



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

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**Eric J. Holcomb**  
Governor

**Brian C. Rockensuess**  
Commissioner

To: Interested Parties

Date: June 26, 2024

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

Source Name: CF Industries Distribution Facilities, LLC – Frankfort Terminal

Permit Level: Registration Administrative Amendment

Permit Number: 023-47885-00044

Source Location: 6446 West State Route 28, Frankfort, Indiana 46041

Type of Action Taken: Changes that are administrative in nature

## Notice of Decision: Approval

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the matter referenced above. Pursuant to 326 IAC 2, this approval was effective immediately upon submittal of the application.

The final decision is available on the IDEM website at: <http://www.in.gov/apps/idem/caats/>  
To view the document, choose Search Option **by Permit Number**, then enter permit 47885. This search will also provide the application received date and **final** permit issuance date.

The final decision is also available via IDEM's Virtual File Cabinet (VFC). Please go to: <https://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.

*(continues on next page)*

If you would like to request a paper copy of the permit document, please contact IDEM's Office of Records Management:

IDEM - Office of Records Management  
Indiana Government Center North, Room 1207  
100 North Senate Avenue  
Indianapolis, IN 46204  
Phone: (317) 232-8667  
Fax: (317) 233-6647  
Email: [IDEMFILEROOM@idem.in.gov](mailto:IDEMFILEROOM@idem.in.gov)

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room N103, Indianapolis, IN 46204, **within eighteen (18) calendar days from the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.



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*Governor*

**Brian C. Rockensuess**  
*Commissioner*

June 26, 2024

Ryan Kahn  
CF Industries Distribution Facilities, LLC - Frankfort Terminal  
2375 Waterview Drive  
Northbrook, IL 60062

Re: 023-47885-00044  
Administrative Amendment to  
Registration No. R023-26503-00044

Dear Ryan Kahn:

CF Industries Distribution Facilities, LLC - Frankfort Terminal was issued a Registration No. R023-26503-00044 on July 24, 2008 for a stationary ammonia fertilizer storage and distribution facility located at 6446 W. State Route 28, Frankfort, Indiana 46041. On May 28, 2024, the Office of Air Quality (OAQ) received an application from the source requesting to modify the existing flare, identified as F1, with new flare piping, header, supports, flame arrestors, and pilot assemblies and add a temporary flare, identified as TF1.

Pursuant to 326 IAC 2-5.5-6, the registration is hereby amended as described in the attached Technical Support Document.

All other conditions of the registration shall remain unchanged and in effect.

Please find attached the entire registration as amended. The registration 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 amendment:

Attachment A: 40 CFR 60, Subpart JJJJ, Stationary Spark Ignition Internal Combustion Engines  
Attachment B: 40 CFR 63, Subpart ZZZZ, Stationary Reciprocating Internal Combustion Engines

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: <https://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](http://www.ecfr.gov/cgi-bin/text-idx?tpl=/ecfrbrowse/Title40/40tab_02.tpl).

A copy of the registration is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>. A copy of the application and registration is also available via IDEM's Virtual File Cabinet (VFC). To access VFC, please go to: <https://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: <https://www.in.gov/idem/airpermit/public-participation/>; and the Citizens' Guide to IDEM on the Internet at: <https://www.in.gov/idem/resources/citizens-guide-to-idem/>.

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

If you have any questions regarding this matter, please contact Pratim Moulik, 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) 234-6871 or (800) 451-6027, and ask for Pratim Moulik or (317) 234-6871.

Sincerely,

A handwritten signature in blue ink, appearing to read "J. Balogun", with a horizontal line extending to the right and a small mark at the end.

Josiah K. Balogun, Section Chief  
Permits Branch  
Office of Air Quality

Attachment(s): Revised Registration and Technical Support Document

cc: File - Clinton County  
Clinton County Health Department  
Compliance and Enforcement Branch



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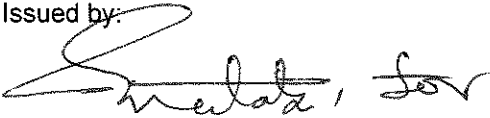
## REGISTRATION OFFICE OF AIR QUALITY

### CF Industries Distribution Facilities, LLC – Frankfort Terminal 6446 W. State Route 28 Frankfort IN 46041

Pursuant to 326 IAC 2-5.1 (Construction of New Sources: Registrations) and 326 IAC 2-5.5 (Registrations), (herein known as the Registrant) is hereby authorized to construct and operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this registration.

Registration No. 023-26503-00044 Master Agency Interest ID.: 14863	
Issued by/Original Signed By:  Alfred C. Dumauval, Ph. D., Section Chief Permits Branch Office of Air Quality	Issuance Date: July 24, 2008

First Administration Amendment No.: 023-32686-00044, issued on January 18, 2013  
Second Administrative Amendment No. 023-35577-00044 issued on March 23, 2015  
Third Administrative Amendment No.: 023-36405-00044, issued on December 15, 2015  
Fourth Administrative Amendment No.: 023-41403-00044, issued on May 13, 2019

Administration Amendment No.: 023-47885-00044	
Issued by:  Josiah K. Balogun, Section Chief Permits Branch Office of Air Quality	Issuance Date: June 26, 2024

**SECTION A****SOURCE SUMMARY**

This registration 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 and A.2 is descriptive information and does not constitute enforceable conditions. However, the Registrant 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 Registrant to obtain additional permits pursuant to 326 IAC 2.

**A.1 General Information**

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The Registrant owns and operates a stationary ammonia fertilizer storage and distribution facility.

Source Address:	6446 W. State Route 28, Frankfort, Indiana 46041-0606
General Source Phone Number:	(847) 405-2400
SIC Code:	5191
County Location:	Clinton County
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Registration

**A.2 Emission Units and Pollution Control Equipment Summary**

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

- (a) One (1) natural gas fired process heater, identified as PH1, constructed in 1972, with a maximum heat input rate of 29 MMBtu per hour, exhausting to stacks PH1-1 through PH1-4.
- (b) One (1) natural gas fired flare, identified as F1, constructed in 1990 and approved in 2024 for modification, with a maximum heat input rate of 0.102 MMBtu per hour to the flare pilot and 4.854 MMBtu per hour to the flare assist ring, exhausting to stack F1.
- (c) One (1) cold cleaner degreasing unit, identified as D1, approved in 2015 for construction, with a maximum capacity of fifteen gallons of cleaning solvent (forty-five gallons per year).
- (d) One (1) natural gas fired emergency generator, identified as EG1, approved in 2015 for construction, with a maximum capacity of 149 HP, using no control, and exhausting to the outdoors
- (e) One (1) temporary propane flare, identified as TF1, approved in 2024 for construction, with a maximum capacity of 4.96 MMBtu per hour, uncontrolled, and exhausting outdoors.

**SECTION B****GENERAL CONDITIONS****B.1 Definitions [326 IAC 2-1.1-1]**

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Terms in this registration 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 2-1.1-1) shall prevail.

**B.2 Effective Date of Registration [IC 13-15-5-3]**

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Pursuant to IC 13-15-5-3, this registration is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

**B.3 Registration Revocation [326 IAC 2-1.1-9]**

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Pursuant to 326 IAC 2-1.1-9 (Revocation), this registration to operate may be revoked for any of the following causes:

- (a) Violation of any conditions of this registration.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this registration.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this registration shall not require revocation of this registration.
- (d) For any cause which establishes in the judgment of IDEM, the fact that continuance of this registration is not consistent with purposes of this article.

**B.4 Prior Permits Superseded [326 IAC 2-1.1-9.5]**

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- (a) All terms and conditions of permits established prior to Registration No. R023-26503-00044 and issued pursuant to permitting programs approved into the state implementation plan have been either:
  - (1) incorporated as originally stated,
  - (2) revised, or
  - (3) deleted.
- (b) All previous registrations and permits are superseded by this registration.

**B.5 Annual Notification [326 IAC 2-5.1-2(f)(3)] [326 IAC 2-5.5-4(a)(3)]**

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Pursuant to 326 IAC 2-5.1-2(f)(3) and 326 IAC 2-5.5-4(a)(3):

- (a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this registration.
- (b) The annual notice shall be submitted in the format attached no later than March 1 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, IN 46204-2251

- (c) The notification 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.

**B.6 Source Modification Requirement [326 IAC 2-5.5-6(a)]**

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Pursuant to 326 IAC 2-5.5-6(a), an application or notification shall be submitted in accordance with 326 IAC 2 to the Office of Air Quality (OAQ) if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source.

**B.7 Registrations [326 IAC 2-5.1-2(i)]**

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Pursuant to 326 IAC 2-5.1-2(i), this registration does not limit the source's potential to emit.

**B.8 Preventive Maintenance Plan [326 IAC 1-6-3]**

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- (a) If required by specific condition(s) in Section D of this registration, the Registrant shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this registration 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 Registrant's control, the PMPs cannot be prepared and maintained within the above time frame, the Registrant may extend the date an additional ninety (90) days provided the Registrant 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 Registrant shall implement the PMPs.

- (b) 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 Registrant to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions.
- (c) To the extent the Registrant is required by 40 CFR Part 60 or 40 CFR Part 63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such OMM Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.



**SECTION C****SOURCE OPERATION CONDITIONS**

Entire Source
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**Emission Limitations and Standards [326 IAC 2-5.1-2(g)] [326 IAC 2-5.5-4(b)]****C.1 Opacity [326 IAC 5-1]**

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

- (a) Opacity shall not exceed an average of forty percent (40%) 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 Fugitive Dust Emissions [326 IAC 6-4]**

The Registrant 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).

**Corrective Actions and Response Steps****C.3 Response to Excursions or Exceedances [326 IAC 2-5.1-3(e)(2)]**

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

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

### **Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)]**

#### **C.4 General Record Keeping Requirements [326 IAC 2-5.1-3(e)(2)]**

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- (a) Records of all required monitoring data, reports and support information required by this registration shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. 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 Registrant, the Registrant shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this registration, for all record keeping requirements not already legally required, the Registrant shall be allowed up to ninety (90) days from the date of registration issuance or the date of initial start-up, whichever is later, to begin such record keeping.

#### **C.5 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-5.1-3(e)(2)] [IC 13-14-1-13]**

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- (a) Reports required by conditions in Section D of this registration 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
- (b) Unless otherwise specified in this registration, any notice, report, or other submission required by this registration 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 first report shall cover the period commencing on the date of issuance of this registration or the date of initial start-up, whichever is later, and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this registration. For the purpose of this registration, “calendar year” means the twelve (12) month period from January 1 to December 31 inclusive.

**SECTION D.1****OPERATION CONDITIONS**

Facility Description [326 IAC 2-5.1-2(f)(2)] [326 IAC 2-5.5-4(a)(2)]:

- (c) One (1) cold cleaner degreasing unit, identified as D1, approved in 2015 for construction, with a maximum capacity of fifteen gallons of cleaning solvent (forty-five gallons per year).

(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 2-5.1-2(f)(1)] [326 IAC 2-5.5-4(a)(1)]****D.1.1 Volatile Organic Compounds (VOC) Limitations [326 IAC 8-3]**

- (a) Pursuant to 326 IAC 8-3-2 (Cold Cleaner Degreaser Control and Equipment Operating Requirements), the Permittee shall 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 (a)(3), (a)(4), (a)(6), and (a)(7) of this condition.
  - (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) The Permittee shall 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 (b)(1)(A) through (D) of this condition 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 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.1.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-8]

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Pursuant to 326 IAC 8-3-8 (Material Requirements for Cold Cleaner Degreasers), the Permittee shall not operate a cold cleaner 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).

### Record Keeping and Reporting Requirements

#### D.1.3 Record Keeping Requirements

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- (a) Pursuant to 326 IAC 8-3-8(c)(2), the following records shall be maintained for each purchase of cold cleaner degreaser solvent:
  - (1) The name and address of the solvent supplier.
  - (2) The date of purchase (or invoice/bill dates of contract servicer indicating service date).
  - (3) The type of solvent purchased.
  - (4) The total volume of the solvent purchased.
  - (5) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).
- (b) All records required by 326 IAC 8-3-8(c)(2) shall be:
  - (1) retained on-site or accessible electronically from the site for the most recent three (3) year period; and
  - (2) reasonably accessible for an additional two (2) year period.
- (c) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

**SECTION E.1****NSPS****Emissions Unit Description:**

- (d) One (1) natural gas fired emergency generator, identified as EG1, approved in 2015 for construction, with a maximum capacity of 149 HP, using no control, and exhausting to the outdoors

(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 2-5.5-4(a)]****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 JJJJ.

- (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

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

**E.1.2 For new stationary RICE at an area source of HAP NSPS [326 IAC 12] [40 CFR Part 60, Subpart JJJJ]**

The Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart JJJJ (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 60.4230 (a)(4)(iv), (a)(6), (c)
- (2) 40 CFR 60.4233 (e)
- (3) 40 CFR 60.4234
- (4) 40 CFR 60.4237(b)
- (5) 40 CFR 60.4243 (a)(1), (b)(2), (d)
- (6) 40 CFR 60.4244 (a), (b), (c), (d), (e), (f)
- (7) 40 CFR 60.4245 (a)(1), (a)(2), (a)(3), (d)

**SECTION E.2****NESHAP****Emissions Unit Description:**

- (d) One (1) natural gas fired emergency generator, identified as EG1, approved in 2015 for construction, with a maximum capacity of 149 HP, using no control, and exhausting to the outdoors

(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 2-5.5-4(a)]****E.2.1 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

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

**E.2.2 Stationary 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 B to this permit), for the emission unit(s) listed above:

- (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

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

**REGISTRATION  
ANNUAL NOTIFICATION**

This form should be used to comply with the notification requirements under 326 IAC 2-5.1-2(f)(3) and 326 IAC 2-5.5-4(a)(3).

<b>Company Name:</b>	CF Industries Distribution Facilities, LLC – Frankfort Terminal
<b>Address:</b>	6446 W. State Route 28
<b>City:</b>	Frankfort, Indiana 46041-0606
<b>Phone Number:</b>	(847) 405-2400
<b>Registration No.:</b>	023-26503-00044

I hereby certify that CF Industries Distribution Facilities, LLC – Frankfort Terminal is :

- still in operation.
- no longer in operation.

I hereby certify that CF Industries Distribution Facilities, LLC – Frankfort Terminal is :

- in compliance with the requirements of Registration No. 023-26503-00044.
- not in compliance with the requirements of Registration No. 023-26503-00044.

<b>Authorized Individual (typed):</b>
<b>Title:</b>
<b>Signature:</b>
<b>Phone Number:</b>
<b>Date:</b>

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

<b>Noncompliance:</b>

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

**Technical Support Document (TSD) for a Registration Administrative  
Amendment (AA)**

**Source Description and Location**

**Source Name:** CF Industries Distribution Facilities, LLC – Frankfort Terminal  
**Source Location:** 6446 W. State Route 28, Frankfort, Indiana 46041  
**County:** Clinton  
**SIC Code:** 5191 (Farm Supplies, Not Elsewhere Classified)  
**Registration No.:** R 023-26503-00044  
**Registration Issuance Date:** July 24, 2008  
**Registration Administrative Amendment No.:** 023-47885-00044  
**Permit Reviewer:** Pratim Moulik

On May 28, 2024, the Office of Air Quality (OAQ) received an application from CF Industries Distribution Facilities, LLC – Frankfort Terminal related to changes at an existing stationary ammonia fertilizer storage and distribution facility.

**Existing Approvals**

The source was issued Registration No. 023-26503-00044 on July 24, 2008. The source has since received the following approvals:

Permit Type	Permit Number	Issuance Date
Registration Administrative Amendment	023-32686-00044	January 18, 2013
Registration Administrative Amendment	023-35577-00044	March 23, 2015
Registration Administrative Amendment	023-36405-00044	December 15, 2015
Registration Administrative Amendment	023-41403-00044	May 13, 2019

**County Attainment Status**

The source is located in Clinton County.

Pursuant to amendments to Indiana Code IC 13-17-3-14, effective July 1, 2023, a federal regulation that classifies or amends a designation of attainment, nonattainment, or unclassifiable for any area in Indiana under the federal Clean Air Act is effective and enforceable in Indiana on the effective date of the federal regulation.

Pollutant	Designation
SO <sub>2</sub>	Unclassifiable or attainment effective April 9, 2018, for the 2010 primary 1-hour SO <sub>2</sub> standard. Better than national secondary standards effective March 3, 1978.
CO	Unclassifiable or attainment effective November 15, 1990.
O <sub>3</sub>	Unclassifiable or attainment effective January 16, 2018, for the 2015 8-hour ozone standard.
PM <sub>2.5</sub>	Unclassifiable or attainment effective April 15, 2015, for the 2012 annual PM <sub>2.5</sub> standard.
PM <sub>2.5</sub>	Unclassifiable or attainment effective December 13, 2009, for the 2006 24-hour PM <sub>2.5</sub> standard.



Pollutant	Designation
PM <sub>10</sub>	Unclassifiable effective November 15, 1990.
NO <sub>2</sub>	Unclassifiable or attainment effective January 29, 2012, for the 2010 NO <sub>2</sub> 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<sub>x</sub>) 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<sub>x</sub> emissions are considered when evaluating the rule applicability relating to ozone. Clinton County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO<sub>x</sub> emissions were reviewed pursuant to the requirements of Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) PM<sub>2.5</sub>  
Clinton County has been classified as attainment for PM<sub>2.5</sub>. Therefore, direct PM<sub>2.5</sub>, SO<sub>2</sub>, and NO<sub>x</sub> emissions were reviewed pursuant to the requirements of Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (c) Other Criteria Pollutants  
Clinton 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**

The fugitive emissions of regulated air pollutants and hazardous air pollutants (HAP) are counted toward the determination of Registration (326 IAC 2-5.1-5) 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](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**

This table reflects the unrestricted potential emissions of the source prior to the proposed administrative amendment. 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.

	Unrestricted Source-Wide Emissions Prior to Administrative Amendment (tons/year)								
	PM <sup>1</sup>	PM <sub>10</sub> <sup>1</sup>	PM <sub>2.5</sub> <sup>1,2</sup>	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	Single HAP <sup>3</sup>	Total HAPs
Natural Gas Combustion(Process Heater and Flare pilot)	0.24	0.95	0.95	0.07	12.47	0.69	10.48	0.22	0.23
Process Flare Fuel-Bound and Thermal Nox	-	-	-	-	0.39	-	-	-	-
Degreasing	-	-	-	-	-	0.15	-	-	6.6E-6
Natural Gas Emergency Generator	7.2E-4	9.0E-4	9.0E-4	1.1E-5	0.08	0.002	0.69	2.1E-5	1.5E-3
Fugitive Dust Paved Roads	2.92	0.57	0.02	-	-	-	-	-	-
Fugitive Dust Unpaved Roads	17.39	4.43	0.54	-	-	-	-	-	-
Total PTE of Entire Source Including Source-Wide Fugitives	20.54	5.95	1.51	0.08	12.94	0.84	10.55	0.22	0.23
Exemptions Levels	< 5	< 5	< 5	< 10	< 10	< 10	< 25	< 10	< 25
Registration Levels	< 25	< 25	< 25	< 25	< 25	< 25	< 100	< 10	< 25
<sup>1</sup> Under the Part 70 Permit program (40 CFR 70), PM <sub>10</sub> and PM <sub>2.5</sub> , not particulate matter (PM), are each considered as a "regulated air pollutant." <sup>2</sup> PM <sub>2.5</sub> listed is direct PM <sub>2.5</sub> . <sup>3</sup> Single highest source-wide HAP. (Hexane)									

These emissions are based on the TSD of Registration AA No. 023-36405-00044, issued on December 15, 2015.

**Description of Amendment**

The Office of Air Quality (OAQ) has reviewed an application, submitted by CF Industries Distribution Facilities, LLC – Frankfort Terminal on May 28, 2024, relating to the modification of the existing flare, identified as F1, with new flare piping, header, supports, flame arrestors, and pilot assemblies and the addition of a temporary flare, identified as TF1.

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

- (a) One (1) natural gas fired flare, identified as F1, permitted in 1990 and approved in 2024 for modification, with a maximum heat input rate of 0.102 MMBtu per hour to the flare pilot and 4.854 MMBtu per hour to the flare assist ring, exhausting to stack F1.
- (b) One (1) portable temporary propane flare, identified as TF1, approved in 2024 for construction, with a maximum heat input rate of 4.96 MMBtu per hour, uncontrolled, and exhausting outdoors.

**Enforcement Issues**

There are no pending enforcement actions related to this administrative amendment.

**Emission Calculations**

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

**Permit Level Determination – Registration Administrative Amendment**

The following table is used to determine the appropriate revision level under 326 IAC 2-5.5-6. This table reflects the PTE before controls of the administrative amendment. 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.

	PTE Increases Due to the Administrative Amendment (ton/year)								
	PM	PM <sub>10</sub>	PM <sub>2.5</sub> <sup>1</sup>	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	Single HAP <sup>2</sup>	Total HAPs
Total PTE Before Controls of the New Emission Units (Temporary Flare)	0.05	0.17	0.17	0.01	3.08	0.24	1.78	-	-
Total PTE Increase of the Modified Emission Unit(s)/Process (Flare F1)	7.5E-4	3.0E-3	3.0E-3	2.4E-4	0.04	2.2E-3	0.04	7.1E-4	7.5E-4
<b>Total PTE of the Administrative Amendment</b>	<b>0.05</b>	<b>0.17</b>	<b>0.17</b>	<b>0.01</b>	<b>3.12</b>	<b>0.24</b>	<b>1.81</b>	<b>7.1E-4</b>	<b>7.5E-4</b>
<sup>1</sup> PM <sub>2.5</sub> listed is direct PM <sub>2.5</sub> . <sup>2</sup> Single highest HAP. (Hexane)									

Appendix A of this TSD reflects the detailed potential emissions of the administrative amendment.

Pursuant to 326 IAC 2-5.5-6(d)(11), this change to the permit is considered an administrative amendment, because the permit is amended to add or modify emissions unit(s) described under 326 IAC 2-1.1-3(e)(1) through 326 IAC 2-1.1-3(e)(31). A temporary flare is being added and the current flare F1 is being modified.

**PTE of the Entire Source After Issuance of the Registration Administrative Amendment**

The table below summarizes the after issuance source-wide unrestricted potential to emit. 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.

	Unrestricted Source-Wide Emissions After Issuance (ton/year) (tons/year)								
	PM <sup>1</sup>	PM <sub>10</sub> <sup>1</sup>	PM <sub>2.5</sub> <sup>1,2</sup>	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	Single HAP <sup>3</sup>	Total HAPs
Natural Gas Combustion (Process heater and flare pilot)	0.28	1.11	1.11	0.09	14.58	0.80	12.25	0.26	0.28
Temporary Flare	0.05	0.17	0.17	0.01	3.08	0.24	1.78	-	-
Process Flare Fuel-Bound and thermal Nox	-	-	-	-	0.39	-	-	-	-
Degreasing	-	-	-	-	-	0.15	-	-	6.6E-6
Natural Gas Emergency Generator	7.2E-4	9.0E-4	9.0E-4	1.1E-5	0.08	2.2E-3	0.07	2.1E-5	1.5E-3
Fugitive Dust Paved Roads	7.73	1.55	0.38	-	-	-	-	-	-
Fugitive Dust Unpaved Roads	15.74	4.20	0.42	-	-	-	-	-	-
Total PTE of Entire Source Including Source-Wide Fugitives	23.80	7.02	2.07	0.10	18.14	1.19	14.10	0.26	0.28
Exemptions Levels	< 5	< 5	< 5	< 10	< 10	< 10	< 25	< 10	< 25
Registration Levels	< 25	< 25	< 25	< 25	< 25	< 25	< 100	< 10	< 25
<sup>1</sup> Under the Part 70 Permit program (40 CFR 70), PM <sub>10</sub> and PM <sub>2.5</sub> , not particulate matter (PM), are each considered as a "regulated air pollutant." <sup>2</sup> PM <sub>2.5</sub> listed is direct PM <sub>2.5</sub> . <sup>3</sup> Single highest source-wide HAP. (Hexane)									

- (a) This administrative amendment will not change the registration status of the source, because the source-wide uncontrolled/unlimited potential to emit of PM, PM10, and NOx will each still be within the ranges listed in 326 IAC 2-5.5-1(b)(1) and the potential to emit of all other regulated air pollutants will each still be less than the ranges listed in 326 IAC 2-5.5-1(b)(1). Therefore, the source will still be subject to the provisions of 326 IAC 2-5.5 (Registrations).
- (b) This administrative amendment will not change the registration status of the source, because the source-wide uncontrolled/unlimited potential to emit of any single HAP will still be less than ten (10) tons per year and the uncontrolled/unlimited potential to emit of a combination of HAPs will still be less than twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-5.5 (Registrations). This source is an area source under Section 112 of the Clean Air Act (CAA).

### Federal Rule Applicability Determination

Due to this administrative amendment, federal rule applicability has been reviewed as follows:

#### **New Source Performance Standards (NSPS):**

- (a) The requirements of the New Source Performance Standard for the Phosphate Fertilizer Industry: Wet-Process Phosphoric Acid Plants, 40 CFR 60, Subpart T and 326 IAC 12, are not included in the registration for this source, because the source stores ammonia fertilizer and not phosphate fertilizer.
- (b) The requirements of the New Source Performance Standard for Ammonium Sulfate Manufacture, 40 CFR 60, Subpart PP and 326 IAC 12, are not included in the registration for this source, because the source stores ammonia fertilizer rather than manufacture ammonium sulfate.
- (c) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the registration AA.

#### **National Emission Standards for Hazardous Air Pollutants (NESHAP):**

- (a) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Phosphate Fertilizers Production Plants, 40 CFR 63, Subpart BB and 326 IAC 20-34 are not included in the registration for this source, since the source does not manufacture fertilizer nor does the source deal with phosphate fertilizer.
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (40 CFR Part 63, 326 IAC 14, and 326 IAC 20) included in the registration AA.

#### **Compliance Assurance Monitoring (CAM):**

Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is not included in the registration, because the unlimited potential to emit of the source is less than the Title V major source thresholds and the source is not required to obtain a Part 70 or Part 71 permit.

### State Rule Applicability - Entire Source

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

#### **326 IAC 2-5.5 (Registrations)**

Registration applicability is discussed under the PTE of the Entire Source After Issuance of the Registration Administrative Amendment section of this document.

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

The new/modified emission unit(s) 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 not subject to 326 IAC 2-6 (Emission Reporting), because it is not required to have an operating permit pursuant to 326 IAC 2-7 (Part 70), it is not located in one of the Lake or Porter County townships listed under 326 IAC 2-6-1(a)(2), and its potential to emit lead is less than 5 tons per year. Therefore, this rule does not apply.

#### **326 IAC 5-1 (Opacity Limitations)**

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

- (1) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (2) 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.

#### **326 IAC 6-4 (Fugitive Dust Emissions Limitations)**

The source is subject to the requirements of 326 IAC 6-4, because the paved/unpaved roads have the potential to emit fugitive particulate emissions. 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.

<b>State Rule Applicability – Individual Facilities</b>
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Due to this administrative amendment, state rule applicability has been reviewed as follows:

#### Natural Gas Fired Flare F1 and Temporary Propane Flare

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

Pursuant to 326 IAC 6-3-1(b)(14), the Flare F1 and the temporary flare are not subject to the requirements of 326 IAC 6-3, since potential emissions for particulate for both units are less than 0.551 pounds per hour.

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

Pursuant to 326 IAC 6-2-1, the flare F1 and the temporary flare are not subject to the provision of 326 IAC 6-2-4, since the two flares use direct combustion rather than indirect heating.

<b>Proposed Changes</b>
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The following changes listed below are due to the administrative amendment. Deleted language appears as ~~strikethrough~~ text and new language appears as **bold** text:

- (1) Condition A.2 was updated to add new emission units and modify existing emission units.

#### A.2 Emission Units and Pollution Control Equipment Summary

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

- (a) One (1) natural gas fired process heater, identified as PH1, constructed in 1972, with a maximum heat input rate of 29 MMBtu per hour, exhausting to stacks PH1-1 through PH1-4.
- (b) One (1) natural gas fired flare, identified as F1, constructed in 1990 **and approved in 2024 for modification**, with a maximum heat input rate of ~~0.04~~ **0.102** MMBtu per hour to the flare pilot and 4.854 MMBtu per hour to the flare assist ring, exhausting to stack F1.
- (c) One (1) cold cleaner degreasing unit, identified as D1, approved in 2015 for construction, with a maximum capacity of fifteen gallons of cleaning solvent (forty-five gallons per year).
- (d) One (1) natural gas fired emergency generator, identified as EG1, approved in 2015 for

construction, with a maximum capacity of 149 HP, using no control, and exhausting to the outdoors

- (e) **One (1) temporary propane flare, identified as TF1, approved in 2024 for construction, with a maximum capacity of 4.96 MMBtu per hour, uncontrolled, and exhausting outdoors.**

(2) Condition D.1.2 and D.1.3 was updated to remove outdated language

**D.1.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-8]**

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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 cleaner 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).

**Record Keeping and Reporting Requirements**

**D.1.3 Record Keeping Requirements**

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(a) Pursuant to 326 IAC 8-3-8(c)(2), ~~on and after January 1, 2015,~~ the following records shall be maintained for each purchase of cold cleaner degreaser solvent:

- (1) The name and address of the solvent supplier.
- (2) The date of purchase (or invoice/bill dates of contract servicer indicating service date).
- (3) The type of solvent purchased.
- (4) The total volume of the solvent purchased.
- (5) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

(b) All records required by 326 IAC 8-3-8(c)(2) shall be:

- (1) retained on-site or accessible electronically from the site for the most recent three (3) year period; and
- (2) reasonably accessible for an additional two (2) year period.

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

<b>Conclusion and Recommendation</b>
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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 May 28, 2024.

<b>IDEM Contact</b>
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- (a) If you have any questions regarding this permit, please contact Pratim Moulik, Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCM 1003, Indianapolis, Indiana 46204-2251, or by telephone at (317) 234-6871 or (800) 451-6027, and ask for Pratim Moulik or (317) 234-6871.
- (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: <https://www.in.gov/idem/airpermit/public-participation/>; and the Citizens' Guide to IDEM on the Internet at: <https://www.in.gov/idem/resources/citizens-guide-to-idem/>.



**Appendix A: Emission Summary  
Potential To Emit Summary**

**Company Name: CF Industries Distribution Facilities, LLC – Frankfort Terminal  
Source Address: 6446 W. SR 28 Frankfort, IN, 46041  
Permit Number: 023-47885-00044  
Permit Reviewer: Pratim Moulik**

Uncontrolled Potential to Emit (ton/yr)									
Emission Unit/ID	PM	PM10	PM2.5	SO2	NOx	VOC	CO	HAPs	Worst Single HAP (Hexane)
Natural Gas Combustion(Process Heater and Flare pilot)	0.28	1.11	1.11	0.09	14.58	0.80	12.25	0.28	0.26
Temporary Flare	0.05	0.17	0.17	0.01	3.08	0.24	1.78	-	-
Process Flare Fuel-Bound and Thermal NOx	-	-	-	-	0.39	-	-	-	-
Fugitive Dust Paved Roads	7.73	1.55	0.38	-	-	-	-	-	-
Fugitive Dust Unpaved Roads	15.74	4.20	0.42	-	-	-	-	-	-
Degreasing	-	-	-	-	-	0.15	-	6.64E-06	-
Natural Gas Emergency Generator	7.15E-04	9.00E-04	9.00E-04	1.10E-05	0.08	2.24E-03	0.07	1.51E-03	2.05E-05
<b>Total</b>	<b>23.80</b>	<b>7.02</b>	<b>2.07</b>	<b>0.10</b>	<b>18.14</b>	<b>1.19</b>	<b>14.10</b>	<b>0.28</b>	0.26

**Appendix A: Emissions Calculations  
Modification**

Company Name: CF Industries Distribution Facilities, LLC – Frankfort Terminal  
Source Address: 6446 W. SR 28 Frankfort, IN, 46041  
Permit Number: 023-47885-00044  
Permit Reviewer: Pratim Moulik

Uncontrolled Potential to Emit of New and Modified Units (tons/year)										
Emission Unit		PM	PM <sub>10</sub>	PM <sub>2.5</sub> *	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	Combined HAPs	Single HAP (Hexane)
<b>New Units</b>										
Temporary Flare		0.05	0.17	0.17	0.01	3.08	0.24	1.78	-	-
<i>PTE of New Units</i>		<i>0.05</i>	<i>0.17</i>	<i>0.17</i>	<i>0.01</i>	<i>3.08</i>	<i>0.24</i>	<i>1.78</i>	<i>0.00</i>	<i>0.00</i>
<b>Modified Units</b>										
Flare F1 Combustion Before	Before	8.16E-05	3.26E-04	3.26E-04	2.58E-05	4.29E-03	2.36E-04	3.61E-03	8.10E-05	7.73E-05
Flare F1 Combustion After	After	8.32E-04	3.33E-03	3.33E-03	2.63E-04	0.04	2.41E-03	0.04	8.30E-04	7.90E-04
<i>PTE Increase</i>		<i>7.50E-04</i>	<i>3.00E-03</i>	<i>3.00E-03</i>	<i>2.37E-04</i>	<i>0.04</i>	<i>2.17E-03</i>	<i>0.04</i>	<i>7.49E-04</i>	<i>7.13E-04</i>
<b>Total PTE Increase (tons/year):</b>		<b>0.05</b>	<b>0.17</b>	<b>0.17</b>	<b>0.01</b>	<b>3.12</b>	<b>0.24</b>	<b>1.81</b>	<b>7.49E-04</b>	<b>7.13E-04</b>

\*PM<sub>2.5</sub> listed is direct PM<sub>2.5</sub>

**Appendix A: Emission Calculations  
Reciprocating Internal Combustion Engines - Natural Gas  
Worst Case Potential to Emit**

**Company Name:** CF Industries Distribution Facilities, LLC – Frankfort Terminal  
**Source Address:** 6446 W. SR 28 Frankfort, IN, 46041  
**Permit Number:** 023-47885-00044  
**Permit Reviewer:** Pratim Moulik

Emissions	HP
EG1	149

Maximum Output Horsepower Rating (hp)	149
Brake Specific Fuel Consumption (BSFC) (Btu/hp-hr)	500
Maximum Hours Operated per Year (hr/yr)	500
Potential Fuel Usage (MMBtu/yr)	37
High Heat Value (MMBtu/MMscf)	1020
Potential Fuel Usage (MMcf/yr)	0.04

Criteria Pollutants	Pollutant						
	PM*	PM10*	PM2.5*	SO2	NOx	VOC	CO
Emission Factor (lb/MMBtu)	3.84E-02	4.83E-02	4.83E-02	5.88E-04	4.08E+00	1.20E-01	3.72E+00
Potential Emissions (tons/yr)	7.15E-04	9.00E-04	9.00E-04	1.10E-05	7.60E-02	2.24E-03	6.93E-02

\*PM emission factor is for filterable PM-10. PM10 emission factor is filterable PM10 + condensable PM.  
 PM2.5 emission factor is filterable PM2.5 + condensable PM.

**Hazardous Air Pollutants (HAPs)**

Pollutant	Emission	Potential
Acetaldehyde	8.36E-03	1.56E-04
Acrolein	7.78E-03	1.45E-04
Benzene	1.94E-03	3.61E-05
1,3-Butadiene	8.20E-04	1.53E-05
Ethylbenzene	1.08E-04	2.01E-06
Formaldehyde	5.52E-02	1.03E-03
Methanol	3.06E-03	5.70E-05
Methylene Chloride	1.47E-04	2.74E-06
Hexane	1.10E-03	2.05E-05
Toluene	9.63E-04	1.79E-05
2,2,4-Trimethylpentane	8.46E-04	1.58E-05
Total PAH**	1.41E-04	2.63E-06
Biphenyl	2.12E-04	3.95E-06
Xylene	1.95E-04	3.63E-06
<b>Total</b>		<b>1.51E-03</b>

HAP pollutants consist of the twelve highest HAPs included in AP-42 Table 3.2-1.

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

**Methodology**

Emission Factors are from AP-42 (Supplement F, July 2000), Table 3.2-1

Potential Fuel Usage (MMBtu/yr) = [Maximum Output Horsepower Rating (hp)] \* [Brake Specific Fuel Consumption (Btu/hp-hr)] \* [Maximum Hours Operated per Year (hr/yr)] / [1000000 Btu/MMBtu]

Potential Emissions (tons/yr) = [Potential Fuel Usage (MMBtu/yr)] \* [Emission Factor (lb/MMBtu)] / [2000 lb/ton]

**Appendix A: Emissions Calculations**  
**Natural Gas Combustion ( ≤ 100 MMBtu/hr)**

**Company Name: CF Industries Distribution Facilities, LLC – Frankfort Terminal**  
**Source Address: 6446 W. SR 28 Frankfort, IN, 46041**  
**Permit Number: 023-47885-00044**  
**Permit Reviewer: Pratim Moulik**

Combustion unit	ID	Heat Input Capacity
process heater	PH1	29
flare	F1	0.102
Flare Assist Ring (emergency use only)	F1-AR	4.854

Heat Input Capacity MMBtu/hr	HHV mmBtu mmscf	Potential Throughput MMCF/yr
33.96	1020	2.92E+02

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	0.28	1.11	1.11	0.09	**see below	0.80	12.25

\*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

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

**Hazardous Air Pollutants (HAPs)**

	HAPs - 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	3.1E-04	1.7E-04	1.1E-02	2.6E-01	5.0E-04

	HAPs - 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	7.3E-05	1.6E-04	2.0E-04	5.5E-05	3.1E-04

<b>Potential Emission of Combined HAPs (tons/yr)</b>	<b>2.8E-01</b>
<b>Potential Emission of Highest Single HAP (tons/yr)</b>	<b>2.6E-01</b> Hexane

**Methodology**

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: Emissions Calculations**  
**LPG-Propane - Temporary Flare**  
 (Heat input capacity: > 10 MMBtu/hr and < 100 MMBtu/hr)

**Company Name:** CF Industries Distribution Facilities, LLC – Frankfort Terminal  
**Source Address:** 6446 W. SR 28 Frankfort, IN, 46041  
**Permit Number:** 023-47885-00044  
**Permit Reviewer:** Pratim Moulik

Heat Input Capacity MMBtu/hr****	Potential Throughput kgals/year	SO2 Emission factor = 0.10 x S
4.96	474.5	S = Sulfur Content = 0.54 grains/100ft <sup>3</sup>

	Pollutant						
	PM*	PM10*	direct PM2.5**	SO2	NOx	VOC	CO
Emission Factor in lb/kgal***	0.2	0.7	0.7	0.054 (0.10S)	13.0	1.0 **TOC value	7.5
Potential Emission in tons/yr	0.05	0.17	0.17	0.0128	3.08	0.24	1.78

\*PM emission factor is filterable PM only. PM emissions are stated to be all less than 10 microns in aerodynamic equivalent diameter, footnote in Table 1.5-1, therefore PM10 is based on the filterable and condensable PM emission factors.

\*\* No direct PM2.5 emission factor was given. Direct PM2.5 is a subset of PM10. If one assumes all PM10 to be all direct PM2.5, then a worst case assumption of direct PM2.5 can be made.

\*\*\*The VOC value given is TOC. The methane emission factor is 0.2 lb/kgal.

\*\*\*\*Emissions factors for direct fired propane combustion heating units were not found. Emissions factors for propane fired boilers were used. MMBtu is a conservative estimate of the temp flare and temp assist ring\*\*\*\*

**Appendix A: Emission Calculations  
Process Flare Fuel-Bound and Thermal NOx**

**Company Name: CF Industries Distribution Facilities, LLC – Frankfort Terminal  
Source Address: 6446 W. SR 28 Frankfort, IN, 46041  
Permit Number: 023-47885-00044  
Permit Reviewer: Pratim Moulik**

Ammonia Vapor Flaring Rate:	48,000 lbs/day
*Fuel-bound NOx Rate:	0.5 % ammonia vapor
*Thermal Nox Rate:	0.06 lbs NOx/MMBTu
Ammonia Heating Value	8037 Btu/lb ammonia vapor

Fuel-bound NOx Emissions: 48,000 lbs/day x 0.5 % ammonia vapor x 3 days/yr** x 1 ton/2000lbs =	0.36 tons/yr
---	--------------

Thermal NOx Emissions: 48,000 lbs/day x 8037 Btu/lb x 1MMBTu/10 <sup>6</sup> Btu x 0.06 lbs NOx/MMBTu x 3 days/yr** x 1ton/2000 lbs =	0.03 tons/yr
---	--------------

Total Fuel-bound Nox Emissions + Thermal Nox Emissions:	<b>0.39 tons/yr</b>
---	---------------------

\*Values were provided by the flare vendor and are consistent with values found in "Air Permit Technical Guidance for Chemical Sources: Flares and Oxidizers" from the Texas Natural Resources Conservation Commission (October 2000, RG-109 draft).

\*\*Historical data indicates the flare would only combust 3 days out of the year.

**Appendix A  
Emissions Calculations from Solvent Cleaning**

**Company Name: CF Industries Distribution Facilities, LLC – Frankfort Terminal  
Source Address: 6446 W. SR 28 Frankfort, IN, 46041  
Permit Number: 023-47885-00044  
Permit Reviewer: Pratim Moulik**

Location	Material	Density (Lb/Gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Max Gal of Mat. Added (gal/yr)	Waste Material (gal/yr)	Pounds VOC per gallon of solvent less water	Pounds VOC per gallon of solvent	Potential VOC tons per year
Building 1500-Machine Shop Parts Washers	Safety Kleen Solvent	6.70	100.00%	0.0%	100.0%	0.0%	45.00	0.00	6.70	6.70	0.15
<b>Total Potential Emissions (tons/yr)</b>											<b>0.15</b>

**METHODOLOGY**

Pounds of VOC per Gallon Solvent less Water = (Density (lb/gal) \* Weight % Organics) / (1-Volume % water)

Pounds of VOC per Gallon Solvent = (Density (lb/gal) \* Weight % Organics)

Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) \* (Max Gal of Material (gal/yr) - Waste Material (gal/yr)) \* (1 ton/2000 lbs)

**HAP Emission Calculations**

Location	Material	Density (Lb/Gal)	Max Gal of Material (gal/yr)	Waste Material (gal/yr)	Weight % Benzene	Weight % 1,2-Epoxybutane	Weight % p-dichloro benzene	Weight % Toluene	Weight % Xylene	Benzene Emissions (tons/yr)	1,2-Epoxybutane Emissions (tons/yr)	p-dichloro benzene Emissions (tons/yr)	Toluene Emissions (tons/yr)	Xylene Emissions (tons/yr)
Building 1500-Machine Shop Parts Washers	Safety Kleen Solvent	6.70	45.00	0.00	0.00005%	0.00%	0.001%	0.004%	0.00%	7.43E-08	0.00E+00	9.38E-07	5.63E-06	0.00E+00

**METHODOLOGY**

HAPS emission rate (tons/yr) = Density (lb/gal) \* Max Gal of Material (gal/yr) \* Weight % HAP \* 1 ton/2000 lbs

<b>Potential HAP Emissions (tons/yr)</b>	<b>7.43E-08</b>	<b>0.00E+00</b>	<b>9.38E-07</b>	<b>5.63E-06</b>	<b>0.00E+00</b>
<b>Combined HAPs (tons/yr)</b>	<b>6.64E-06</b>				

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

Company Name: CF Industries Distribution Facilities, LLC – Frankfort Terminal  
 Source Address: 6446 W. SR 28 Frankfort, IN, 46041  
 Permit Number: 023-47885-00044  
 Permit Reviewer: Pratim Moulik

**Unpaved Roads at Industrial Site**

The following calculations determine the amount of emissions created by unpaved roads, based on 8,760 hours of use and AP-42, Ch 13.2.2 (11/2006).

Vehicle Information (provided by source)

Type	Maximum number of vehicles	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)
Ammonia Truck (Unloaded)	142.0	1.0	142.0	19.5	2769.0	453	0.086	12.2	4446.8
Ammonia Truck (loaded)	142.0	1.0	142.0	40.0	5680.0	123	0.023	3.3	1207.4
<b>Totals</b>			<b>284.0</b>		<b>8449.0</b>			<b>15.5</b>	<b>5654.2</b>

Average Vehicle Weight Per Trip = 29.8 tons/trip  
 Average Miles Per Trip = 0.05 miles/trip

Unmitigated Emission Factor,  $E_f = k \cdot [(s/12)^a] \cdot [(W/3)^b]$  (Equation 1a from AP-42 13.2.2)

	PM	PM10	PM2.5	
where k =	4.9	1.5	0.15	lb/mi = particle size multiplier (AP-42 Table 13.2.2-2 for Industrial Roads)
s =	6.0	6.0	6.0	% = mean % silt content of unpaved roads (AP-42 Table 13.2.2-1 Iron and Steel Production)
a =	0.7	0.9	0.9	= constant (AP-42 Table 13.2.2-2 for Industrial Roads)
W =	29.8	29.8	29.8	tons = average vehicle weight
b =	0.45	0.45	0.45	= constant (AP-42 Table 13.2.2-2 for Industrial Roads)

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor,  $E_{ext} = E_f \cdot [(365 - P)/365]$  (Equation 2 from AP-42 13.2.2)

Mitigated Emission Factor,  $E_{ext} = E_f \cdot [(365 - P)/365]$   
 where P = 125 days of rain greater than or equal to 0.01 inches (see Fig. 13.2.2-1)

	PM	PM10	PM2.5	
Unmitigated Emission Factor, $E_f =$	8.47	2.26	0.23	lb/mile
Mitigated Emission Factor, $E_{ext} =$	5.57	1.48	0.15	lb/mile

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)
Vehicle (entering plant) (one-way trip)	12.38	3.30	0.33
Vehicle (leaving plant) (one-way trip)	3.36	0.90	0.09
<b>Totals</b>	<b>15.74</b>	<b>4.20</b>	<b>0.42</b>

**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)]  
 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 = Particulate Matter (<2.5 um)  
 PTE = Potential to Emit



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

**Company Name: CF Industries Distribution Facilities, LLC – Frankfort Terminal  
Source Address: 6446 W. SR 28 Frankfort, IN, 46041  
Permit Number: 023-47885-00044  
Permit Reviewer: Pratim Moulk**

**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)
Ammonia Trucks (unloaded 1 way)	1.0	142.0	142.0	19.5	2769.0	320	0.061	8.6	3141.2
Ammonia Trucks (loaded 1 way)	1.0	142.0	142.0	40.0	5680.0	320	0.061	8.6	3141.2
Employee Vehicles (one way) in	1.0	6.0	6.0	2.0	12.0	215	0.041	0.2	89.2
Employee Vehicles (one way) out	1.0	6.0	6.0	2.0	12.0	215	0.041	0.2	89.2
Contractor in	1.0	10.0	10.0	2.0	20.0	215	0.041	0.4	148.6
Contractor Out	1.0	10.0	10.0	2.0	20.0	215	0.041	0.4	148.6
<b>Totals</b>			<b>316.0</b>		<b>8513.0</b>			<b>18.5</b>	<b>6758.0</b>

Average Vehicle Weight Per Trip = 

26.9
------

 tons/trip  
Average Miles Per Trip = 

0.06
------

 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 =	26.9	26.9	26.9	tons = average vehicle weight
sL =	9.7	9.7	9.7	g/m <sup>3</sup> 2 = silt loading value for paved roads at iron and steel production facilities - Table 13.2.1-3)

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 = 

125
-----

 days of rain greater than or equal to 0.01 inches (see Fig. 13.2.1-2)  
N = 

365
-----

 days per year

	PM	PM10	PM2.5	
Unmitigated Emission Factor, Ef =	2.502	0.500	0.1228	lb/mile
Mitigated Emission Factor, Eext =	2.288	0.458	0.1123	lb/mile

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)
Ammonia Trucks (unloaded 1 way)	3.59	0.72	0.18
Ammonia Trucks (loaded 1 way)	3.59	0.72	0.18
Employee Vehicles (one way) in	0.10	0.02	0.01
Employee Vehicles (one way) out	0.10	0.02	0.01
Contractor in	0.17	0.03	0.01
Contractor Out	0.17	0.03	0.01
<b>Totals</b>	<b>7.73</b>	<b>1.55</b>	<b>0.38</b>

**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



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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**Eric J. Holcomb**  
Governor

**Brian C. Rockensuess**  
Commissioner

## SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

TO: Ryan Kahn  
CF Industries Distribution Facilities, LLC – Frankfort Terminal  
2375 Waterview Drive  
Northbrook, IL 60062

DATE: June 26, 2024

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

SUBJECT: Final Decision  
Registration Administrative Amendment  
023-47885-00044

This notice is to inform you that a final decision has been issued for the air permit application referenced above.

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. In addition, the Notice of Decision has been sent to the OAQ Permits Branch Interested Parties List and, if applicable, the Consultant/Agent and/or Responsible Official/Authorized Individual.

**The final decision and supporting materials are available electronically;** the original signature page is enclosed for your convenience. The final decision and supporting materials available electronically at:

**IDEM's online searchable database:** <http://www.in.gov/apps/idem/caats/> . Choose Search Option **by Permit Number**, then enter permit 47885

and

**IDEM's Virtual File Cabinet (VFC):** <https://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.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, or have difficulty accessing the documents online, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at [jbrush@idem.IN.gov](mailto:jbrush@idem.IN.gov).

Final Applicant Cover Letter 8/20/20-acces via website



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Eric J. Holcomb  
Governor

Brian C. Rockensuess  
Commissioner

**June 26, 2024**

**CF Industries Distribution Facilities, LLC – Frankfort Terminal  
023-47885-00044**

To: Interested Parties

This notice is to inform you that a final decision has been issued for the air permit application referenced above. This notice is for informational purposes only. You are not required to take any action.

You are receiving this notice because you asked to be on IDEM's notification list for this company and/or county; or because your property is nearby the company being permitted; or because you represent a local/regional government entity.

The enclosed Notice of Decision Letter provides additional information about the final permit decision.

The final decision and supporting materials 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 47885

and

IDEM's Virtual File Cabinet (VFC): <https://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.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit.

**Please Note:** *If you 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](mailto: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  
Final Interested Parties Cover Letter 10/13/2023

# Mail Code 61-53

IDEM Staff	JJACKSON 6/26/2024 CF Industries Distribution Facilities LLC Frankfort Terminal 023-47885-00044 (final)		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:  <b>CERTIFICATE OF MAILING ONLY</b>	

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		Ryan Kahn CF Industries Distribution Facilities LLC Frankfor 2375 Waterview Dr Northbrook IL 60062 (Source CAATS) Sent Via UPS Campus Ship										
2		Frankfort City Council and Mayors Office 301 E Clinton St Frankfort IN 46041 (Local Official)										
3		Clinton County Health Department 1234 Rossville Ave, Ste B Frankfort IN 46041 (Health Department)										
4		Clinton County Board of Commissioners 125 Courthouse Square Frankfort IN 46041-1942 (Local Official)										
5												
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15												

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See <b>Domestic Mail Manual R900, S913, and S921</b> for limitations of coverage on inured and COD mail. See <b>International Mail Manual</b> for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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