								
	PM ¹	PM ₁₀ ¹	PM _{2.5} ^{1, 2}	SO ₂	NO _x	VOC	CO	Single HAP ³	Total HAPs
Total PTE of Entire Source Excluding Fugitive Emissions*	94.51	58.37	58.37	426.09	2568.29	97.50	599.64	<10	<25

	Source-Wide Emissions Prior to Modification (ton/year)								
	PM ¹	PM ₁₀ ¹	PM _{2.5} ^{1, 2}	SO ₂	NO _x	VOC	CO	Single HAP ³	Total HAPs
Title V Major Source Thresholds	NA	100	100	100	100	100	100	10	25
PSD Major Source Thresholds	250	250	250	250	250	250	250	--	--

¹Under the Part 70 Permit program (40 CFR 70), PM₁₀ and PM_{2.5}, not particulate matter (PM), are each considered as a "regulated air pollutant."
²PM_{2.5} listed is direct PM_{2.5}.
³Single highest source-wide HAP
 *Fugitive HAP emissions are always included in the source-wide emissions.

- (a) This existing source is not a major stationary source, under PSD (326 IAC 2-2), because no PSD regulated pollutant is emitted at a rate of two hundred fifty (250) tons per year or more and it is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(ff)(1).
- (b) This existing source is not a major source of HAP, as defined in 40 CFR 63.2, because HAP emissions are less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs.
- (c) These emissions are based on the TSD of TV Renewal No. T097-41903-00257, issued on May 27, 2020.

Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed an application, submitted by Federal Express Corporation on August 28, 2020, relating to the construction of two (2) Superior boilers, model year 2020, and the incorporation of two (2) existing natural gas-fired space heaters to the permit.

The following is a list of the new and modified emission units and pollution control devices:

- (a) Two (2) natural gas-fired Superior boilers, model year 2020, identified as EU06A, approved in 2020 for construction, with a maximum heat input capacity of 21.0 MMBTU/hr (each), and exhausting to the atmosphere through stack/vent ST05.
- (b) Two (2) natural gas-fired space heaters, with a maximum heat input capacity of 4.718 MMBTU/hr, each, located at the East Hangar.

As part of this permitting action, the following emission units are being removed the permit:

- (b) Two (2) 31.385 million Btu per hour natural gas fired Johnston boilers, constructed in 1990, identified as EU06, exhausting to the atmosphere through stack/vent ST05;

Enforcement Issues

There are no pending enforcement actions related to this modification.

Emission Calculations

See Appendix A of this Technical Support Document for detailed emission calculations.

Permit Level Determination - Part 70 Modification to an Existing Source

Pursuant to 326 IAC 2-1.1-1(12), Potential to Emit is defined as “the maximum capacity of a stationary source or emission unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, IDEM, or the appropriate local air pollution control agency.”

The following table is used to determine the appropriate permit level under 326 IAC 2-7-10.5. This table reflects the PTE before controls. If the control equipment has been determined to be integral, the table reflects the potential to emit (PTE) after consideration of the integral control device.

Process / Emission Unit	PTE Before Controls of the New Emission Units (ton/year)								
	PM	PM ₁₀	PM _{2.5} ¹	SO ₂	NO _x	VOC	CO	Single HAP ² (Hexane)	Total HAPs
Two (2) Superior Boilers	0.34	1.37	1.37	0.11	18.04	0.99	15.15	0.32	0.34
Two (2) Space Heaters	0.08	0.31	0.31	0.02	4.05	0.22	3.40	0.07	0.08
Total PTE Before Controls of the New Emission Units:	0.42	1.68	1.68	0.13	22.09	1.21	18.55	0.40	0.42

¹PM_{2.5} listed is direct PM_{2.5}.
²Single highest HAP.

Appendix A of this TSD reflects the detailed potential emissions of the modification.

(a) Approval to Construct

Pursuant to 326 IAC 2-7-10.5(e)(1)(B), a Minor Source Modification is required because this modification has the potential to emit NO_x that is less than twenty-five (25) tons per year and equal to or greater than ten (10) tons per year.

(b) Approval to Operate

Pursuant to 326 IAC 2-7-12(b)(1), this change to the permit is being made through a Minor Permit Modification because:

- (A) The modification does not violate any applicable requirement.
- (B) The modification does not involve significant changes to existing monitoring, reporting or record keeping requirements in the Part 70 permit.
- (C) The modification does not require or change:
 - (i) a case-by-case determination of an emission limitation or other standard;
 - (ii) source specific determination for temporary sources of ambient impacts; or
 - (iii) visibility or increment analysis.
- (D) The modification does not seek to establish or change a Part 70 permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject. This includes the following:
 - (i) A federally enforceable emissions cap assumed to avoid classification as a modification under any provision of Title I of the CAA.
 - (ii) An alternative emissions limit approved under regulations promulgated under Section 112(i)(5) of the CAA.
- (E) This change is not a modification under any provision of Title I of the CAA.
- (F) This change is not required by the Part 70 program to be processed as a significant modification.

PTE of the Entire Source After Issuance of the Part 70 Modification

The table below summarizes the after issuance source-wide potential to emit, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of the Part 70 source modification, and only to the extent that the effect of the control equipment is made practically enforceable in the permit. If the control equipment has been determined to be integral, the table reflects the potential to emit (PTE) after consideration of the integral control device.

	Source-Wide Emissions After Issuance (ton/year)								Total HAPs
	PM ¹	PM ₁₀ ¹	PM _{2.5} ^{1, 2}	SO ₂	NO _x	VOC	CO	Single HAP ³	
Total PTE of Entire Source Excluding Fugitives*	26.56	19.98	19.98	33.11	244.03	29.42	71.71	<10	<25
Title V Major Source Thresholds	NA	100	100	100	100	100	100	10	25
PSD Major Source Thresholds	250	250	250	250	250	250	250	--	--

¹Under the Part 70 Permit program (40 CFR 70), PM₁₀ and PM_{2.5}, not particulate matter (PM), are each considered as a "regulated air pollutant."
²PM_{2.5} listed is direct PM_{2.5}.
³Single highest source-wide HAP
 *Fugitive HAP emissions are always included in the source-wide emissions.

The source opted to take limit(s) in order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to this source. See Technical Support Document (TSD) State Rule Applicability - Entire Source section, 326 IAC 2-2 (PSD) for more information regarding the limit(s).

- (a) This existing minor PSD stationary source will continue to be minor under 326 IAC 2-2 because the emissions of each PSD regulated pollutant will continue to be less than the PSD major source thresholds.
- (b) This existing area source of HAP will continue to be an area source of HAP, as defined in 40 CFR 63.2, because HAP emissions will continue to be less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA).

Federal Rule Applicability Determination

Due to the modification at this source, federal rule applicability has been reviewed as follows:

New Source Performance Standards (NSPS):

- (a) The two (2) natural gas-fired Superior boilers, identified as EU06A, are subject to the New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units, 40 CFR 60, Subpart Dc and 326 IAC 12, because each has a maximum input capacity of more than 10 MMBtu/hr. The units subject to this rule includes the following:
 - (1) Two (2) natural gas fired Superior boilers, model year 2020, identified as EU06A, approved in 2020 for construction, with a maximum heat input capacity of 21.0 MMBTU/hr (each), and exhausting to the atmosphere through stack/vent ST05.

The two (2) boilers are subject to the following portions of Subpart Dc.

- (1) 40 CFR 60.40c(a);
- (2) 40 CFR 60.40c(b);
- (3) 40 CFR 60.41c
- (4) 40 CFR 63.48c(a)(1);
- (5) 40 CFR 63.48c(g);
- (6) 40 CFR 63.48c(i); and
- (7) 40 CFR 63.48c(j)

The requirements of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated as 326 IAC 12-1, apply to the natural gas-fired Superior boilers, model year 2020, except as otherwise specified in 40 CFR 60, Subpart Dc.

- (b) There are no other New Source Performance Standards (40 CFR Part 60) and 326 IAC 12 included in the permit for this proposed modification.

National Emission Standards for Hazardous Air Pollutants (NESHAP):

- (a) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR 63, Subpart DDDDD and 326 IAC 20-95 are not included in the permit for the two (2) Superior boilers, model year 2020, identified as EU06A, since the facility is not located at a major source for HAPs.
- (b) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Industrial, Commercial, and Institutional Boilers Area Sources, 40 CFR 63, Subpart JJJJJJ, are not included in the permit for the two (2) Superior boilers, model year 2020, identified as EU06A, since they are gas-fired boilers as defined by 40 CFR 63.11237.
- (c) There are no National Emission Standards for Hazardous Air Pollutants under 40 CFR 63, 326 IAC 14 and 326 IAC 20 included for this proposed modification.

Compliance Assurance Monitoring (CAM):

- (a) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to each pollutant-specific emission unit that meets the following criteria:
 - (1) has a potential to emit before controls equal to or greater than the major source threshold for the regulated pollutant involved;
 - (2) is subject to an emission limitation or standard for that pollutant (or a surrogate thereof); and
 - (3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.
- (b) Pursuant to 40 CFR 64.2(b)(1)(i), emission limitations or standards proposed after November 15, 1990 pursuant to a NSPS or NESHAP under Section 111 or 112 of the Clean Air Act are exempt from the requirements of CAM. Therefore, an evaluation was not conducted for any emission limitations or standards proposed after November 15, 1990 pursuant to a NSPS or NESHAP under Section 111 or 112 of the Clean Air Act.

The proposed Superior boilers and the existing space heaters are not equipped with a control device. Therefore, these units are not subject to CAM.

Based on this evaluation, the requirements of 40 CFR Part 64, CAM, are not applicable to any of the new and modified units as part of this modification.

State Rule Applicability - Entire Source

Due to this modification, state rule applicability has been reviewed as follows:

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))

The provisions of 326 IAC 2-4.1 apply to any owner or operator who constructs or reconstructs a major source of hazardous air pollutants (HAP), as defined in 40 CFR 63.41, after July 27, 1997, unless the major source has been specifically regulated under or exempted from regulation under a NESHAP that was issued pursuant to Section 112(d), 112(h), or 112(j) of the Clean Air Act (CAA) and incorporated under 40 CFR 63. On and after June 29, 1998, 326 IAC 2-4.1 is intended to implement the requirements of Section 112(g)(2)(B) of the Clean Air Act (CAA).

The operation of this source will emit less than ten (10) tons per year for a single HAP and less than twenty-five (25) tons per year for a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

326 IAC 2-6 (Emission Reporting)

This source is subject to the requirements of 326 IAC 2-6 (Emission Reporting), since it is required to have an operating permit under 326 IAC 2-7, Part 70 Permit Program. Pursuant to 326 IAC 2-6-3(a)(2), the Permittee shall submit triennially, by July 1, an emission statement covering the previous calendar year in accordance with the compliance schedule in 326 IAC 2-6-3. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

326 IAC 2-7-6(5) (Annual Compliance Certification)

The U.S. EPA Federal Register 79 FR 54978 notice does not exempt Title V Permittees from the requirements of 40 CFR 70.6(c)(5)(iv) or 326 IAC 2-7-6(5)(D), but the submittal of the Title V annual compliance certification to IDEM satisfies the requirement to submit the Title V annual compliance certifications to EPA. IDEM does not intend to revise any permits since the requirements of 40 CFR 70.6(c)(5)(iv) or 326 IAC 2-7-6(5)(D) still apply, but Permittees can note on their Title V annual compliance certifications that submission to IDEM has satisfied reporting to EPA per Federal Register 79 FR 54978. This only applies to Title V Permittees and Title V compliance certifications.

326 IAC 5-1 (Opacity Limitations)

This source is subject to the opacity limitations specified in 326 IAC 5-1-2(2)

326 IAC 6-4 (Fugitive Dust Emissions Limitations)

Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4.

326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)

This source is not subject to the requirements of 326 IAC 6-5, because the source has potential fugitive particulate emissions of less than twenty-five (25) tons per year.

326 IAC 6.5 (Particulate Matter Limitations Except Lake County)

This source (located in Marion County) is located in one of the counties listed in 326 IAC 6.5, but is not one of the sources specifically listed in 326 IAC 6.5-2 through 326 IAC 6.5-10. The source-wide PTE of PM is 10 tons per year or more. Therefore, this source is subject to the requirements of 326 IAC 6.5-1-2 because the source-wide actual emissions of PM can be 10 tons per year or more.

326 IAC 6.8 (Particulate Matter Limitations for Lake County)

Pursuant to 326 IAC 6.8-1-1(a), this source (located in Marion County) is not subject to the requirements of 326 IAC 6.8 because it is not located in Lake County.

State Rule Applicability - Individual Facilities

Due to this modification, state rule applicability has been reviewed as follows:

Boilers:

326 IAC 6-2-1 (Particulate Emission Limitations for Sources of Indirect Heating)

The two (2) Superior boilers, model year 2020, identified as EU06A, are not subject to the requirements of 326 IAC 6-2-1, since they are regulated under 326 IAC 6.5.

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

Pursuant to 326 IAC 6-3-1.5(2), the two (2) Superior boilers, model year 2020, identified as EU06A, are not subject to the requirements of 326 IAC 6-3, since they each are not a "manufacturing process" as defined by 326 IAC 6-3-1.5 and are regulated under 326 IAC 6.5.

326 IAC 6.5 PM (Limitations Except Lake County)

As discussed in the State Rule Applicability - Entire Source, this source is still subject to the requirements of 326 IAC 6.5.

Pursuant to 326 IAC 6.5-1-2(a), the particulate matter (PM) from the two (2) Superior boilers, model year 2020, identified as EU06A shall not exceed three-hundredths (0.01) grain per dry standard cubic foot (dscf) since they are gaseous fuel-fired steam generators located in Marion County.

326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)

This emission unit is not subject to 326 IAC 7-1.1 because it has a potential to emit (or limited potential to emit) sulfur dioxide (SO₂) of less than 25 tons per year or 10 pounds per hour.

326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)

Even though, the Superior boilers EU06A will be constructed after January 1, 1980, they are not subject to the requirements of 326 IAC 8-1-6 because each has unlimited VOC potential emissions of less than twenty-five (25) tons per year.

326 IAC 9-1 (Carbon Monoxide Emission Limits)

The requirements of 326 IAC 9-1 do not apply to the unit, because this source does not operate a catalyst regeneration petroleum cracking system or a petroleum fluid coker, grey iron cupola, blast furnace, basic oxygen steel furnace, or other ferrous metal smelting equipment.

326 IAC 10-3 (Nitrogen Oxide Reduction Program for Specific Source Categories)

The requirements of 326 IAC 10-3 do not apply to the units, since they are not classified as blast furnace gas-fired boiler, a Portland cement kiln, or a facility specifically listed under 326 IAC 10-3-1(a)(2).

Space Heaters:

326 IAC 6-2-1 (Particulate Emission Limitations for Sources of Indirect Heating)

The two (2) existing space heaters is subject to the requirements of 326 IAC 6-2-1, since they are regulated under 326 IAC 6.5.

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

Pursuant to 326 IAC 6-3-1.5(2), the two (2) existing space heaters are not subject to the requirements of 326 IAC 6-3, since they each are not a "manufacturing process" as defined by 326 IAC 6-3-1.5 and are regulated by under 326 IAC 6.5.

326 IAC 6.5 PM (Limitations Except Lake County)

As discussed in the State Rule Applicability - Entire Source, this source is still subject to the requirements of 326 IAC 6.5.

Pursuant to 326 IAC 6.5-1-2(a), the particulate matter (PM) from the space heaters at the source shall not exceed three-hundredths (0.03) grain per dry standard cubic foot (dscf).

326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)

The emission units are not subject to 326 IAC 326 IAC 7-1.1 because each has a potential to emit (or limited potential to emit) sulfur dioxide (SO₂) of less than 25 tons per year or 10 pounds per hour.

326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)

Even though, the two (2) existing space heaters were constructed after January 1, 1980, they are not subject to the requirements of 326 IAC 8-1-6 because each has unlimited VOC potential emissions of less than twenty-five (25) tons per year.

326 IAC 9-1 (Carbon Monoxide Emission Limits)

The requirements of 326 IAC 9-1 do not apply to the two (2) existing space heaters, because this source does not operate a catalyst regeneration petroleum cracking system or a petroleum fluid coker, grey iron cupola, blast furnace, basic oxygen steel furnace, or other ferrous metal smelting equipment.

326 IAC 10-3 (Nitrogen Oxide Reduction Program for Specific Source Categories)

The requirements of 326 IAC 10-3 do not apply to the two (2) existing space heaters, since these units are not classified as blast furnace gas-fired boiler, a Portland cement kiln, or a facility specifically listed under 326 IAC 10-3-1(a)(2).

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-7 are required to assure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions; however, these provisions do not always fulfill the requirement for a continuous demonstration. When this occurs, IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, Compliance Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

If the Compliance Determination Requirements are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

(a) The Compliance Determination Requirements applicable to this modification are as follows:

Testing Requirements:

(1) IDEM OAQ has determined that testing of the two (2) Superior boils, model year 2020, identified as EU06A, is not required at this time to determine compliance with the PM emission limits. IDEM has the authority to require testing at a later time if necessary to demonstrate compliance with any applicable requirement.

(b) The Compliance Monitoring Requirements applicable to this proposed modification are as follows:

There are no new or modified compliance requirements included with this modification.

Proposed Changes

As part of this permit approval, the permit may contain new or different permit conditions and some conditions from previously issued permits/approvals may have been corrected, changed, or removed. These corrections, changes, and removals may include Title I changes.

The following changes listed below are due to the proposed modification. Deleted language appears as ~~strike through~~ text and new language appears as **bold** text (these changes may include Title I changes):

(1) Condition A.2 of the permit has been modified to incorporate the new boiler units.

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)][326 IAC 2-7-5(14)]

This stationary source consists of the following emission units and pollution control devices:

...

(b) Two (2) ~~31.385 million Btu per hour~~ natural gas-fired Johnston **Superior** boilers, ~~constructed in 1990,~~ **model year 2020**, identified as EU06A, **approved in 2020 for construction, with a maximum heat input capacity of 21.0 MMBTU/hr (each), and** exhausting to the atmosphere through stack/vent ST05;

The boilers are affected units under the provisions of 40 CFR 60, Subpart Dc.

...

(2) Condition A.3 of the permit has been modified to incorporate the existing space heaters.

A.3 Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-7-4(c)][326 IAC 2-7-5(14)]

This stationary source also includes the following insignificant activities:

...

(q) **Two (2) natural gas-fired space heaters, with a maximum heat input capacity of 4.718 MMBTU/hr, each, located at the East Hangar.**

...

(3) Condition D.1 of the permit has been modified to incorporate the new boiler units and two (2) existing space heaters.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

...

(b) Two (2) ~~31.385 million Btu per hour~~ natural gas fired Johnston **Superior** boilers, ~~constructed in 1990,~~ **model year 2020**, identified as EU06A, **approved in 2020 for construction, with a maximum heat input capacity of 21.0 MMBTU/hr (each), and** exhausting to the atmosphere through stack/vent ST05;

The boilers are affected units under the provisions of 40 CFR 60, Subpart Dc.

...

Insignificant Activities:

...

- (q) **Two (2) natural gas-fired space heaters, with a maximum heat input capacity of 4.718 MMBTU/hr, each, located at the East Hangar.**

...

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

...

- (4) Condition D.1.3 of the permit has been modified to incorporate the new boiler units and two (2) existing space heaters.

D.1.3 Particulate Matter [326 IAC 6.5-1-2]

- (a) Pursuant to 326 IAC 6.5-1-2(b)(3), particulate matter emissions from the two (2) ~~Johnston boilers (EU06)~~ **superior boilers, model year 2020, identified as EU06A**, two (2) Cleaver Brooks boilers and three (3) Lochnivar boilers shall not exceed one-hundredth (0.01) grain per dry standard cubic foot (dscf).
- (b) Pursuant to 326 IAC 6.5-1-2(a), the particulate matter from each of the diesel/jet fuel-fired generators (EU01 through EU05, EU11, EU15, and EU16), the five (5) fire pump engines, the sanding booth, and ~~the thirty-one (31)~~ **all** space heaters shall not exceed three-hundredths (0.03) grain per dry standard cubic foot (gr/dscf).

...

- (5) Condition E.1 of the permit has been modified to incorporate the new boiler units.

SECTION E.1

NSPS

Emissions Unit Description:

- (b) Two (2) ~~31.385 million Btu per hour~~ natural gas fired Johnston **Superior** boilers, ~~constructed in 1990,~~ **model year 2020**, identified as EU06A, **approved in 2020 for construction, with a maximum heat input capacity of 21.0 MMBTU/hr (each), and** exhausting to the atmosphere through stack/vent ST05;

The boilers are affected units under the provisions of 40 CFR 60, Subpart Dc.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

...

Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on August 28, 2020, and October 3, 2020.

The construction of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Minor Source Modification No. 097-43212-00257. The operation of this proposed modification shall be subject to the conditions of the attached proposed Minor Permit Modification No. 097-43308-00257.

The staff recommends to the Commissioner that the Part 70 Minor Source Modification be approved.

IDEM Contact

- (a) If you have any questions regarding this permit, please contact Dylan Finley, Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251, or by telephone at (317) 232-1139 or (800) 451-6027, and ask for Dylan Finley or (317) 232-1139.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Air Permits page on the Internet at: <http://www.in.gov/idem/airquality/2356.htm>; and the Citizens' Guide to IDEM on the Internet at: <http://www.in.gov/idem/6900.htm>.

Appendix A: Emission Calculations
PTE Summary

Company Name: Federal Express Corporation
 Source Address: 6648 South Perimeter Road, Indianapolis, IN 46241
 MSM Permit Number: 097-43212-00266
 MPM Permit Number: 097-43308-00257
 Reviewer: Dylan Finley

Uncontrolled Potential to Emit (tons/yr)								
Emissions Unit	PM	PM10	PM2.5*	SO2	NOx	VOC	CO	Total HAPs
Generators/Boilers								
EU01 (8 generators)	63.60	36.44	36.44	367.52	2180.61	64.06	499.72	1.00
EU11 (diesel generator)	10.07	5.77	5.77	58.20	345.32	10.14	79.14	0.16
Emergency Generators								
EU02-EU05	0.59	0.34	0.34	0.01	20.35	0.60	4.66	9.3E-03
EU15 and EU16	0.26	0.26	0.26	0.24	3.62	0.29	0.78	3.2E-03
EU06A (2 Superior boilers)	0.34	1.37	1.37	0.11	18.04	0.99	15.15	0.34
Storage Tanks								
EU08 (2 Jet A fuel storage tanks)	-	-	-	-	-	0.42	-	0.06
EU09 (underground gasoline tank)	-	-	-	-	-	1.34	-	0.11
EU10 (diesel/jet fuel storage tank)	-	-	-	-	-	0.01	-	1.1E-03
EU12 Jet A fuel storage tank	-	-	-	-	-	0.22	-	1.8E-03
Fuel Dispensing Operations	-	-	-	-	-	16.64	-	3.19
Insignificant Activities								
IA: 2 Cleaver Brooks boilers	0.06	0.23	0.23	0.02	3.01	0.17	2.52	0.06
IA: 5 fire pump engines	0.01	0.01	0.01	0.01	0.17	0.01	0.04	1.5E-04
IA: 3 Lochinvar natural gas boilers	4.3E-03	0.02	0.02	1.4E-03	0.23	0.01	0.19	4.2E-03
Sanding Booth	17.96	12.57	12.57	-	-	-	-	-
IA: degreasing	-	-	-	-	-	0.53	-	-
IA: 3 paint booths	1.59	1.59	1.59	-	-	2.22	-	1.28
IA: 31 natural gas heaters	0.01	0.05	0.05	3.66E-03	0.61	0.03	0.51	0.01
IA: 2 underground diesel tanks	-	-	-	-	-	3.0E-04	-	2.4E-05
IA: 2 above ground used oil tanks	-	-	-	-	-	2.7E-04	-	3.9E-05
IA: 2 Space Heaters (4,718 MMBtu/hr, each)	0.08	0.31	0.31	0.02	4.05	0.22	3.40	0.08
Total	94.58	58.65	58.65	426.12	2571.95	97.70	602.72	6.23
Fugitive Emissions								
Paved Roads	3.23	0.65	0.16	-	-	-	-	-
Total Fugitives	3.23	0.65	0.16	-	-	-	-	-

* PM2.5 listed is direct PM2.5

Potential to Emit after Issuance (tons/yr)								
Emission Unit	PM	PM10	PM2.5*	SO2	NOx	VOC	CO	Total HAP
Generators/Boilers								
EU01 (8 generators)**	5.08	2.91	2.91	29.37	174.25	5.12	39.93	0.08
EU11 diesel generator**	0.57	0.33	0.33	3.32	19.71	0.58	4.52	0.01
Emergency Generators								
EU02-EU05	0.59	0.34	0.34	0.01	20.35	0.60	4.66	9.3E-03
EU15 and EU16	0.26	0.26	0.26	0.24	3.62	0.29	0.78	0.00
EU06A (2 Superior boilers)	0.34	1.37	1.37	0.11	18.04	0.99	15.15	0.34
Storage Tanks								
EU08 (2 Jet A fuel storage tanks)	-	-	-	-	-	0.42	-	0.06
EU09 (underground gasoline tank)	-	-	-	-	-	1.34	-	0.11
EU10 (diesel/jet fuel storage tank)	-	-	-	-	-	0.01	-	1.1E-03
EU12 Jet A fuel storage tank	-	-	-	-	-	0.22	-	1.8E-03
Fuel Dispensing Operations	-	-	-	-	-	16.64	-	3.19
Insignificant Activities								
IA: 2 Cleaver Brooks boilers	0.06	0.23	0.23	0.02	3.01	0.17	2.52	0.06
IA: 5 fire pump engines	0.01	0.01	0.01	0.01	0.17	0.01	0.04	1.5E-04
IA: 3 Lochinvar natural gas boilers	4.3E-03	0.02	0.02	1.4E-03	0.23	0.01	0.19	4.2E-03
Sanding booth	17.96	12.57	12.57	-	-	-	-	-
IA: degreasing	-	-	-	-	-	0.53	-	-
IA: 5 Binks paint booths	1.59	1.59	1.59	-	-	2.22	-	1.28
IA: 31 natural gas heaters	0.01	0.05	0.05	3.7E-03	0.61	0.03	0.51	0.01
IA: 2 underground diesel tanks	-	-	-	-	-	3.00E-04	-	2.4E-05
IA: 2 above ground used oil tanks	-	-	-	-	-	2.65E-04	-	3.9E-05
IA: 2 Space Heaters (4,718 MMBtu/hr, each)	0.08	0.31	0.31	0.02	4.05	0.22	3.40	0.08
Total	26.56	19.98	19.98	33.11	244.03	29.42	71.71	5.24
Fugitive Emissions								
Paved Roads	3.23	0.65	0.16	-	-	-	-	-
Total Fugitives	3.23	0.65	0.16	-	-	-	-	-

* PM2.5 listed is direct PM2.5

**In order to render the requirements of 326 IAC 2-2 (PSD) not applicable, the operating hours of the eight (8) diesel fired generators (EU01) shall not exceed 700 hours per twelve (12) consecutive month period and the operating hours of diesel generator EU-11 shall not exceed 500 hours per twelve (12) month consecutive period.

**Appendix A: Emission Calculations
Summary of Potential Emissions**

Company Name: Federal Express Corporation
Source Address: 6648 South Perimeter Road, Indianapolis, IN 46241
MSM Permit Number: 097-43212-00257
MPM Permit Number: 097-43308-00257
Reviewer: Dylan Finley

Unlimited Potential to Emit									
Emission Unit	PM	PM10	PM2.5*	SO2	NOx	VOC	CO	Single HAPs (Hexane)	Total HAPs
2 Replacement Superior Boilers EU06A	0.34	1.37	1.37	0.11	18.04	0.99	15.15	0.32	0.34
2 Space Heaters (4.718 MMBTu/hr each)	0.08	0.31	0.31	0.02	4.05	0.22	3.40	0.07	0.08
Total PTE of the Modification	0.42	1.68	1.68	0.13	22.09	1.21	18.55	0.40	0.42

**Appendix A: Emission Calculations
 Reciprocating Internal Combustion Engines - Diesel Fuel
 Output Rating (<=600 HP)
 Maximum Input Rate (<=4.2 MMBtu/hr)**

**Company Name: Federal Express Corporation
 Source Address: 6648 South Perimeter Road, Indianapolis, IN 46241
 MSM Permit Number: 097-43212-00257
 MPM Permit Number: 097-43308-00257
 Reviewer: Dylan Finley**

Emissions calculated based on output rating (hp)

Unit ID	Hp
Emergency gen.EU15	275
Emergency gen.EU16	192
Total	467

Output Horsepower Rating (hp)	467.0
Maximum Hours Operated per Year	500
Potential Throughput (hp-hr/yr)	233,500

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/hp-hr	0.0022	0.0022	0.0022	0.00205	0.0310	0.0025	0.00668
Potential Emission in tons/yr	0.26	0.26	0.26	0.24	3.62	0.29	0.78

*PM and PM2.5 emission factors are assumed to be equivalent to PM10 emission factors. No information was given regarding which method was used to determine the factor or the fraction of PM10 which is condensable.

Hazardous Air Pollutants (HAPs)

	Pollutant							Total PAH HAPs***
	Benzene	Toluene	Xylene	1,3-Butadiene	Formaldehyde	Acetaldehyde	Acrolein	
Emission Factor in lb/hp-hr****	6.53E-06	2.86E-06	2.00E-06	2.74E-07	8.26E-06	5.37E-06	6.48E-07	1.18E-06
Potential Emission in tons/yr	7.62E-04	3.34E-04	2.33E-04	3.20E-05	9.64E-04	6.27E-04	7.56E-05	1.37E-04

***PAH = Polyaromatic Hydrocarbon (PAHs are considered HAPs, since they are considered Polycyclic Organic Matter)

****Emission factors in lb/hp-hr were calculated using emission factors in lb/MMBtu and a brake specific fuel consumption of 7,000 Btu / hp-hr (AP-42 Table 3.3-1).

Potential Emission of Total HAPs (tons/yr)	3.17E-03
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Methodology

Emission Factors are from AP 42 (Supplement B 10/96) Tables 3.3-1 and 3.3-2.

Potential Throughput (hp-hr/yr) = [Output Horsepower Rating (hp)] * [Maximum Hours Operated per Year]

Potential Emission (tons/yr) = [Potential Throughput (hp-hr/yr)] * [Emission Factor (lb/hp-hr)] / [2,000 lb/ton]

**Appendix A: Emission Calculations
Large Reciprocating Internal Combustion Engines - Diesel Fuel
Output Rating (>600 HP)
Maximum Input Rate (>4.2 MMBtu/hr)
EU01**

**Company Name: Federal Express Corporation
Source Address: 6648 South Perimeter Road, Indianapolis, IN 46241
MSM Permit Number: 097-43212-00257
MPM Permit Number: 097-43308-00257
Reviewer: Dylan Finley**

Output Horsepower Rating (hp)	20744.0	(eight (8) large diesel/jet-fuel fired emer. generators, Hub, with a maximum combined capacity of 20,744 hp)
Maximum Hours Operated per Year	8760	
Potential Throughput (hp-hr/yr)	181,717,440	
Sulfur Content (S) of Fuel (% by weight)	0.500	

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/hp-hr	7.00E-04	4.01E-04	4.01E-04	4.05E-03 (.00809S)	2.40E-02 **see below	7.05E-04	5.50E-03
Potential Emission in tons/yr	63.60	36.44	36.44	367.52	2180.61	64.06	499.72

*PM10 emission factor in lb/hp-hr was calculated using the emission factor in lb/MMBtu and a brake specific fuel consumption of 7,000 Btu / hp-hr (AP-42 Table 3.3-1).

**NOx emission factor: uncontrolled = 0.024 lb/hp-hr, controlled by ignition timing retard = 0.013 lb/hp-hr

Hazardous Air Pollutants (HAPs)

	Pollutant						
	Benzene	Toluene	Xylene	Formaldehyde	Acetaldehyde	Acrolein	Total PAH HAPs***
Emission Factor in lb/hp-hr****	5.43E-06	1.97E-06	1.35E-06	5.52E-07	1.76E-07	5.52E-08	1.48E-06
Potential Emission in tons/yr	4.94E-01	1.79E-01	1.23E-01	5.02E-02	1.60E-02	5.01E-03	1.35E-01

***PAH = Polyaromatic Hydrocarbon (PAHs are considered HAPs, since they are considered Polycyclic Organic Matter)

****Emission factors in lb/hp-hr were calculated using emission factors in lb/MMBtu and a brake specific fuel consumption of 7,000 Btu / hp-hr (AP-42 Table 3.3-1).

Potential Emission of Total HAPs (tons/yr)	1.00
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**Appendix A: Emission Calculations
Large Reciprocating Internal Combustion Engines - Diesel Fuel
Output Rating (>600 HP)
Maximum Input Rate (>4.2 MMBtu/hr)
EU01 (Limited)**

Company Name: Federal Express Corporation
Source Address: 6648 South Perimeter Road, Indianapolis, IN 46241
MSM Permit Number: 097-43212-00257
MPM Permit Number: 097-43308-00257
Reviewer: Dylan Finley

Output Horsepower Rating (hp)	20744.0	(eight (8) large diesel/jet fuel fired generators, Hub, with a maximum combined capacity of 20,744 hp)
Limited Hours Operated per Year	700	(each generator)
Limited Throughput (hp-hr/yr)	14,520,800	
Sulfur Content (S) of Fuel (% by weight)	0.500	

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/hp-hr	7.00E-04	4.01E-04	4.01E-04	4.05E-03 (.00809S)	2.40E-02 **see below	7.05E-04	5.50E-03
Limited Emission in tons/yr	5.08	2.91	2.91	29.37	174.25	5.12	39.93

*PM10 emission factor in lb/hp-hr was calculated using the emission factor in lb/MMBtu and a brake specific fuel consumption of 7,000 Btu / hp-hr (AP-42 Table 3.3-1).

**NOx emission factor: uncontrolled = 0.024 lb/hp-hr, controlled by ignition timing retard = 0.013 lb/hp-hr

Hazardous Air Pollutants (HAPs)

	Pollutant						
	Benzene	Toluene	Xylene	Formaldehyde	Acetaldehyde	Acrolein	Total PAH HAPs***
Emission Factor in lb/hp-hr****	5.43E-06	1.97E-06	1.35E-06	5.52E-07	1.76E-07	5.52E-08	1.48E-06
Limited Emission in tons/yr	3.94E-02	1.43E-02	9.81E-03	4.01E-03	1.28E-03	4.00E-04	1.08E-02

***PAH = Polyaromatic Hydrocarbon (PAHs are considered HAPs, since they are considered Polycyclic Organic Matter)

****Emission factors in lb/hp-hr were calculated using emission factors in lb/MMBtu and a brake specific fuel consumption of 7,000 Btu / hp-hr (AP-42 Table 3.3-1).

Limited Emission of Total HAPs (tons/yr)	0.08
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**Appendix A: Emission Calculations
 Reciprocating Internal Combustion Engines - Diesel Fuel
 Output Rating (>600 HP)
 Maximum Input Rate (>4.2 MMBtu/hr)
 Emergencu generators EU02 - EU05**

Company Name: Federal Express Corporation
Source Address: 6648 South Perimeter Road, Indianapolis, IN 46241
MSM Permit Number: 097-43212-00257
MPM Permit Number: 097-43308-00257
Reviewer: Dylan Finley

Four (4) diesel/jet fuel-fired emergency generators, identified as EU02 - EU05

Unit ID	Horsepower Rating (hp)
EU02	896
EU03	896
EU04	749
EU05	851

Total Output Horsepower Rating (hp)	3392
Maximum Hours Operated per Year	500
Potential Throughput (hp-hr/yr)	1,696,000
Sulfur Content (S) of Fuel (% by weight)	0.0015

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/hp-hr	7.00E-04	4.01E-04	4.01E-04	1.21E-05 (.00809S)	0.024 **see below	7.05E-04	5.50E-03
Potential Emission in tons/yr	0.59	0.34	0.34	0.01	20.35	0.60	4.66

*PM10 emission factor in lb/hp-hr was calculated using the emission factor in lb/MMBtu and a brake specific fuel consumption of 7,000 Btu / hp-hr (AP-42 Table 3.3-1).

**NOx emission factor: uncontrolled = 0.024 lb/hp-hr, controlled by ignition timing retard = 0.013 lb/hp-hr

Hazardous Air Pollutants (HAPs)

	Pollutant						
	Benzene	Toluene	Xylene	Formaldehyde	Acetaldehyde	Acrolein	Total PAH HAPs***
Emission Factor in lb/hp-hr****	5.43E-06	1.97E-06	1.35E-06	5.52E-07	1.76E-07	5.52E-08	1.48E-06
Potential Emission in tons/yr	4.61E-03	1.67E-03	1.15E-03	4.68E-04	1.50E-04	4.68E-05	1.26E-03

***PAH = Polyaromatic Hydrocarbon (PAHs are considered HAPs, since they are considered Polycyclic Organic Matter)

****Emission factors in lb/hp-hr were calculated using emission factors in lb/MMBtu and a brake specific fuel consumption of 7,000 Btu / hp-hr (AP-42 Table 3.3-1).

Methodology

Emission Factors are from AP 42 (Supplement B 10/96) Tables 3.4-1 , 3.4-2, 3.4-3, and 3.4-4.

Potential Throughput (hp-hr/yr) = [Output Horsepower Rating (hp)] * [Maximum Hours Operated per Year]

Potential Emission (tons/yr) = [Potential Throughput (hp-hr/yr)] * [Emission Factor (lb/hp-hr)] / [2,000 lb/ton]

Highest Single HAP (Benzene)	4.61E-03
Potential Emission of Total HAPs (tons/yr)	9.34E-03

Appendix A: Emission Calculations
Large Reciprocating Internal Combustion Engines - Diesel Fuel
Output Rating (>600 HP)
Maximum Input Rate (>4.2 MMBtu/hr)
EU11 (Limited)

Company Name: Federal Express Corporation
Source Address: 6648 South Perimeter Road, Indianapolis, IN 46241
MSM Permit Number: 097-43212-00257
MPM Permit Number: 097-43308-00257
Reviewer: Dylan Finley

Output Horsepower Rating (hp)	3285.0
Limited Hours Operated per Year	500
Limited Throughput (hp-hr/yr)	1,642,500
Sulfur Content (S) of Fuel (% by weight)	0.500

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/hp-hr	7.00E-04	4.01E-04	4.01E-04	4.05E-03 (.00809S)	2.40E-02 **see below	7.05E-04	5.50E-03
Limited Emission in tons/yr	0.57	0.33	0.33	3.32	19.71	0.58	4.52

*PM10 emission factor in lb/hp-hr was calculated using the emission factor in lb/MMBtu and a brake specific fuel consumption of 7,000 Btu / hp-hr (AP-42 Table 3.3-1).

**NOx emission factor: uncontrolled = 0.024 lb/hp-hr, controlled by ignition timing retard = 0.013 lb/hp-hr

Hazardous Air Pollutants (HAPs)

	Pollutant						
	Benzene	Toluene	Xylene	Formaldehyde	Acetaldehyde	Acrolein	Total PAH HAPs***
Emission Factor in lb/hp-hr****	5.43E-06	1.97E-06	1.35E-06	5.52E-07	1.76E-07	5.52E-08	1.48E-06
Limited Emission in tons/yr	4.46E-03	1.62E-03	1.11E-03	4.54E-04	1.45E-04	4.53E-05	1.22E-03

***PAH = Polyaromatic Hydrocarbon (PAHs are considered HAPs, since they are considered Polycyclic Organic Matter)

****Emission factors in lb/hp-hr were calculated using emission factors in lb/MMBtu and a brake specific fuel consumption of 7,000 Btu / hp-hr (AP-42 Table 3.3-1).

Methodology

Emission Factors are from AP 42 (Supplement B 10/96) Tables 3.4-1 , 3.4-2, 3.4-3, and 3.4-4.

Limited Throughput (hp-hr/yr) = [Output Horsepower Rating (hp)] * [Limited Hours Operated per Year]

Limited Emission (tons/yr) = [Limited Throughput (hp-hr/yr)] * [Emission Factor (lb/hp-hr)] / [2,000 lb/ton]

Limited Emission of Total HAPs (tons/yr)	9.05E-03
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Appendix A: Emission Calculations
Large Reciprocating Internal Combustion Engines - Diesel Fuel
Output Rating (>600 HP)
Maximum Input Rate (>4.2 MMBtu/hr)
EU011

Page 6 of 25 TSD App A

Company Name: Federal Express Corporation
Source Address: 6648 South Perimeter Road, Indianapolis, IN 46241
MSM Permit Number: 097-43212-00257
MPM Permit Number: 097-43308-00257
Reviewer: Dylan Finley

One (1) diesel/jet fuel-fired emer. generator, constructed in 2008, with a maximum capacity of 2250 kW, identified as EU11

Output Horsepower Rating (hp)	3285.0
Maximum Hours Operated per Year	8760
Potential Throughput (hp-hr/yr)	28,776,600
Sulfur Content (S) of Fuel (% by weight)	0.500

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/hp-hr	7.00E-04	4.01E-04	4.01E-04	4.05E-03 (.00809S)	2.40E-02 **see below	7.05E-04	5.50E-03
Potential Emission in tons/yr	10.07	5.77	5.77	58.20	345.32	10.14	79.14

*PM10 emission factor in lb/hp-hr was calculated using the emission factor in lb/MMBtu and a brake specific fuel consumption of 7,000 Btu / hp-hr (AP-42 Table 3.3-1).

**NOx emission factor: uncontrolled = 0.024 lb/hp-hr, controlled by ignition timing retard = 0.013 lb/hp-hr

Hazardous Air Pollutants (HAPs)

	Pollutant						
	Benzene	Toluene	Xylene	Formaldehyde	Acetaldehyde	Acrolein	Total PAH HAPs***
Emission Factor in lb/hp-hr****	5.43E-06	1.97E-06	1.35E-06	5.52E-07	1.76E-07	5.52E-08	1.48E-06
Potential Emission in tons/yr	7.82E-02	2.83E-02	1.94E-02	7.95E-03	2.54E-03	7.94E-04	2.14E-02

***PAH = Polyaromatic Hydrocarbon (PAHs are considered HAPs, since they are considered Polycyclic Organic Matter)

****Emission factors in lb/hp-hr were calculated using emission factors in lb/MMBtu and a brake specific fuel consumption of 7,000 Btu / hp-hr (AP-42 Table 3.3-1).

Methodology

Emission Factors are from AP 42 (Supplement B 10/96) Tables 3.4-1 , 3.4-2, 3.4-3, and 3.4-4.

Potential Throughput (hp-hr/yr) = [Output Horsepower Rating (hp)] * [Maximum Hours Operated per Year]

Potential Emission (tons/yr) = [Potential Throughput (hp-hr/yr)] * [Emission Factor (lb/hp-hr)] / [2,000 lb/ton]

Potential Emission of Total HAPs (tons/yr)	1.59E-01
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**Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
EU06A**

Company Name: Federal Express Corporation
Source Address: 6648 South Perimeter Road, Indianapolis, IN 46241
MSM Permit Number: 097-43212-00257
MPM Permit Number: 097-43308-00257
Reviewer: Dylan Finley

Two (2) 21 million Btu per hour natural gas fired Superior boilers

Heat Input Capacity MMBtu/hr	HHV mmBtu mmscf	Potential Throughput MMCF/yr
42.0	1020	360.7

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
	1.9	7.6	7.6	0.6	100	5.5	84
Potential Emission in tons/yr	0.34	1.37	1.37	0.11	**see below	0.99	15.15

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

PM2.5 emission factor is filterable and condensable PM2.5 combined.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

HAPS Calculations

HAPs - Organics						
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	Total - Organics
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	
Potential Emission in tons/yr	3.79E-04	2.16E-04	1.35E-02	0.32	6.13E-04	0.34

HAPs - Metals						
	Lead	Cadmium	Chromium	Manganese	Nickel	Total - Metals
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	
Potential Emission in tons/yr	9.02E-05	1.98E-04	2.52E-04	6.85E-05	3.79E-04	9.88E-04
					Total HAPs	0.34
					Worst HAP	0.32

Methodology is the same as above.

The five highest organic and metal HAPs emission factors are provided above.

Additional HAPs emission factors are available in AP-42, Chapter 1.4.

**Appendix A: Emission Calculations
Tank Storage**

Company Name: Federal Express Corporation
Source Address: 6648 South Perimeter Road, Indianapolis, IN 46241
MSM Permit Number: 097-43212-00257
MPM Permit Number: 097-43308-00257
Reviewer: Dylan Finley

Jet Storage Tank 1
EU08

TANKS 4.0
Emissions Report - Summary Format

Tank Identification

User Identification: Jet Fuel - Storage Tank 1
 Type of Tank: Vertical - Fixed Roof
 Description: 476,000 gallon tank

Tank Dimensions

Shell Height (ft): 40.0
 Diameter (ft): 45.0
 Liquid Height (ft): 40.0
 Average Liquid Height (ft): 30.0
 Volume (gal): 475,891.66
 Turnovers: 52.53
 Net Throughput (gal/yr): 25,000,000.0
 Heated tank (y/n?): No

Paint Characteristics

Shell Color/Shade: White/White
 Shell Condition: Good
 Roof Color/Shade: White/White
 Roof Condition: Good

Roof Characteristics

Type: Cone
 Height (ft): 5.0
 Slope (ft/ft)(Cone Roof): 0.22

Breather Vent Settings

Vacuum Settings (psig): -0.03
 Pressure Settings (psig): 0.03

Liquid Contents of Storage Tank

Component/Mixture: Jet Kerosene

Daily Liquid Surface Temp (F)

Avg.: 54.01
 Min.: 48.91
 Max.: 59.11
 Liquid Bulk Temp (F): 52.28

Vapor Pressure (psia):

Avg.: 0.0067
 Min.: 0.0057
 Max.: 0.0080

Vapor Molecular Wt.:

Molecular Wt.: 130.0
 162.0

Components	Losses (lbs)			VOC Emissions (lbs/yr)	VOC Emissions (tons/yr)
	Working Loss	Breathing Loss			
Jet Kerosene	384.6	38.24		422.84	0.21

Hazardous Air Pollutants (HAPs)

	Ethylbenzene	Benzene	Hexane	Toluene	Xylene	Total HAPs
Weight % HAP	2.00%	0.69%	1.42%	6.42%	4.06%	14.59%
PTE of HAPs (tons/year)	0.004	0.001	0.003	0.014	0.009	0.031

Methodology

Emission calculations based on EPA program "TANKS" Version 4.09b

**Appendix A: Emission Calculations
Tank Storage**

Company Name: Federal Express Corporation
Source Address: 6648 South Perimeter Road, Indianapolis, IN 46241
MSM Permit Number: 097-43212-00257
MPM Permit Number: 097-43308-00257
Reviewer: Dylan Finley

Jet Storage Tank 2
EU08

TANKS 4.0

Emissions Report - Summary Format

Tank Identification

User Identification: Jet Fuel - Storage Tank 2
Type of Tank: Vertical - Fixed Roof
Description: 476,000 gallon tank

Tank Dimensions

Shell Height (ft): 40.0
Diameter (ft): 45.0
Liquid Height (ft): 40.0
Average Liquid Height (ft): 30.0
Volume (gal): 475,891.66
Turnovers: 52.53
Net Throughput (gal/yr): 25,000,000.0
Heated tank (y/n?): No

Paint Characteristics

Shell Color/Shade: White/White
Shell Condition: Good
Roof Color/Shade: White/White
Roof Condition: Good

Roof Characteristics

Type: Cone
Height (ft): 5.0
Slope (ft/ft)(Cone Roof): 0.22

Breather Vent Settings

Vacuum Settings (psig): -0.03
Pressure Settings (psig): 0.03

Liquid Contents of Storage Tank

Component/Mixture: Jet Kerosene

Daily Liquid Surface Temp (F)

Avg.: 54.01
Min.: 48.91
Max.: 59.11
Liquid Bulk Temp (F): 52.28

Vapor Pressure (psia):

Avg.: 0.0067
Min.: 0.0057
Max.: 0.0080

Vapor Molecular Wt.:

Molecular Wt.: 130.0
162.0

Components	Losses (lbs)			
	Working Loss	Breathing Loss	VOC Emissions (lbs/yr)	VOC Emissions (tons/yr)
Jet Kerosene	384.6	38.24	422.84	0.21

Hazardous Air Pollutants (HAPs)

	Ethylbenzene	Benzene	Hexane	Toluene	Xylene	Total HAPs
Weight % HAP	2.00%	0.69%	1.42%	6.42%	4.06%	14.59%
PTE of HAPs (tons/year)	0.004	0.001	0.003	0.014	0.009	0.031

Methodology

Emission calculations based on EPA program "TANKS" Version 4.09b

**Appendix A: Emission Calculations
Tank Storage**

Company Name: Federal Express Corporation
Source Address: 6648 South Perimeter Road, Indianapolis, IN 46241
MSM Permit Number: 097-43212-00257
MPM Permit Number: 097-43308-00257
Reviewer: Dylan Finley

EU09
Underground
Gasoline Storage Tank

TANKS 4.0

Emissions Report - Summary Format

Tank Identification

User Identification: Gasoline Storage Tank EU09
 Type of Tank: Horizontal Tank
 Description: 10,000 gallon tank

Tank Dimensions

Shell Length (ft): 17.0
 Diameter (ft): 10.0
 Volume (gal): 10000.0
 Turnovers: 78.0
 Net Throughput (gal/yr): 780000.0
 Heated tank (y/n?): No

Paint Characteristics

Shell Color/Shade: White/White
 Shell Condition: Good

Breather Vent Settings

Vacuum Settings (psig): 0.0
 Pressure Settings (psig): 0.0

Liquid Contents of Storage Tank

Component/Mixture: Gasoline (RV9)

Daily Liquid Surface Temp (F)

Avg.: 51.7
 Min.: 51.7
 Max.: 51.7
 Liquid Bulk Temp (F): 51.26

Vapor Pressure (psia):

Avg.: 3.9057
 Min.: 3.9057
 Max.: 3.9057

Vapor Molecular Wt.:

67.0

Molecular Wt.:

92.0

Components	Losses (lbs)		Total Emissions
	Working Loss	Breathing Loss	
Gasoline	2679.13	NA	2679.13
			1.34 (tons)

Hazardous Air Pollutants (HAPs)

	MTBE	Benzene	Hexane	Toluene	Xylene	Total HAPs
Weight % HAP	7.19%	0.39%	0.35%	0.42%	0.11%	8.46%
PTE of HAPs (tons/year)	0.10	5.2E-03	4.7E-03	5.6E-03	1.5E-03	0.113

Methodology

Emission calculations based on EPA program "TANKS" Version 4.09b

**Appendix A: Emission Calculations
Tank Storage**

Company Name: Federal Express Corporation
Source Address: 6648 South Perimeter Road, Indianapolis, IN 46241
MSM Permit Number: 097-43212-00257
MPM Permit Number: 097-43308-00257
Reviewer: Dylan Finley

EU10
20,000 gallon above ground
Diesel/Jet Fuel Storage Tank

TANKS 4.0

Emissions Report - Summary Format

Tank Identification

User Identification: Diesel/Jet Fuel Storage Tank
 Type of Tank: Vertical
 Description: 20,000 gallon tank

Tank Dimensions

Shell Height (ft): 17.0
 Diameter (ft): 14.0
 Liquid Height (ft): 17.0
 Average Liquid Height (ft): 15.0
 Volume (gal): 20000.0
 Turnovers: 33.6
 Net Throughput (gall/yr): 672000.0
 Heated tank (y/n?): No

Paint Characteristics

Shell Color/Shade: White/White
 Shell Condition: Good
 Roof Color/Shade: White/White
 Roof Condition: Good

Roof Characteristics

Type: Cone
 Height (ft): 17.0
 Slope (ft/ft) (Cone Roof): 0.0

Breather Vent Settings

Vacuum Settings (psig): -0.03
 Pressure Settings (psig): 0.0

Liquid Contents of Storage Tank

Component/Mixture: Diesel/Jet Fuel

Daily Liquid Surface Temp (F)

Avg.: 51.7
 Min.: 51.7
 Max.: 51.7
 Liquid Bulk Temp (F): 51.26

Vapor Pressure (psia):

Avg.: 0.0062
 Min.: 0.0031
 Max.: 0.0180

Vapor Molecular Wt.:

130.0
 188.0

Components	Losses (lbs)		
	Working Loss	Breathing Loss	Total Emissions
Diesel Fuel	5.31	0.98	6.69
Jet Kerosene	7.76	1.38	9.71
			15.43
			0.01 (tons)

HAPs	% of Total	tons/yr
Hexane (-n)	1.42%	1.10E-04
Benzene	0.69%	5.32E-05
Toluene	6.42%	4.95E-04
Ethylbenzene	2.00%	1.54E-04
Xylene (-m)	4.06%	3.13E-04
Total HAP		1.13E-03

Methodology

Emission calculations based on EPA program "TANKS" Version 4.09b

**Appendix A: Emission Calculations
Tank Storage**

Company Name: Federal Express Corporation
Source Address: 6648 South Perimeter Road, Indianapolis, IN 46241
MSM Permit Number: 097-43212-00257
MPM Permit Number: 097-43308-00257
Reviewer: Dylan Finley

EU12
Jet A fuel storage Storage Tank
maximum capacity 750,000 gallons
TANKS 4.0d
Emissions Report - Summary Format

Components	Losses					Total Emissions (lb)	Total Emissions (tons/yr)
	Rim Seal Loss	Withdrawal Loss	Deck Fitting Loss	Deck Seam Loss			
VOC	1.53	434.96	5.17	0.00		441.66	0.22
Hexane (-n)	0.02	0.02	0.08	0.00		0.12	6.00E-05
Benzene	0.01	0.02	0.04	0.00		0.06	3.00E-05
Toluene	0.10	0.58	0.33	0.00		1.01	5.05E-04
Ethylbenzen	0.03	0.55	0.10	0.00		0.69	3.45E-04
Xylene (-m)	0.06	1.35	0.21	0.00		1.62	8.10E-04
Unidentified Components	1.30	432.45	4.42	0.00		438.16	0.22
						Total VOC (tons/yr)	0.22
						Total HAP (tons/yr)	1.75E-03
						Single HAP (Hexane)	8.10E-04

Methodology

Emission calculations based on EPA program "TANKS" Version 4.09b

**Appendix A.2: Emission Calculations
Fuel Dispensing Operations
Volatile Organic Compound (VOC) & Hazardous Air Pollutants (HAPs)**

Company Name: Federal Express Corporation
Source Address: 6648 South Perimeter Road, Indianapolis, IN 46241
MSM Permit Number: 097-43212-00257
MPM Permit Number: 097-43308-00257
Reviewer: Dylan Finley

Fuel Dispensing Operations - VOC Emissions

To calculate evaporative emissions from the dispensing fuel transfer and dispensing operations, emission factors from AP-42 Chapter 5.2 Transportation And Marketing Of Petroleum Liquids were used. The total potential emission of VOC is as follows:

Emission Source	Maximum Daily Throughput (gal/day)	Maximum Annual Gasoline Throughput (gal/yr)	Maximum Annual Gasoline Throughput (kgal/yr)	Emission Factor (lb/kgal of throughput)*	PTE of VOC (tons/yr)
Jet A Loading Rack (existing)	350,000	127,834,770	127,835	0.016	1.023
Jet A Loading Rack (proposed)	350,000	127,834,770	127,835	0.016	1.023
Jet A Aircraft Refueler Trucks**	700,000	255,669,540	255,670	0.016	2.045
Diesel Dispensing Operations (existing) ¹	4,733	1,728,848	1,729	0.030	0.026
Gasoline Dispensing Operations (existing - tanker trucks) ²	2,893	1,056,788	1,057	12.000	6.341
Total					10.457

Emission Source****	Emission Factor (lb/kgal of throughput)***	PTE of VOC (tons/yr)
Vehicle refueling (existing - displaced losses - uncontrolled)	11.00	5.812
Spillage	0.70	0.370
Total		6.182

Methodology

The maximum daily throughput for all fuel types was provided by the source.
 *Emission Factors from AP-42 Chapter 5.2 Transportation And Marketing Of Petroleum Liquids (dated 6/08), Table 5.2-5. Emission factors are for submerged loading unless otherwise specified.
 **This emission source is an intermediate fueling step. Jet A is first loaded from on-site storage tanks into refueler trucks. The trucks then dispense the Jet A into aircraft at the source.
 ***Emission Factors from AP-42 Chapter 5.2 Transportation And Marketing Of Petroleum Liquids (dated 6/08), Table 5.2-7
 ****Emissions associated with filling the fuel storage tank and tank breathing and emptying have already been addressed in tank calculations for TV permit No. T097-34663-00257.
 Maximum Annual Gasoline Throughput (kgal/yr) = Maximum Daily Throughput (gallon/yr) * Average Number of Days in a Year (365.2422) / 1000 gallons
 PTE of VOC (tons/yr) = [Maximum Annual Gasoline Throughput (kgal/yr)] * [Emission Factor (lb/kgal)] * [ton/2000 lb]
¹Emission factor is for splash loading.
²Gasoline fuel is dispensed into tanker trucks at this step. The tanker trucks then dispense the fuel into on-site vehicles (see "Vehicle refueling"). Emission factor is for splash loading.

**Appendix A.2: Emission Calculations
Fuel Dispensing Operations
Volatile Organic Compound (VOC) & Hazardous Air Pollutants (HAPs)**

Company Name: Federal Express Corporation
Source Address: 6648 South Perimeter Road, Indianapolis, IN 46241
Permit Number: 097-43308-00257
Reviewer: Dylan Finley

Fuel Dispensing Operations - HAP Emissions

Dispensing Operation Type	Total PTE of VOC (tons/yr)	PTE of Total HAPs (tons/yr)	PTE of Xylenes (tons/yr)	PTE of Hexane (tons/yr)	PTE of Toluene (tons/yr)
Jet A Loading Rack	1.02	5.9E-03	3.2E-03	0.000	0.001
Jet A Loading Rack	1.02	5.9E-03	3.2E-03	0.000	0.001
Jet A Aircraft Refueler Trucks	2.05	1.2E-02	6.3E-03	0.000	0.003
Diesel Dispensing Operations	0.03	3.4E-04	7.5E-05	0.000	0.000
Gasoline (Dispensing, Vehicle Refueling, Spillage)	12.52	3.186	0.877	0.125	0.877
Totals	16.640	3.186	0.877	0.125	0.877

Hazardous Air Pollutant (HAP) Content (% by weight) For Various Petroleum Mixtures

Volatile Organic HAP	CAS#	HAP Content (% by weight)*		
		Gasoline	Diesel (#2)	Jet A
Hexane (n)	00110-54-3	1.00%	0.00%	0.01%
Benzene	00071-43-2	1.80%	0.00%	0.00%
Toluene	00108-88-3	7.00%	0.03%	0.13%
Ethylbenzene	00100-41-4	1.40%	0.01%	0.13%
Xylene (m)	01330-20-7	7.00%	0.29%	0.31%
1,2,4-Trimethylbenzene	95-63-6	2.50%	1.00%	0.00%
Isocane	26635-64-3	4.00%	0.00%	0.00%
Isopropyl benzene	00098-82-8	0.50%	0.00%	0.00%
Cyclohexane	00110-82-7	0.24%	0.00%	0.00%
Total Organic HAPs		25.44%	1.33%	0.58%
Xylenes		7.00%	0.29%	0.31%
Hexane		1.00%	0.00%	0.01%

Methodology

Emission calculations based on EPA program "TANKS" Version 4.09b, Speciation Profiles Report, Liquid(%) Weight
 PTE of Total HAPs (tons/yr) = [Total HAP Content (% by weight)] * [PTE of VOC (tons/yr)]
 PTE of Worst Single HAP (tons/yr) = [Worst Single HAP Content (% by weight)] * [PTE of VOC (tons/yr)]

**Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Small Industrial Boiler (4 total)**

**Company Name: Federal Express Corporation
Source Address: 6648 South Perimeter Road, Indianapolis, IN 46241
MSM Permit Number: 097-43212-00257
MPM Permit Number: 097-43308-00257
Reviewer: Dylan Finley**

	Heat Input Capacity MMBtu/hr		HHV mmBtu	Potential Throughput MMCF/yr
Insignificant Activity				
Cleaver Brooks (1)	3.5	mmBtu/hr	mmBtu	
Cleaver Brooks (2)	3.5	mmBtu/hr	mmscf	
Total	7.0	mmBtu/hr	1020	60.1

	Pollutant						
Emission Factor in lb/MMCF	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
	1.9	7.6	7.6	0.6	100	5.5	84
Potential Emission in tons/yr	0.1	0.2	0.2	0.0	**see below	0.2	2.5

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

PM2.5 emission factor is filterable and condensable PM2.5 combined.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

HAPS Calculations

	HAPs - Organics					
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	Total - Organics
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	
Potential Emission in tons/yr	6.31E-05	3.61E-05	2.25E-03	5.41E-02	1.02E-04	5.66E-02

	HAPs - Metals					
	Lead	Cadmium	Chromium	Manganese	Nickel	Total - Metals
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	
Potential Emission in tons/yr	1.50E-05	3.31E-05	4.21E-05	1.14E-05	6.31E-05	1.65E-04
					Total HAPs	5.67E-02
					Worst HAP	5.41E-02

Methodology is the same as above.

The five highest organic and metal HAPs emission factors are provided above.

Additional HAPs emission factors are available in AP-42, Chapter 1.4.

**Appendix A: Emission Calculations
Internal Combustion Engines - Diesel Fuel
Reciprocating Engine (<600 HP)**

**Company Name: Federal Express Corporation
Source Address: 6648 South Perimeter Road, Indianapolis, IN 46241
MSM Permit Number: 097-43212-00257
MPM Permit Number: 097-43308-00257
Reviewer: Dylan Finley**

	0.16	Insignificant Activity Five (5) Fire Pump Engines each @ 0.0313 mmBtu/hr, for combined heat input of 0.16 mmBtu/hr
Heat Input Capacity (MMBtu/hr)	500	
Maximum Hours Operated per Year	78.25	
Potential Throughput (MMBtu/yr)		

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/MMBtu	0.31	0.31	0.31	0.29	4.41	0.36	0.95
Potential Emission in tons/yr	0.01	0.01	0.01	0.01	0.17	0.01	0.04

*PM and PM2.5 emission factors are assumed to be equivalent to PM10 emission factors. No information was given regarding which method was used to determine the factor or the fraction of PM10 which is condensable.

Hazardous Air Pollutants (HAPs)

	Pollutant							Total PAH HAPs***
	Benzene	Toluene	Xylene	1,3-Butadiene	Formaldehyde	Acetaldehyde	Acrolein	
Emission Factor in lb/MMBtu	9.33E-04	4.09E-04	2.85E-04	3.91E-05	1.18E-03	7.67E-04	9.25E-05	1.68E-04
Potential Emission in tons/yr	3.65E-05	1.60E-05	1.12E-05	1.53E-06	4.62E-05	3.00E-05	3.62E-06	6.57E-06

Potential Emission of Total HAPs (tons/yr)	1.52E-04
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**Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Small Industrial Boiler (3 total)**

Company Name: Federal Express Corporation
Source Address: 6648 South Perimeter Road, Indianapolis, IN 46241
MSM Permit Number: 097-43212-00257
MPM Permit Number: 097-43308-00257
Reviewer: Dylan Finley

Support Service Building	Heat Input Capacity Rating (MMBtu/hr)
one (1) Lochinvar natural gas boiler	1.5
one (1) Lochinvar natural gas boiler	1.5
one (1) Lochinvar natural gas boiler	1.5
Total	4.5

Insignificant Activity IA 32 Three (3) natural-gas fired Lochinvar Boilers each rated @ 1.5 mmBtu/hr
--

Potential Throughput
MMCF/yr
39.4

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
	1.9	7.6	7.6	0.6	100	5.5	84
Potential Emission in tons/yr	0.00	0.02	0.02	0.00	**see below	0.01	0.19

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
 PM2.5 emission factor is filterable and condensable PM2.5 combined.
 **Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.
 MMBtu = 1,000,000 Btu
 MMCF = 1,000,000 Cubic Feet of Gas
 Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03
 Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

HAPS Calculations

	HAPs - Organics					Total - Organics
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	
Potential Emission in tons/yr	4.73E-06	2.70E-06	1.69E-04	4.05E-03	7.65E-06	4.23E-03

	HAPs - Metals					Total - Metals
	Lead	Cadmium	Chromium	Manganese	Nickel	
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	
Potential Emission in tons/yr	1.13E-06	2.48E-06	3.15E-06	8.55E-07	4.73E-06	1.23E-05
					Total HAPs	4.25E-03
					Worst HAP	4.05E-03

Methodology is the same as above.

The five highest organic and metal HAPs emission factors are provided above.
 Additional HAPs emission factors are available in AP-42, Chapter 1.4.

**Appendix A: Emission Calculations
Abrasive Blasting - Confined
Sanding Booth SB-1**

**Company Name: Federal Express Corporation
Source Address: 6648 South Perimeter Road, Indianapolis, IN 46241
MSM Permit Number: 097-43212-00257
MPM Permit Number: 097-43308-00257
Reviewer: Dylan Finley**

Table 1 - Emission Factors for Abrasives

Abrasive	Emission Factor (EF)	
	lb PM / lb abrasive	lb PM10 / lb PM
Sand	0.041	0.70
Grit	0.010	0.70
Steel Shot	0.004	0.86
Other	0.010	

Potential to Emit Before Control			
FR = Flow rate of actual abrasive (lb/hr) =	100.00	lb/hr (per nozzle)	
w = fraction of time of wet blasting =	0	%	
N = number of nozzles =	1		
EF = PM emission factor for actual abrasive from Table 1 =	0.041	lb PM/ lb abrasive	
PM10 emission factor ratio for actual abrasive from Table 1 =	0.70	lb PM10 / lb PM	
	PM	PM10/PM2.5	
Potential to Emit (before control) =	4.10	2.87	lb/hr
=	98.40	68.88	lb/day
=	17.96	12.57	ton/yr

Potential to Emit After Control			
Emission Control Device Efficiency =	99.0%	99.0%	
Potential to Emit (after control) =	0.04	0.03	lb/hr
=	0.98	0.69	lb/day
=	0.18	0.13	ton/yr

METHODOLOGY

Emission Factors from STAPPA/ALAPCO "Air Quality Permits", Vol. I, Section 3 "Abrasive Blasting" (1991 edition)

Potential to Emit (before control) = EF x FR x (1 - w/200) x N (where w should be entered in as a whole number (if w is 50%, enter 50))

Potential to Emit (after control) = [Potential to Emit (before control)] * [1 - control efficiency]

Potential to Emit (tons/year) = [Potential to Emit (lbs/hour)] x [8760 hours/year] x [ton/2000 lbs]

**Appendix A: Emissions Calculations
VOC and Particulate
Insignificant Activities
From Surface Coating Operations/Degreasing**

**Company Name: Federal Express Corporation
Source Address: 6648 South Perimeter Road, Indianapolis, IN 46241
MSM Permit Number: 097-43212-02257
MPM Permit Number: 097-43308-00257
Reviewer: Dylan Finley**

max gallons per year 170.00

Three (3) Paint Booths

Material	Density (Lb/Gal)	Weight % Volatile (H2O& Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Vol (solids)	Maximum Number of Gallons per hour (gal/hr)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC lbs/hr	Potential VOC lbs/day	Potential VOC tons/yr	Potential PM tons/yr	lb VOC /gal solids	Transfer Efficiency
anti-chafe	9.33	53.60%	0.0%	53.6%	0.0%	32.00%	0.01941	5.00	5.00	0.10	2.33	0.43	0.18	15.63	50%
SD Polyurethane	7.42	75.10%	0.0%	75.1%	0.0%	24.30%	0.01941	5.57	5.57	0.11	2.60	0.47	0.08	22.93	50%
hardner	8.85	24.80%	0.0%	24.8%	0.0%	75.10%	0.01941	2.19	2.19	0.04	1.02	0.19	0.28	2.92	50%
fuel res. coating	7.34	74.00%	0.0%	74.0%	0.0%	25.80%	0.01941	5.43	5.43	0.11	2.53	0.46	0.08	21.05	50%
B700 base	11.00	17.00%	0.0%	17.0%	0.0%	84.60%	0.01941	1.87	1.87	0.04	0.87	0.16	0.39	2.21	50%
activator	8.51	42.10%	0.0%	42.1%	0.0%	51.30%	0.01941	3.58	3.58	0.07	1.67	0.30	0.21	6.98	50%
anti-chafe	11.17	22.50%	0.0%	22.5%	0.0%	65.85%	0.01941	2.51	2.51	0.05	1.17	0.21	0.37	3.82	50%
TOTAL												2.22	1.59		

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
 Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
 Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
 Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
 Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)
 Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr) *(1 ton/2000 lbs)
 Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)
 Transfer Efficiency for Air Atomized spraying on flat surfaces from Chapter 10 Air Pollution Engineering Manual AWMA

DEGREASING

Insignificant Activity Degreasing PTE:

145 gallons loss per 12 month period x 7.36 lb VOC/gallon VOC x ton/2000 lbs = tons VOC per year

**Appendix A: Emissions Calculations
HAP Emission Calculations
Insignificant Activities
From Surface Coating Operations**

**Company Name: Federal Express Corporation
Source Address: 6648 South Perimeter Road, Indianapolis, IN 46241
MSM Permit Number: 097-43212-00257
MPM Permit Number: 097-43308-00257
Reviewer: Dylan Finley**

Three (3) Paint Booths

Material	Density (Lb/Gal)	Gal of Mat (gal/unit)	Maximum (unit/hour)	Weight % Butyl Acetate	Weight % MIBK	Weight % MAK	Weight % Toluene	Weight % Titanium Dioxide	Weight % xylene	Transfer Efficiency	Butyl Acetate (ton/yr)	MIBK (ton/yr)	MAK (ton/yr)	Toluene (ton/yr)	Titanium Dioxide (ton/yr)	Xylene (ton/yr)	Combined HAP (ton/yr)
anti-chafe CTG	9.33	0.017000	1.00	5.00%	5.00%	5.00%	1.00%	20.00%	0.00%	50.00%	0.03	0.03	0.03	0.01	0.07	0.00	0.35
SD Polyurethane A	7.42	0.017000	1.00	0.00%	0.00%	5.00%	0.00%	0.00%	5.00%	50.00%	0.00	0.00	0.03	0.00	0.00	0.03	0.28
hardner	8.85	0.017000	1.00	20.00%	0.00%	0.00%	0.00%	0.00%	20.00%	50.00%	0.13	0.00	0.00	0.00	0.00	0.13	0.33
fuel res. coating	7.34	0.017000	1.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	50.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.27
B700 base	11	0.017000	1.00	0.00%	5.00%	10.00%	1.00%	30.00%	5.00%	50.00%	0.00	0.04	0.08	0.01	0.12	0.04	0.41
activator	8.51	0.017000	1.00	15.00%	15.00%	0.00%	0.00%	0.00%	0.00%	50.00%	0.10	0.10	0.00	0.00	0.00	0.00	0.32
anti-chafe	11.17	0.017000	1.00	0.00%	5.00%	10.00%	1.00%	30.00%	5.00%	50.00%	0.00	0.04	0.08	0.01	0.12	0.04	0.42
TOTAL											0.26	0.21	0.23	0.02	0.32	0.24	1.28

METHODOLOGY

HAPS emission rate (tons/yr) = Density (lb/gal) * Gal of Material (gal/unit) * Maximum (unit/hr) * Weight % HAP * 8760 hrs/yr * 1 ton/2000 lbs

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Small Industrial Boiler (4 total)

Company Name: Federal Express Corporation
Source Address: 6648 South Perimeter Road, Indianapolis, IN 46241
MSM Permit Number: 097-43212-00257
MPM Permit Number: 097-43308-00257
Reviewer: Dylan Finley

Insignificant Activity
Thirty-one (31) natural-gas fired
space heaters with a total
maxium capacity of 12.2 mmBtu/hr

East FedEx Hanger	Rating (MMBtu/hr)	2nd Floor East Hanger	Rating (MMBtu/hr)	East FedEx Hanger Roof	Rating (MMBtu/hr)
Trane Room A-111	0.075	Trane 2nd floor SW	0.15	Lenox #1	0.18
Trane Room A-106	0.15	Trane 2nd floor middle	0.15	Lenox #2	0.235
Trane Room A-106	0.06	Trane 2nd floor NW	0.15	Lenox #3	0.2
Wayne Blue Angel Room A-103	0.04	Trane Room b-202	0.15	Lenox #4	0.2
Sterling Room C-101	0.15				
Trane Room C-103	0.15				
Trane Room C-120	0.15				
Wayne Blue Angel Room B-101	0.4				
Trane Room B-102	0.15				
Trane Room B-102	0.15				
Trane Room B-102	0.15				
Lenox Room B-107	0.1				
Sterling East Hanger Floor	4.063				
Sterling West Hanger Floor	4.063				
Trane Room B-107	0.116				

Building 7	Rating (MMBtu/hr)
Heater #10	0.105
Heater #9	0.105
Heater #6	0.105
Heater #5	0.105
Heater #4	0.1
Heater #3	0.1
East Unit Heater	0.105
West Unit Heater	0.105

Total Heat Input Capacity: **12.2** MMBtu/hr
 Potential Throughput: **107.0** MMCF/yr

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
	1.9	7.6	7.6	0.6	100	5.5	84
					**see below		
Potential Emission in tons/yr	0.01	0.05	0.05	0.00	0.61	0.03	0.51

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
 PM2.5 emission factor is filterable and condensable PM2.5 combined.
 **Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.
 MMBtu = 1,000,000 Btu
 MMCF = 1,000,000 Cubic Feet of Gas
 Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03
 Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

HAPS Calculations

	HAPs - Organics					
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	Total - Organics
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	
Potential Emission in tons/yr	1.28E-05	7.33E-06	4.58E-04	1.10E-02	2.08E-05	1.15E-02

	HAPs - Metals					
	Lead	Cadmium	Chromium	Manganese	Nickel	Total - Metals
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	
Potential Emission in tons/yr	3.05E-06	6.72E-06	8.55E-06	2.32E-06	1.28E-05	3.35E-05
					Total HAPs	1.15E-02
					Worst HAP	1.10E-02

Methodology is the same as above.

The five highest organic and metal HAPs emission factors are provided above.
 Additional HAPs emission factors are available in AP-42, Chapter 1.4.

**Appendix A: Emission Calculations
Tank Storage**

Company Name: Federal Express Corporation
Source Address: 6648 South Perimeter Road, Indianapolis, IN 46241
MSM Permit Number: 097-43212-00257
MPM Permit Number: 097-43308-00257
Reviewer: Dylan Finley

Insignificant Activity
Two (2) underground 10,000 gallon diesel storage tanks

Tank Identification

User Identification: I.A. Diesel Storage 1 and 2
 Type of Tank: Horizontal Tank (2)
 Description: 10,000 gallon tank (each)

Tank Dimensions

Shell Length (ft): 17.0
 Diameter (ft): 10.0
 Volume (gal): 10000.0
 Turnovers: 2.0
 Net Throughput (gal/yr): 20000.0
 Heated tank (y/n?): No

Paint Characteristics

Shell Color/Shade: White/White
 Shell Condition: Good

Breather Vent Settings

Vacuum Settings (psig): 0.0
 Pressure Settings (psig): 0.0

Liquid Contents of Storage Tank

Component/Mixture: Diesel

Daily Liquid Surface Temp (F)

Avg.: 51.7
 Min.: 51.7
 Max.: 51.7
 Liquid Bulk Temp (F): 51.26

Vapor Pressure (psia):

Avg.: 0.0049
 Min.: 0.0049
 Max.: 0.0049
Vapor Molecular Wt.: 130.0
Molecular Wt.: 188.0

Components	Losses (lbs)		Total VOC Emissions
	Working Loss	Breathing Loss	
Diesel (each tank)	0.3	NA	0.3
Combined Total	0.6	NA	0.6
			0.0003 (tons)
Total HAP Vapor Weight (%wt)			8.11%
Total HAP Emissions (tpy)			2.43E-05
Toluene Emissions (ton/yr)*			2.43E-05

Methodology

Emission calculations based on EPA program "TANKS" Version 4.09b
 *Worst case scenario for individual HAP assumes HAP content is 100% toluene

**Appendix A: Emission Calculations
Tank Storage**

Company Name: Federal Express Corporation
Source Address: 6648 South Perimeter Road, Indianapolis, IN 46241
MSM Permit Number: 097-43212-00257
MPM Permit Number: 097-43308-00257
Reviewer: Dylan Finley

Insignificant Activity
Two (2) above ground Used Oil Storage Tanks with a combined capacity of 3000 gallons

Tank Identification

User Identification: Used oil storage tank
 Type of Tank: Vertical
 Description: 3,000 gallon capacity combined

Tank Dimensions

Shell Height (ft): 5.0
 Diameter (ft): 10.0
 Liquid Height (ft): 5.0
 Average Liquid Height (ft): 4.0
 Volume (gal): 3000.0
 Turnovers: 2.0
 Net Throughput (gal/yr): 6000.0
 Heated tank (y/n?): No

Paint Characteristics

Shell Color/Shade: White/White
 Shell Condition: Good
 Roof Color/Shade: White/White
 Roof Condition: Good

Roof Characteristics

Type: Cone
 Height (ft): 5.0
 Slope (ft/ft) (Cone Roof): 0.0

Breather Vent Settings

Vacuum Settings (psig): -0.03
 Pressure Settings (psig): 0.0

Liquid Contents of Storage Tank

Component/Mixture: Diesel/Jet Fuel

Daily Liquid Surface Temp (F)

Avg.: 53.3
 Min.: 37.6
 Max.: 71.1
 Liquid Bulk Temp (F): 52.3

Vapor Pressure (psia):

Avg.: 0.0062
 Min.: 0.0043
 Max.: 0.0114

Vapor Molecular Wt.: 130.0
Molecular Wt.: 188.0

Components	Losses (lbs)		Total Emissions
	Working Loss	Breathing Loss	
Diesel Fuel	0.05	0.19	0.25
Jet Kerosene	0.06	0.22	0.28
			0.53
		VOC	2.65E-04 (tons)

HAPs	% of Total	tons/yr
Hexane (-n)	1.42%	3.76E-06
Benzene	0.69%	1.83E-06
Toluene	6.42%	1.70E-05
Ethylbenzene	2.00%	5.30E-06
Xylene (-m)	4.06%	1.08E-05
Total HAP		3.87E-05

Methodology

Emission calculations based on EPA program "TANKS" Version 4.09b

**Appendix A: Emission Calculations
Fugitive Dust Emissions - Paved Roads**

Company Name: Federal Express Corporation
Source Address: 6648 South Perimeter Road, Indianapolis, IN 46241
MSM Permit Number: 097-43212-00257
MPM Permit Number: 097-43308-00257
Reviewer: Dylan Finley

Paved Roads at Industrial Site

The following calculations determine the amount of emissions created by paved roads, based on 8,760 hours of use and AP-42, Ch 13.2.1 (1/2011).

Vehicle Information (provided by source)

Type	Maximum number of vehicles per day	Number of one-way trips per day per vehicle	Maximum trips per day (trip/day)	Maximum Weight of Loaded Vehicle (tons/trip)	Total Weight driven per day (ton/day)	Maximum one-way distance (feet/trip)	Maximum one-way distance (mi/trip)	Maximum one-way miles (miles/day)	Maximum one-way miles (miles/yr)
Vehicle (entering plant) (one-way trip)	197.0	1.0	197.0	35.0	6895.0	1000	0.189	37.3	13618.4
Vehicle (leaving plant) (one-way trip)	197.0	1.0	197.0	35.0	6895.0	1000	0.189	37.3	13618.4
Totals			394.0		13790.0			74.6	27236.7

Average Vehicle Weight Per Trip = tons/trip
 Average Miles Per Trip = miles/trip

Unmitigated Emission Factor, Ef = $[k * (sL)^{0.91} * (W)^{1.02}]$ (Equation 1 from AP-42 13.2.1)

	PM	PM10	PM2.5	
where k =	0.011	0.0022	0.00054	lb/VMT = particle size multiplier (AP-42 Table 13.2.1-1)
W =	35.0	35.0	35.0	tons = average vehicle weight
sL =	0.6	0.6	0.6	g/m ² = ubiquitous silt loading default values with hot spot contribution from anti-skid abrasives - Table 13.2.1-2)

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor, Eext = $E * [1 - (p/4N)]$ (Equation 2 from AP-42 13.2.1)

Mitigated Emission Factor, Eext = $Ef * [1 - (p/4N)]$
 where p = days of rain greater than or equal to 0.01 inches (see Fig. 13.2.1-2)
 N = days per year

	PM	PM10	PM2.5	
Unmitigated Emission Factor, Ef =	0.260	0.052	0.0127	lb/mile
Mitigated Emission Factor, Eext =	0.237	0.047	0.0117	lb/mile
Dust Control Efficiency =	0%	0%	0%	(pursuant to control measures outlined in fugitive dust control plan)

Process	Mitigated PTE of PM (Before Control) (tons/yr)	Mitigated PTE of PM10 (Before Control) (tons/yr)	Mitigated PTE of PM2.5 (Before Control) (tons/yr)	Mitigated PTE of PM (After Control) (tons/yr)	Mitigated PTE of PM10 (After Control) (tons/yr)	Mitigated PTE of PM2.5 (After Control) (tons/yr)
Vehicle (entering plant) (one-way trip)	1.62	0.32	0.08	1.62	0.32	0.08
Vehicle (leaving plant) (one-way trip)	1.62	0.32	0.08	1.62	0.32	0.08
Totals	3.23	0.65	0.16	3.23	0.65	0.16

Methodology

Total Weight driven per day (ton/day) = [Maximum Weight of Loaded Vehicle (tons/trip)] * [Maximum trips per day (trip/day)]
 Maximum one-way distance (mi/trip) = [Maximum one-way distance (feet/trip)] / [5280 ft/mile]
 Maximum one-way miles (miles/day) = [Maximum trips per year (trip/day)] * [Maximum one-way distance (mi/trip)]
 Average Vehicle Weight Per Trip (ton/trip) = SUM[Total Weight driven per day (ton/day)] / SUM[Maximum trips per day (trip/day)]
 Average Miles Per Trip (miles/trip) = SUM[Maximum one-way miles (miles/day)] / SUM[Maximum trips per year (trip/day)]
 Unmitigated PTE (tons/yr) = [Maximum one-way miles (miles/yr)] * [Unmitigated Emission Factor (lb/mile)] * (ton/2000 lbs)
 Mitigated PTE (Before Control) (tons/yr) = [Maximum one-way miles (miles/yr)] * [Mitigated Emission Factor (lb/mile)] * (ton/2000 lbs)
 Mitigated PTE (After Control) (tons/yr) = [Mitigated PTE (Before Control) (tons/yr)] * [1 - Dust Control Efficiency]

Abbreviations

PM = Particulate Matter
 PM10 = Particulate Matter (<10 um)
 PM2.5 = Particle Matter (<2.5 um)
 PTE = Potential to Emit

**Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100**

**Company Name: Federal Express Corporation
Source Address: 6648 South Perimeter Road, Indianapolis, IN 46241
MSM Permit Number: 097-43212-00257
MPM Permit Number: 097-43308-00257
Reviewer: Dylan Finley**

Heat Input Capacity MMBtu/hr	HHV mmBtu mmscf	Potential Throughput MMCF/yr
9.4	1020	81.0

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
	1.9	7.6	7.6	0.6	100	5.5	84
Potential Emission in tons/yr	0.08	0.31	0.31	0.02	**see below	0.22	3.40

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
PM2.5 emission factor is filterable and condensable PM2.5 combined.
**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas
Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03
Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Hazardous Air Pollutants (HAPs)

Emission Factor in lb/MMcf	HAPs - Organics					
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	Total - Organics
	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	
Potential Emission in tons/yr	8.5E-05	4.9E-05	3.0E-03	0.07	1.4E-04	0.08

Emission Factor in lb/MMcf	HAPs - Metals					
	Lead	Cadmium	Chromium	Manganese	Nickel	Total - Metals
	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	
Potential Emission in tons/yr	2.0E-05	4.5E-05	5.7E-05	1.5E-05	8.5E-05	2.2E-04
					Total HAPs	0.08
					Worst HAP	0.07

Methodology is the same as above.
The five highest organic and metal HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter 1.4.



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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October 15, 2020

Dustin Rice
Federal Express Corp
10585 Heater Ct
San Diego CA 92121

Re: Public Notice
Federal Express Corporation
Permit Level: Title V Minor Permit Modification
Permit Number: 097-43308-00257

Dear Dustin Rice:

Enclosed is the Notice of 30-Day Period for Public Comment for your draft air permit.

Our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person. The Notice of 30-Day Period for Public Comment has also been sent to the OAQ Permits Branch Interested Parties List and, if applicable, your Consultant/Agent and/or Responsible Official/Authorized Individual.

The preliminary findings, including the draft permit, technical support document, emission calculations, and other supporting documents, **are available electronically at:**

IDEM's online searchable database: <http://www.in.gov/apps/idem/caats/> . Choose Search Option by **Permit Number**, then enter permit 43308

and

IDEM's Virtual File Cabinet (VFC): <http://www.IN.gov/idem>. Enter VFC in the search box, then search for permit documents using a variety of criteria, such as Program area, date range, permit #, Agency Interest Number, or Source ID.

The Public Notice period will begin the date the Notice is published on the IDEM Official Public Notice website. Publication has been requested and is expected within 2-3 business days. You may check the exact Public Notice begins and ends date here: <https://www.in.gov/idem/5474.htm>

Please note that as of April 17, 2019, IDEM is no longer required to publish the notice in a newspaper.

OAQ has submitted the draft permit package to the Indianapolis Public Library - Decatur, 5301 Kentucky Ave, Indianapolis IN 46221. As a reminder, you are obligated by 326 IAC 2-1.1-6(c) to place a copy of the complete permit application at this library no later than ten (10) days after submittal of the application or additional information to our department. We highly recommend that even if you have already placed these materials at the library, that you confirm with the library that these materials are available for review and request that the library keep the materials available for review during the entire permitting process.

Please review the draft permit documents carefully. This is your opportunity to comment on the draft permit and notify the OAQ of any corrections that are needed before the final decision. Questions or comments about the enclosed documents should be directed to Dylan Finley, Indiana Department of Environmental Management, Office of Air Quality, 100 N. Senate Avenue, Indianapolis, Indiana, 46204 or call (800) 451-6027, and ask for extension 2-1139 or dial (317) 232-1139.

Sincerely,

L. Pogost

L. Pogost
Permits Branch
Office of Air Quality

Enclosures

PN Applicant Cover Letter access via website 8/10/2020



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Eric J. Holcomb
Governor

Bruno L. Pigott
Commissioner

October 15, 2020

To: Indianapolis Public Library - Decatur 5301 Kentucky Ave Indianapolis IN 46221

From: Jenny Acker, Branch Chief
Permits Branch
Office of Air Quality

Subject: **Important Information to Display Regarding a Public Notice for an Air Permit**

Applicant Name: Federal Express Corporation
Permit Number: 097-43308-00257

Enclosed is a copy of important information to make available to the public. This proposed project is regarding a source that may have the potential to significantly impact air quality. Librarians are encouraged to educate the public to make them aware of the availability of this information. The following information is enclosed for public reference at your library:

- Notice of a 30-day Period for Public Comment
- Draft Permit and Technical Support Document

You will not be responsible for collecting any comments from the citizens. Please refer all questions and request for the copies of any pertinent information to the person named below.

Members of your community could be very concerned in how these projects might affect them and their families. **Please make this information readily available until you receive a copy of the final package.**

If you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185. Questions pertaining to the permit itself should be directed to the contact listed on the notice.

Enclosures
PN Library updated 4/2019



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Notice of Public Comment

October 15, 2020
Federal Express Corporation
097-43308-00257

Dear Concerned Citizen(s):

You have been identified as someone who could potentially be affected by this proposed air permit. The Indiana Department of Environmental Management, in our ongoing efforts to better communicate with concerned citizens, invites your comment on the draft permit.

Enclosed is a Notice of Public Comment, which has posted on IDEM's Public Notice website at <https://www.in.gov/idem/5474.htm>.

The application and supporting documentation for this proposed permit have been placed at the library indicated in the Notice. These documents more fully describe the project, the applicable air pollution control requirements and how the applicant will comply with these requirements.

If you would like to comment on this draft permit, please contact the person named in the enclosed Public Notice. Thank you for your interest in the Indiana's Air Permitting Program.

Please Note: *If you feel you have received this Notice in error, or would like to be removed from the Air Permits mailing list, please contact Joanne Smiddie-Brush with the Air Permits Administration Section at 1-800-451-6027, ext. 3-0185 or via e-mail at JBRUSH@IDEM.IN.GOV. If you have recently moved and this Notice has been forwarded to you, please notify us of your new address and if you wish to remain on the mailing list. Mail that is returned to IDEM by the Post Office with a forwarding address in a different county will be removed from our list unless otherwise requested.*

Enclosure
PN AAA Cover Letter 2/28/2020

Mail Code 61-53

IDEM Staff	LPOGOST 10/14/2020 Federal Express Corp 097-43308-00257draft and 097-43212-00257final		AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender	 Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail: CERTIFICATE OF MAILING ONLY	

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		Dustin Rice Federal Express Corp 10585 Heater Ct San Diego CA 92121 (Source CAATS) VIA UPS										
2		Alison Bird Federal Express Corp 3620 Hacks Cross Rd Memphis TN 38125 (RO CAATS)										
3		Planning Div., Dept. of Metropolitan Development 1735 S. West St. Indianapolis IN 46225 (Local Official)										
4		City of Indianapolis, Attn: General Council 200 East Washington Street, Rm E Indianapolis IN 46204 (Affected Party)										
5		Sebastian Valverde 4235 Springwood Trail Indianapolis IN 46228 (Affected Party)										
6		Marion County Health Department 3838 N, Rural St Indianapolis IN 46205-2930 (Health Department)										
7		Indianapolis Public Library - Decatur 5301 Kentucky Ave Indianapolis IN 46221 (Library) 43308d PUBLIC NOTICE ONLY										
8		Indianapolis City Council and Mayors office 200 East Washington Street, Room E Indianapolis IN 46204 (Local Official)										
9		Marion County Commissioners 200 E. Washington St. City County Bldg., Suite 801 Indianapolis IN 46204 (Local Official)										
10		Matt Mosier Office of Sustainability City-County Bldg/200 E Washington St. Rm# 2460 Indianapolis IN 46204 (Local Official)										
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