

From: [MCQUIGG, DONALD](#)
To: [JACKSON, DWANA](#)
Cc: [MCQUIGG, DONALD](#)
Subject: U.S. Census Bureau 019-47834-00165: Source address correction
Date: Wednesday, May 15, 2024 4:25:40 PM
Attachments: [image002.png](#)
[image003.png](#)

The source address in the application did not match source address in existing permits. The source consultant verified that the source address in the application is correct and the address in the existing permit is invalid.

Donald,

Please see an electronic copy of the application calculations attached.

Building 63-B is the correct source address.

A hard copy of the application was mailed to the library via first class mail on Friday, May 10, 2024.

Please let me know if you have any other questions.

Thanks!

Geoffrey Bright
Consultant
317-496-2444
geoffrey.bright@trinityconsultants.com

Therefore, the complete source address is:
1201 East Tenth Street, Building 63-B
Jeffersonville, IN 47132



Donald McQuigg
Environmental Manager
Office of Air Quality, Permits Branch
Indiana Department of Environmental Management

(317) 234-4240 • dmcquigg@idem.IN.gov

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From: [David M Reynolds \(CENSUS/NPC FED\)](#)
To: [MCQUIGG, DONALD](#); geoffrey.bright@trinityconsultants.com
Cc: [Vincent J Biller III \(CENSUS/NPC FED\)](#); [Jack E Cleveland \(CENSUS/NPC FED\)](#)
Subject: Re: Applicant Review for MSOP Renewal No. M019-47834-00165 for U.S. Census Bureau
Date: Friday, June 21, 2024 9:26:12 AM
Attachments: [image002.png](#)
[image003.png](#)
[47834calcs.xlsx](#)
[47834per.docx](#)
[47834tsd.docx](#)

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Dear Donald,

I took a look at the attached documents and had a couple of questions.

1, Section A.2 (d)

I believe this should be Eight (8) natural Gas-fired pieces of cooking equipment. When we first applied for the 1st permit we had a Natural gas-fired steamer. It was never installed and eventually sent back.

2, Section D.1.1

Bldg. 62 Boiler 3 is still listed. Should it be removed?

3, If the changes need to be made, would that also need corrected in the **TSD** document?

Bldg. 62 Boiler 3 is listed on page 1.

David M. Reynolds
Facility Maintenance
U.S Census Bureau NPC
1201 E. 10th St.
Jeffersonville, IN 47132-0001
Office # 812-218-2186
Fax # 812-218-2086

From: MCQUIGG, DONALD <DMCQUIGG@idem.IN.gov>

Sent: Wednesday, June 12, 2024 11:46 AM

To: David M Reynolds (CENSUS/NPC FED) <david.m.reynolds@census.gov>;
geoffrey.bright@trinityconsultants.com <geoffrey.bright@trinityconsultants.com>

Cc: MCQUIGG, DONALD <DMCQUIGG@idem.IN.gov>

Subject: Applicant Review for MSOP Renewal No. M019-47834-00165 for U.S. Census Bureau

You don't often get email from dmcquigg@idem.in.gov. [Learn why this is important](#)

Dear Geoffrey Bright,
Dear David M. Reynolds,

Attached is the draft MSOP Renewal and supporting documents for review. As a courtesy, this draft is being provided to you for an opportunity to review and provide comments prior to posting the public notice on IDEM's website. This supplemental step of providing you

with the draft permit does not take away your legal right to provide comments during the thirty (30) day comment period.

The time clock for MSOP Renewal No.: M019-47834-00165 will be stopped during your review until you either provide comments or indicate that you do not have any comments. Due to permit accountability and IDEM's intention to public notice the permit in a timely manner, you are being allotted two (2) weeks from today to provide comments in writing, email is sufficient. If you have any conflicts or special circumstances that would impede your review process during the time allotted, please notify me directly at the email address or phone number listed below as soon as possible. If you have not responded on or before June 26, 2024, IDEM will assume that you have no comments pertaining to this draft and all files will be forwarded for public notice.

During this review period, I will be available to address your concerns, answer any questions that you may have, or make necessary revisions to this draft.

Please send a reply email to me immediately confirming that you have received this draft version of the permit for review and that you are able to access these files in their current format.

The following documents are not included in this review but will be included during the public notice period:

- 40 CFR 60, Subpart Dc
- 40 CFR 60, Subpart IIII
- 40 CFR 63, Subpart ZZZZ

Pursuant to 326 IAC 2-1.1-7, the fee for this permitting action is expected to be \$100, which is based on the following:

\$100	MSOP Renewal
-------	--------------

Please note: This is not a bill. This represents the anticipated fee and is subject to change if additional review is required or the permit level changes for some reason (e.g. an additional NESHAP review is required). You will receive a final bill from the OAQ Permits Administration and Support Section.

Sincerely,



Donald McQuigg
Environmental Manager
Office of Air Quality, Permits Branch
Indiana Department of Environmental Management

(317) 234-4240 • dmcquigg@idem.IN.gov

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IDEM values your feedback





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

Brian C. Rockensuess
Commissioner

Minor Source Operating Permit Renewal OFFICE OF AIR QUALITY

**U.S. Census Bureau
1201 East Tenth Street, Building 63-B
Jeffersonville, Indiana 47132**

(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.

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

Indiana statutes from IC 13 and rules from 326 IAC, quoted 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 MSOP under 326 IAC 2-6.1.

Operation Permit No.: M019-47834-00165	
Master Agency Interest ID: 124171	
Issued by:	Issuance Date:
Office of Air Quality	Expiration Date:

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- Attachment B: 40 CFR Part 60, Subpart IIII, Stationary Compression Ignition Internal Combustion Engines
- Attachment C: 40 CFR Part 63, Subpart ZZZZ, Stationary Reciprocating Internal Combustion Engines (RICE)

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 and A.2 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 2-5.1-3(c)][326 IAC 2-6.1-4(a)]

The Permittee owns and operates a stationary national processing center operation.

Source Address:	1201 East Tenth Street, Building 63-B, Jeffersonville, Indiana 47132
General Source Phone Number:	(812) 218-2186
SIC Code:	8744 (Facilities Support Management Services)
County Location:	Clark
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

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 boiler, identified as Bldg 62 Boiler 1, constructed in 1989, with a nominal heat input capacity of 20.92 MMBtu/hr, using no control, and exhausting outdoors.

[Under NSPS, Subpart Dc, Bldg 62 Boiler 1 is considered an affected facility.]
- (b) One (1) natural gas-fired boiler, identified as Bldg 62 Boiler 2, constructed in 2018, with a nominal heat input capacity of 21.0 MMBtu/hr, using no control, and exhausting outdoors.

[Under NSPS, Subpart Dc, Bldg 62 Boiler 2 is considered an affected facility.]
- (c) Three (3) natural gas-fired boilers including the following:
 - (1) Bldg 63 Cafe Water Boiler, constructed in 2002, with a nominal heat input capacity of 0.37 MMBtu/hr, using no control, and exhausting indoors.
 - (2) Bldg 91 Boiler, constructed in 2012, with a nominal heat input capacity of 1.0 MMBtu/hr, using no control, and exhausting indoors.
- (d) Nine (9) natural gas-fired cooking operations including the following:
 - (1) One (1) gas griddle, constructed in 2019, with a nominal heat input capacity of 0.14 MMBtu/hr, using no control, and exhausting indoors.
 - (2) One (1) gas range, constructed in 2019, with a nominal heat input capacity of 0.18 MMBtu/hr, using no control, and exhausting indoors.
 - (3) Two (2) natural gas-fired ovens, constructed in 2019, each with a nominal heat input capacity of 0.12 MMBtu/hr, using no control, and exhausting indoors.
 - (4) Four (4) natural gas-fired fryers, constructed in 2019, each with a nominal heat input capacity of 0.12 MMBtu/hr, using no control, and exhausting indoors.

- (e) Four (4) diesel-fired large emergency generators including the following:
 - (1) Bldg 60 Generator, constructed before 2006, with an engine rating of 1,642 hp, using no control, and exhausting outdoors.
 - (2) Bldg 61 Generator, constructed in 2010, with an engine rating of 2,220 hp, using no control, and exhausting outdoors.

[Under NSPS, Subpart IIII, Bldg 61 Generator is considered an affected facility.]
[Under NESHAP, Subpart ZZZZ, Bldg 61 Generator is considered an affected source.]
 - (3) Bldg 63 Generator, constructed before 2006, with an engine rating of 1,232 hp, using no control, and exhausting outdoors.
 - (4) Bldg 64 Generator, constructed before 2006, with an engine rating of 1,642 hp, using no control, and exhausting outdoors.
- (f) Two (2) diesel-fired small emergency generators including the following:
 - (1) Bldg 62 Generator, constructed before 2006, with an engine rating of 246 hp, using no control, and exhausting outdoors.
 - (2) Security Building Generator, constructed before 2006, with an engine rating of 90 hp, using no control, and exhausting outdoors.
- (g) One (1) diesel fuel storage tank, identified as Tank #1, constructed in 2000, with a maximum storage capacity of 500 gallons, using no controls, and exhausting to the atmosphere.
- (h) One (1) MIG/TIG welding station, with a maximum capacity of 0.017 pounds of electrode per hour, using no control, and exhausting indoors.
- (i) One (1) printing operation, with a maximum material usage of 0.0028 gallons per hour, using no control, and exhausting indoors.
- (j) Paved roads and parking lots with public access.

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-1.1-1]

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 2-1.1-1) shall prevail.

B.2 Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

-
- (a) This permit, M019-47834-00165, is issued for a fixed term of ten (10) 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, 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

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

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

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

B.7 Duty to Provide Information

-
- (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.

B.8 Annual Notification [326 IAC 2-6.1-5(a)(5)]

-
- (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 permit.

- (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, Indiana 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.9 Preventive Maintenance Plan [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 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.

- (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.10 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to M019-47834-00165 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 permit.

B.11 Termination of Right to Operate [326 IAC 2-6.1-7(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 one hundred twenty (120) days prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-6.1-7.

B.12 Permit Renewal [326 IAC 2-6.1-7]

- (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 2-6.1-7. Such information shall be included in the application for each emission unit at this source. The renewal application does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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 one hundred twenty (120) days 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 2-6.1 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 2-6.1-4(b), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.13 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-6.1-6 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
- (c) The Permittee shall notify the OAQ no later than thirty (30) calendar days of implementing an administrative amendment. [326 IAC 2-6.1-6(d)]

B.14 Source Modification Requirement

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

**B.15 Inspection and Entry
[326 IAC 2-5.1-3(e)(4)(B)][326 IAC 2-6.1-5(a)(4)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]**

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 permitted 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, at reasonable times, 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, at reasonable times, 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, at reasonable times, 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.16 Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]

- (a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 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

The application which shall be submitted by the Permittee does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request.
[326 IAC 2-6.1-6(d)(3)]

B.17 Annual Fee Payment [326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees due no later than thirty (30) calendar days of receipt of a bill from IDEM, OAQ.
- (b) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-8590 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.18 Credible Evidence [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.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

C.2 Permit Revocation [326 IAC 2-1.1-9]

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

- (a) Violation of any conditions of this permit.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.
- (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 permit shall not require revocation of this permit.
- (d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.
- (e) For any cause which establishes, in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article.

C.3 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.4 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.5 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.6 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).

C.7 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;
 - (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(c).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(d).

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.

- (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 2-6.1-5(a)(2)]

C.8 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

no later than thirty-five (35) days prior to the intended test date.

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date.
- (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.9 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 2-6.1-5(a)(2)]

C.10 Compliance Monitoring [326 IAC 2-1.1-11]

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. All monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

C.11 Instrument Specifications [326 IAC 2-1.1-11]

- (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 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

C.12 Response to Excursions or Exceedances

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.
- (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

- (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.

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

C.14 Malfunctions Report [326 IAC 1-6-2]

Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

- (a) A record of all malfunctions, startups or shutdowns of any emission unit or emission control equipment, that results in violations of applicable air pollution control regulations or applicable

emission limitations must be kept and retained for a period of three (3) years and be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.

- (b) When a malfunction of any emission unit or emission control equipment occurs that lasts more than one (1) hour, the condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification must be made by telephone or other electronic means, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of the occurrence.
- (c) Failure to report a malfunction of any emission unit or emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information on the scope and expected duration of the malfunction must be provided, including the items specified in 326 IAC 1-6-2(c)(3)(A) through (E).
- (d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.15 General Record Keeping Requirements [326 IAC 2-6.1-5]

- (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. 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 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

- (a) Reports required by conditions in Section D of 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
- (b) 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.
- (c) 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.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) One (1) natural gas-fired boiler, identified as Bldg 62 Boiler 1, constructed in 1989, with a nominal heat input capacity of 20.92 MMBtu/hr, using no control, and exhausting outdoors.

[Under NSPS, Subpart Dc, Bldg 62 Boiler 1 is considered an affected facility.]
- (b) One (1) natural gas-fired boiler, identified as Bldg 62 Boiler 2, constructed in 2018, with a nominal heat input capacity of 21.0 MMBtu/hr, using no control, and exhausting outdoors.

[Under NSPS, Subpart Dc, Bldg 62 Boiler 2 is considered an affected facility.]
- (c) Three (3) natural gas-fired boilers including the following:
 - (1) Bldg 63 Cafe Water Boiler, constructed in 2002, with a nominal heat input capacity of 0.37 MMBtu/hr, using no control, and exhausting indoors.
 - (2) Bldg 91 Boiler, constructed in 2012, with a nominal heat input capacity of 1.0 MMBtu/hr, using no control, and exhausting indoors.

(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 2-6.1-5(a)(1)]

D.1.1 Particulate Emissions [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating), the PM emissions from the following units shall be limited to Pt pounds per MMBtu heat input, specified as follows:

Facility	Pt (lb/MMBtu)
Bldg 62 Boiler 1	0.49
Bldg 62 Boiler 3	0.36
Bldg 63 Cafe Water Boiler	0.36
Bldg 91 Boiler	0.36
Bldg 62 Boiler 2	0.34

D.1.2 Preventive Maintenance Plan [326 IAC 1-6-3]

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

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (h) One (1) diesel storage tank, identified as Tank #1, constructed in 2000, with a maximum storage capacity of 500 gallons, using no controls, and exhausting to the atmosphere.

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

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

D.2.1 Record Keeping Requirement

-
- (a) Pursuant to 326 IAC 8-9, the owner or operator of the diesel storage tank, identified as Tank #1, shall keep all records required by this section for three (3) years unless specified otherwise. Records required by subsection (b) must be maintained for the life of the vessel.
- (b) The owner or operator of the diesel storage tank, identified as Tank #1, shall maintain a record and submit to IDEM, OAQ a report containing the following information for each vessel:
- (1) The vessel identification number;
 - (2) The vessel dimensions; and
 - (3) The vessel capacity.
- (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:

- (a) One (1) natural gas-fired boiler, identified as Bldg 62 Boiler 1, constructed in 1989, with a nominal heat input capacity of 20.92 MMBtu/hr, using no control, and exhausting outdoors.

[Under NSPS, Subpart Dc, Bldg 62 Boiler 1 is considered an affected facility.]

- (b) One (1) natural gas-fired boiler, identified as Bldg 62 Boiler 2, constructed in 2018, with a nominal heat input capacity of 21.0 MMBtu/hr, using no control, and exhausting outdoors.

[Under NSPS, Subpart Dc, Bldg 62 Boiler 2 is considered an affected facility.]

(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 2-6.1-5(a)(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

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 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) 60.40c(a), (b)
(2) 60.41c
(3) 60.48c(a), (a)(1)-(4), (f), (f)(4), (f)(4)(i)-(iii), (g)(2)

SECTION E.2

NSPS

Emissions Unit Description:

- (f) Four (4) diesel-fired large emergency generators including the following:
 - (2) Bldg 61 Generator, constructed in 2010, with an engine rating of 2,220 hp, using no control, and exhausting outdoors.

[Under NSPS, Subpart IIII, Bldg 61 Generator is considered an affected facility.]
[Under NESHAP, Subpart ZZZZ, Bldg 61 Generator is considered an affected source.]

(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 2-6.1-5(a)(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 IIII.

- (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.2.2 Stationary 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, for the emission unit(s) listed above:

- (1) 40 CFR 60.4200(a)(2)(i)
- (2) 40 CFR 60.4205(b)
- (3) 40 CFR 60.4206
- (4) 40 CFR 60.4207(a), (b)
- (5) 40 CFR 60.4208
- (6) 40 CFR 60.4209(a)
- (7) 40 CFR 60.4211(a), (c), (f)(1), (f)(2)(i), (g)
- (8) 40 CFR 60.4214(b)
- (9) 40 CFR 60.4218
- (10) 40 CFR 60.4219
- (11) Table 8

SECTION E.3

NESHAP

Emissions Unit Description:

- (f) Four (4) diesel-fired large emergency generators including the following:
- (2) Bldg 61 Generator, constructed in 2010, with an engine rating of 2,220 hp, using no control, and exhausting outdoors.
- [Under NSPS, Subpart IIII, Bldg 61 Generator is considered an affected facility.]
[Under NESHAP, Subpart ZZZZ, Bldg 61 Generator is considered an affected source.]

(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 2-6.1-5(a)(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

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.3.2 Stationary Reciprocating Internal Combustion Engines (RICE) 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, for the emission unit(s) listed above:

- (1) 40 CFR 63.6580
(2) 40 CFR 63.6585(a), (c)
(3) 40 CFR 63.6590(a)(2)(iii), (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**

**MINOR SOURCE OPERATING PERMIT
ANNUAL NOTIFICATION**

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

Company Name:	U.S. Census Bureau
Source Address:	1201 East Tenth Street, Building 63-B
City:	Jeffersonville, Indiana 47132
Phone #:	(812) 218-2186
MSOP #:	M019-47834-00165

I hereby certify that U.S. Census Bureau is:

still in operation.

no longer in operation.

I hereby certify that U.S. Census Bureau is:

in compliance with the requirements of MSOP M019-47834-00165.

not in compliance with the requirements of MSOP M019-47834-00165.

Authorized Individual (typed):	
Title:	
Signature:	Date:
Email Address:	Phone:

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.

Noncompliance:

MALFUNCTION REPORT

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
FAX NUMBER: (317) 233-6865

This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6.

THIS FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE IT HAS POTENTIAL TO EMIT 25 TONS/YEAR PARTICULATE MATTER ? _____, 25 TONS/YEAR SULFUR DIOXIDE ? _____, 25 TONS/YEAR NITROGEN OXIDES? _____, 25 TONS/YEAR VOC ? _____, 25 TONS/YEAR HYDROGEN SULFIDE ? _____, 25 TONS/YEAR TOTAL REDUCED SULFUR ? _____, 25 TONS/YEAR REDUCED SULFUR COMPOUNDS ? _____, 25 TONS/YEAR FLUORIDES ? _____, 100 TONS/YEAR CARBON MONOXIDE ? _____, 10 TONS/YEAR ANY SINGLE HAZARDOUS AIR POLLUTANT ? _____, 25 TONS/YEAR ANY COMBINATION HAZARDOUS AIR POLLUTANT ? _____, 1 TON/YEAR LEAD OR LEAD COMPOUNDS MEASURED AS ELEMENTAL LEAD ? _____, OR IS A SOURCE LISTED UNDER 326 IAC 2-5.1-3(a)(2) ? _____. EMISSIONS FROM MALFUNCTIONING CONTROL EQUIPMENT OR PROCESS EQUIPMENT CAUSED EMISSIONS IN EXCESS OF APPLICABLE LIMITATION _____.

THIS MALFUNCTION RESULTED IN A VIOLATION OF: 326 IAC _____ OR, PERMIT CONDITION # _____ AND/OR PERMIT LIMIT OF _____

THIS INCIDENT MEETS THE DEFINITION OF "MALFUNCTION" AS LISTED ON REVERSE SIDE ? Y N

THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT ? Y N

COMPANY: _____ PHONE NO. () _____

LOCATION: (CITY AND COUNTY) _____

PERMIT NO. _____ AFS PLANT ID: _____ AFS POINT ID: _____ INSP: _____

CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON: _____

DATE/TIME MALFUNCTION STARTED: ____/____/20____ _____ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: _____

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE ____/____/20____ _____ AM/PM

TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO2, VOC, OTHER: _____

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: _____

MEASURES TAKEN TO MINIMIZE EMISSIONS: _____

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL* SERVICES: _____

CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: _____

CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: _____

INTERIM CONTROL MEASURES: (IF APPLICABLE) _____

MALFUNCTION REPORTED BY: _____ TITLE: _____
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY: _____ DATE: _____ TIME: _____

*SEE PAGE 2

Please note - This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6.

326 IAC 1-6-1 Applicability of rule

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1.

326 IAC 1-2-39 "Malfunction" definition

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.

***Essential services** are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

If this item is checked on the front, please explain rationale:

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a
Minor Source Operating Permit (MSOP) Renewal

Source Description and Location

Source Name: U.S. Census Bureau
Source Location: 1201 East Tenth Street, Building 63-B, Jeffersonville, Indiana, 47132
County: Clark County (Jeffersonville Township)
SIC Code: 8744 (Facilities Support Management Services)
Permit Renewal No.: M019-47834-00165
Permit Reviewer: Donald McQuigg

On May 10, 2024, U.S. Census Bureau submitted an application to the Office of Air Quality (OAQ) requesting to renew its operating permit. OAQ has reviewed the operating permit renewal application from U.S. Census Bureau relating to the operation of a stationary national processing center operation. U.S. Census Bureau was issued MSOP No. M019-47834-00165 on September 12, 2019.

Existing Approvals

The source was issued MSOP No. M019-47834-00165 on September 12, 2019. The source has since received the following approval:

Administrative Amendment No. 019-42863-00165 on June 11, 2020.

All terms and conditions of previous permits issued pursuant to permitting programs approved into the State Implementation Plan have been either incorporated as originally stated, revised, or deleted by this permit. All previous registrations and permits are superseded by this permit.

Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units:

- (a) One (1) natural gas-fired boiler, identified as Bldg 62 Boiler 1, constructed in 1989, with a nominal heat input capacity of 20.92 MMBtu/hr, using no control, and exhausting outdoors.

[Under NSPS, Subpart Dc, Bldg 62 Boiler 1 is considered an affected facility.]

- (b) One (1) natural gas-fired boiler, identified as Bldg 62 Boiler 2, constructed in 2018, with a nominal heat input capacity of 21.0 MMBtu/hr, using no control, and exhausting outdoors.

[Under NSPS, Subpart Dc, Bldg 62 Boiler 2 is considered an affected facility.]

- (c) One (1) natural gas-fired boiler, identified as Bldg 62 Boiler 3, constructed in 2001, with a nominal heat input capacity of 43.45 MMBtu/hr, using no control, and exhausting outdoors.

[Under NSPS, Subpart Dc, Bldg 62 Boiler 3 is considered an affected facility.]

- (d) Three (3) natural gas-fired boilers including the following:

- (1) Bldg 63 Cafe Water Boiler, constructed in 2002, with a nominal heat input capacity of 0.37 MMBtu/hr, using no control, and exhausting indoors.

- (2) Bldg 66 Hot Water Boiler, constructed in 1999, with a nominal heat input capacity of 0.33 MMBtu/hr, using no control, and exhausting indoors.
- (3) Bldg 91 Boiler, constructed in 2012, with a nominal heat input capacity of 1.0 MMBtu/hr, using no control, and exhausting indoors.
- (e) Nine (9) natural gas-fired cooking operations including the following:
 - (1) One (1) gas griddle, constructed in 2019, with a nominal heat input capacity of 0.14 MMBtu/hr, using no control, and exhausting indoors.
 - (2) One (1) gas range, constructed in 2019, with a nominal heat input capacity of 0.18 MMBtu/hr, using no control, and exhausting indoors.
 - (3) Two (2) natural gas-fired ovens, constructed in 2019, each with a nominal heat input capacity of 0.12 MMBtu/hr, using no control, and exhausting indoors.
 - (4) Four (4) natural gas-fired fryers, constructed in 2019, each with a nominal heat input capacity of 0.12 MMBtu/hr, using no control, and exhausting indoors.
- (f) Four (4) diesel-fired large emergency generators including the following:
 - (1) Bldg 60 Generator, constructed before 2006, with an engine rating of 1,642 hp, using no control, and exhausting outdoors.
 - (2) Bldg 61 Generator, constructed in 2010, with an engine rating of 2,220 hp, using no control, and exhausting outdoors.

[Under NSPS, Subpart IIII, Bldg 61 Generator is considered an affected facility.]
[Under NESHAP, Subpart ZZZZ, Bldg 61 Generator is considered an affected source.]
 - (3) Bldg 63 Generator, constructed before 2006, with an engine rating of 1,232 hp, using no control, and exhausting outdoors.
 - (4) Bldg 64 Generator, constructed before 2006, with an engine rating of 1,642 hp, using no control, and exhausting outdoors.
- (g) Two (2) diesel-fired small emergency generators including the following:
 - (1) Bldg 62 Generator, constructed before 2006, with an engine rating of 246 hp, using no control, and exhausting outdoors.
 - (2) Security Building Generator, constructed before 2006, with an engine rating of 90 hp, using no control, and exhausting outdoors.
- (h) One (1) diesel fuel storage tank, identified as Tank #1, constructed in 2000, with a maximum storage capacity of 500 gallons, using no controls, and exhausting to the atmosphere.
- (i) One (1) MIG/TIG welding station, with a maximum capacity of 0.017 pounds of electrode per hour, using no control, and exhausting indoors.
- (j) One (1) printing operation, with a maximum material usage of 0.0028 gallons per hour, using no control, and exhausting indoors.
- (k) Paved roads and parking lots with public access.

Emission Units and Pollution Control Equipment Removed From the Source

The source has removed the following emission units:

- (a) One (1) natural gas-fired boiler, identified as Bldg 62 Boiler 3, constructed in 2001, with a nominal heat input capacity of 43.45 MMBtu/hr, using no control, and exhausting outdoors.

[Under NSPS, Subpart Dc, this boiler is considered an affected facility.]
- (b) One (1) natural gas-fired boiler, identified as Bldg 66 Hot Water Boiler, constructed in 1999, with a nominal heat input capacity of 0.33 MMBtu/hr, using no control, and exhausting indoors.

Enforcement Issue

There are no enforcement actions pending.

Emission Calculations

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

County Attainment Status

The source is located in Clark 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 ₂	Unclassifiable or attainment effective April 9, 2018, for the 2010 primary 1-hour SO ₂ standard. Better than national secondary standards effective March 3, 1978.
CO	Unclassifiable or attainment effective November 15, 1990.
O ₃	Attainment effective July 5, 2022, for the 2015 8-hour ozone standard.
PM _{2.5}	Unclassifiable or attainment effective January 28, 2019, 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**
 U.S. EPA, in the Federal Register Notice 87 FR 39750 dated July 5, 2022, designated Clark County as attainment for the 2015 8-hour ozone standard effective July 5, 2022. Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) 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 NOx emissions are considered when evaluating the rule applicability relating to ozone. Therefore, VOC and NOx emissions were evaluated pursuant to the requirements of Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) **PM_{2.5}**
 Clark County has been classified as attainment for PM_{2.5}. Therefore, direct PM_{2.5}, SO₂, and NOx emissions were reviewed pursuant to the requirements of Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

- (c) Other Criteria Pollutants
 Clark 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).

The fugitive emissions of regulated air pollutants and hazardous air pollutants (HAP) are counted toward the determination of MSOP applicability (326 IAC 2-6.1) 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.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source.

	Unrestricted Potential Emissions (ton/year)								
	PM ¹	PM ₁₀ ¹	PM _{2.5} ^{1, 2}	SO ₂	NO _x	VOC	CO	Single HAP ³	Total HAPs
Bldg 62 Boiler 1	0.17	0.68	0.68	0.054	8.93	0.49	7.55	0.16	0.17
Bldg 62 Boiler 2	0.17	0.69	0.69	0.054	9.02	0.50	7.57	0.16	0.17
Bldg 63 Cafe Water Boiler	0.003	0.012	0.012	0.0009	0.16	0.0086	0.13	0.0028	0.003
Bldg 91 Boiler	0.008	0.033	0.033	0.0026	0.43	0.023	0.36	0.008	0.008
Natural gas-fired griddle	0.001	0.005	0.005	0.0004	0.06	0.003	0.05	0.001	0.001
Natural gas-fired range	0.0015	0.01	0.01	0.0005	0.08	0.004	0.07	0.0014	0.0014
Natural gas-fired ovens (2)	0.002	0.01	0.01	0.0006	0.10	0.01	0.09	0.002	0.002
Natural gas-fired fryers (4)	0.004	0.02	0.02	0.001	0.21	0.01	0.18	0.004	0.004
Bldg 60 Generator	0.29	0.16	0.16	0.005	9.85	0.15	2.26	-	0.0045
Bldg 61 Generator	0.39	0.22	0.22	0.007	13.32	0.39	3.05	-	0.006
Bldg 63 Generator	0.22	0.12	0.12	0.004	7.39	0.22	1.69	-	0.003
Bldg 64 Generator	0.29	0.16	0.16	0.005	9.85	0.29	2.26	-	0.005

Bldg 62 Generator	0.14	0.14	0.14	0.13	1.91	0.15	0.41	-	0.002
Security Bldg Generator	0.05	0.05	0.05	0.046	0.70	0.057	0.15	-	0.0006
Welding	0.0004	0.0004	0.0004	-	-	-	-	0.00003	-
Printing	-	-	-	-	-	0.00008	-	0.00008	-
Diesel Fuel Tank #1	-	-	-	-	-	0.00007	-	0.00001	0.01
Total PTE of Entire Source Excluding Fugitive Emissions*	1.73	2.31	2.31	0.31	62.06	2.45	25.82	0.34	0.38
Title V Major Source Thresholds	NA	100	100	100	100	100	100	10	25
Paved Roads	2.32	0.46	0.11	-	-	-	-	-	-
Total PTE of Entire Source Including Source-Wide Fugitives*	4.04	2.77	2.42	0.31	62.06	2.45	25.82	0.35	0.38
MSOP Thresholds	25	25	25	25	25	25	< 100	< 10	< 25

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 is Hexane.

*Fugitive HAP emissions are always included in the source-wide emissions.

Appendix A of this TSD reflects the detailed unrestricted potential emissions of the source.

- (a) The potential to emit (as defined in 326 IAC 2-7-1(30)) of all regulated air pollutants is less than 100 tons per year. However, the potential to emit NO_x and CO is equal to or greater than twenty-five (25) tons per year, each. Therefore, the source is not subject to the provisions of 326 IAC 2-7. The source will be issued an MSOP Renewal.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(30)) of any single HAP is less than ten (10) tons per year and/or the potential to emit (as defined in 326 IAC 2-7-1(30)) of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-7. The source will be issued an MSOP Renewal.

Federal Rule Applicability

Federal rule applicability for this source has been reviewed as follows:

- (a) The natural gas-fired boilers, identified as Bldg 62 Boiler 1 and Bldg 62 Boiler 2, are each subject to the requirements of the New Source Performance Standard for Small Industrial-Commercial-Institutional Steam Generating Units 40 CFR 60, Subpart Dc and 326 IAC 12, are included in the permit for the two (2) natural gas-fired boilers, identified as Bldg 62 Boiler 1 and Bldg 62 Boiler 2, because they were each constructed after the applicability date of June 9, 1989 and they each have a heat input capacity greater than 10 MMBtu per hour and less than 100 MMBtu per hour.

The emission units subject to this rule are as follows:

- (1) One (1) natural gas-fired boiler, identified as Bldg 62 Boiler 1, constructed in 1989, with a nominal heat input capacity of 20.92 MMBtu/hr, using no control, and exhausting outdoors.

[Under NSPS, Subpart Dc, Bldg 62 Boiler 1 is considered an affected facility.]

- (2) One (1) natural gas-fired boiler, identified as Bldg 62 Boiler 2, constructed in 2018, with a nominal heat input capacity of 21.0 MMBtu/hr, using no control, and exhausting outdoors.

[Under NSPS, Subpart Dc, Bldg 62 Boiler 2 is considered an affected facility.]

The natural gas-fired boilers, identified as Bldg 62 Boiler 1 and Bldg 62 Boiler 2, are each subject to the following portions of 40 CFR 60, Subpart Dc:

- (1) 60.40c(a), (b)
- (2) 60.41c
- (3) 60.48c(a), (a)(1)-(4), (f), (f)(4), (f)(4)(i)-(iii), (g)(2)

The provisions of 40 CFR 60, Subpart A – General Provisions, which are incorporated as 326 IAC 12-1, apply to this source, except when otherwise specified in 40 CFR 60, Subpart Dc.

- (b) The requirements of the New Source Performance Standard for Small Industrial-Commercial-Institutional Steam Generating Units, 40 CFR 60, Subpart Dc, are not included in the permit for the two (2) natural gas-fired boilers, identified as Bldg 63 Care Water Boiler and Bldg 91 Boiler, because they each have a heat input capacity less than 10 MMBtu per hour.
- (c) The requirements of the New Source Performance Standard for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984, 40 CFR 60, Subpart Kb and 326 IAC 12, are not included in the permit for the 500 gallon diesel storage tank (Tank #1) because the tank has a maximum storage capacity of less than seventy-five cubic meters (75 m³) (19,813 gallons).
- (d) The requirements of the New Source Performance Standard for the Graphic Arts Industry: Publication Rotogravure Printing, 40 CFR 60, Subpart QQ and 326 IAC 12, are not included in the permit for this source, because the source does not operate any rotogravure printing units as defined in 40 CFR 60.431.
- (e) The diesel-fired emergency generator, identified as Bldg 61 Generator, are each subject to the requirements of the New Source Performance Standard for Stationary Compression Ignition Internal Combustion Engines, 40 CFR 60, Subpart IIII and 326 IAC 12, are included in the permit for the one (1) diesel-fired large emergency generator, identified as Bldg 61 Generator, because it is a stationary compression ignition internal combustion engine and was constructed after July 11, 2005, and manufactured after April 1, 2006.

The emission unit subject to this rule is as follows:

- (1) Bldg 61 Generator, constructed in 2010, with an engine rating of 2,220 hp, using no control, and exhausting outdoors.

The Generator, identified as Bldg 61 Generator is subject to the following portions of 40 CFR 60, Subpart IIII:

- (1) 40 CFR 60.4200(a)(2)(i)
- (2) 40 CFR 60.4205(b)
- (3) 40 CFR 60.4206
- (4) 40 CFR 60.4207(a), (b)
- (5) 40 CFR 60.4208
- (6) 40 CFR 60.4209(a)
- (7) 40 CFR 60.4211(a), (c), (f)(1), (f)(2)(i), (g)
- (8) 40 CFR 60.4214(b)
- (9) 40 CFR 60.4218
- (10) 40 CFR 60.4219
- (11) Table 8 to Subpart IIII of Part 60 (applicable portions)

The provisions of 40 CFR 60, Subpart A – General Provisions, which are incorporated as 326 IAC 12-1, apply to this source, except when otherwise specified in 40 CFR 60, Subpart IIII.

- (f) The requirements of the New Source Performance Standard for Stationary Compression Ignition Internal Combustion Engines, 40 CFR 60, Subpart IIII, are not included in the permit for the three (3) diesel-fired large emergency generators, identified as Bldg 60 Generator, Bldg 63 Generator, Bldg 64 Generator, and the two (2) diesel-fired small emergency generators, identified as Bldg 62 Generator and Security Building Generator, because they were each constructed before the applicability date, July 11, 2005.

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

National Emission Standards for Hazardous Air Pollutants (NESHAP):

- (a) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63, Subpart ZZZZ and 326 IAC 20-82, are not included in the permit for the five (5) diesel-fired emergency generators, identified as Bldg 60 Generator, Bldg 63 Generator, Bldg 64 Generator, Bldg 62 Generator, and Security Building Generator because these generators meet the definition of an existing commercial emergency stationary RICE as defined in 40 CFR 63.6675, operates according to the provisions specified in 40 CFR 63.6640(f), and that do not operate for the purpose specified in 40 CFR 63.6640(f)(4)(ii). Pursuant to 40 CFR 63.6585(f), the requirements of 40 CFR 63, Subpart ZZZZ are not applicable to the five (5) diesel-fired emergency generators, identified as Bldg 60 Generator, Bldg 63 Generator, Bldg 64 Generator, Bldg 62 Generator, and Security Building Generator.
- (b) The Bldg 61 Generator is subject to the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE), 40 CFR 63, Subpart ZZZZ, which is incorporated by reference as 326 IAC 20-82, because the Bldg 61 Generator is considered a new (construction commenced on or after June 12, 2006) emergency generator and is a stationary reciprocating internal combustion engine.

The emission unit subject to this rule are as follows:

- (1) One (1) diesel-fired large emergency generator:
- (A) Bldg 61 Generator, constructed in 2010, with an engine rating of 2,220 hp, using no control, and exhausting outdoors.

The emergency generator, identified as Bldg 61 Generator, is subject to the following portions of 40 CFR 63, Subpart ZZZZ:

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

Pursuant to 40 CFR 63.6665, the one (1) diesel-fired emergency generator, identified as Bldg 61 Generator, does not have to meet the requirements of 40 CFR 63, Subpart A (General Provisions) because it is considered a new stationary RICE located at an area source of HAP emissions.

- (c) The requirements of the National Emission Standards for Hazardous Air Pollutants for Major Sources: 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 natural gas-fired units because the source is not located in or part of a major source of HAPs.
- (d) The requirements of the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources, 40 CFR 63, Subpart JJJJJJ, are not included in the permit because the Bldg 62 Boiler 1, Bldg 62 Boiler 2, Bldg 63 Care Water Boiler, and Bldg 91 Boiler are all gas-fired boilers, as defined by 40 CFR 63.11237, which are specifically exempted from this rule under 40 CFR 63.11195(e).
- (e) There are no other National Emission Standards for Hazardous Air Pollutants under 40 CFR 63, 326 IAC 14 and 326 IAC 20 included in the permit.

Compliance Assurance Monitoring (CAM):

- (a) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is not included in the permit, 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

State rule applicability for this source has been reviewed as follows:

326 IAC 2-6.1 (Minor Source Operating Permits (MSOP))

MSOP applicability is discussed under the Potential to Emit After Issuance section of this document.

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).

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 Lake or Porter County, 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)

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

326 IAC 6-4 (Fugitive Dust Emissions Limitations)

The source is subject to the requirements of 326 IAC 6-4, because the paved roads and parking lots 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.

326 IAC 6.5 (Particulate Matter Limitations Except Lake County)

This source (located in Clark 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 unlimited PTE of PM is less than ten (10) tons per year; therefore, the source-wide actual emissions of PM are less than 10 tons per year. This source is not subject to the requirements of 326 IAC 6.5 because the source-wide PTE of PM is less than 100 tons per year and source-wide actual emissions of PM are less than ten (10) tons per year

State Rule Applicability – Individual Facilities

State rule applicability has been reviewed as follows:

Natural Gas-Fired Boilers

326 IAC 6-2-4 (Particulate Matter Emission Limitations for Sources of Indirect Heating)

Pursuant to 326 IAC 6-2-1(d), indirect heating facilities which received permit to construct after September 21, 1983, are subject to the requirements of 326 IAC 6-2-4.

The particulate matter emissions (Pt) shall be limited by the following equation:

$$Pt = \frac{1.09}{Q^{0.26}}$$

Where:

Pt = Pounds of particulate matter emitted per million British thermal units (lb/MMBtu).

Q = Total source maximum operating capacity rating in MMBtu/hr heat input. The maximum operating capacity rating is defined as the maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's permit application, except when some lower capacity is contained in the facility's operation permit; in which case, the capacity specified in the operation.

Indirect Heating Units Which Began Operation After September 21, 1983						
Facility	Construction Date (Removal Date)	Operating Capacity (MMBtu/hr)	Q (MMBtu/hr)	Calculated Pt (lb/MMBtu)	Particulate Limitation, (Pt) (lb/MMBtu)	PM PTE based on AP-42 (lb/MMBtu)
Bldg 62 Boiler 1	1989	20.92	20.92	0.49	0.49	0.0019
Bldg 62 Boiler 3	2001	43.45	64.37	0.37	0.37	0.0019
Bldg 63 Cafe Water Boiler	2002	0.37	64.74	0.37	0.37	0.0019
Bldg 91 Boiler	2012	1.0	65.74	0.37	0.37	0.0019
Bldg 62 Boiler 2	2018	21.0	86.99	0.34	0.34	0.0019
Where: Q = Includes the capacity (MMBtu/hr) of the new unit(s) and the capacities for those unit(s) which were in operation at the source at the time the new unit(s) was constructed.						
Note: For emission units subsequently removed from the source, the effect of removing these units on "Q" is shown in the year the boiler was removed.						

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

Liquid and gaseous fuels and combustion air are excluded from the definition of process weight as defined in 326 IAC 1-2-59(a). Therefore, the natural gas-fired boilers are not subject to the requirements of 326 IAC 6-3-2.

326 IAC 7-1.1 Sulfur Dioxide Emission Limitations

The natural gas-fired boilers are not subject to 326 IAC 326 IAC 7-1.1 because each boiler has a potential to emit (or limited potential to emit) sulfur dioxide (SO₂) of less than twenty-five (25) tons per year or ten (10) pounds per hour.

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

Even though the natural gas-fired boilers were constructed after January 1, 1980, they are not subject to the requirements of 326 IAC 8-1-6 because each of their unlimited VOC potential emissions are less than twenty-five (25) tons per year.

Natural Gas-Fired Cooking Units

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

Pursuant to 326 IAC 6-2-1, the requirements of 326 IAC 6-2 are not applicable to the natural gas-fired cooking units because they are not considered combustion for indirect heating as defined in 326 IAC 1-2-19.

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

Liquid and gaseous fuels and combustion air are excluded from the definition of process weight as defined in 326 IAC 1-2-59(a). Therefore, the natural gas-fired cooking units are not subject to the requirements of 326 IAC 6-3-2.

326 IAC 7-1.1 Sulfur Dioxide Emission Limitations

The natural gas-fired cooking units are not subject to 326 IAC 326 IAC 7-1.1 because it has a potential to emit (or limited potential to emit) sulfur dioxide (SO₂) of less than twenty-five (25) tons per year or ten (10) pounds per hour.

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

Even though the natural gas-fired cooking appliances were constructed after January 1, 1980, they are not subject to the requirements of 326 IAC 8-1-6 because each of emission unit has unlimited potential VOC emissions of less than twenty-five (25) tons per year.

Diesel-Fired Large Emergency Generators

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

Pursuant to 326 IAC 6-2-1, the requirements of 326 IAC 6-2 are not applicable to the four (4) diesel-fired large emergency generators because they are not considered combustion for indirect heating as defined in 326 IAC 1-2-19.

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

Liquid and gaseous fuels and combustion air are excluded from the definition of process weight as defined in 326 IAC 1-2-59(a). Therefore, the four (4) diesel-fired large emergency generators are not subject to the requirements of 326 IAC 6-3-2.

326 IAC 7-1.1 Sulfur Dioxide Emission Limitations

The four (4) diesel-fired large emergency generators are not subject to 326 IAC 326 IAC 7-1.1 because each generator has a potential to emit (or limited potential to emit) sulfur dioxide (SO₂) of less than twenty-five (25) tons per year or ten (10) pounds per hour.

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

Even though the four (4) diesel-fired large emergency generators were constructed after January 1, 1980, they are not subject to the requirements of 326 IAC 8-1-6 because each of their unlimited VOC potential emissions are less than twenty-five (25) tons per year.

Diesel-Fired Small Emergency Generators

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

Pursuant to 326 IAC 6-2-1, the requirements of 326 IAC 6-2 are not applicable to the two (2) diesel-fired small emergency generators because they are not considered combustion for indirect heating as defined in 326 IAC 1-2-19.

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

Liquid and gaseous fuels and combustion air are excluded from the definition of process weight as defined in 326 IAC 1-2-59(a). Therefore, the two (2) diesel-fired small emergency generators are not subject to the requirements of 326 IAC 6-3-2.

326 IAC 7-1.1 Sulfur Dioxide Emission Limitations

The two (2) diesel-fired small emergency generators are not subject to 326 IAC 326 IAC 7-1.1 because each generator has a potential to emit (or limited potential to emit) sulfur dioxide (SO₂) of less than twenty-five (25) tons per year or ten (10) pounds per hour.

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

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

Diesel Storage Tank (Tank#1)

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

Even though diesel storage Tank #1 was constructed after January 1, 1980, it is not subject to the requirements of 326 IAC 8-1-6 because its unlimited VOC potential emissions is less than twenty-five (25) tons per year.

326 IAC 8-9 (Volatile Organic Liquid Storage Vessels)

Pursuant to 326 IAC 8-9-1, the diesel storage Tank #1 is subject to the requirements of 326 IAC 8-9-6(a) and (b), because it is a stationary vessel storing volatile organic liquids with a maximum storage capacity less than 39,000 gallons and located in Clark County.

Welding

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

Pursuant to 326 IAC 6-3-1(b)(9), welding operations that consume less than 625 pounds of rod or wire per day are exempt from 326 IAC 6-3-2. Therefore, the one (1) MIG/TIG welding station is not subject to the requirements of 326 IAC 6-3-2.

Printing

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

Even though this printing operation was constructed after January 1, 1980, it is not subject to the requirements of 326 IAC 8-1-6 because its unlimited VOC potential emissions are less than twenty-five (25) tons per year.

326 IAC 8-5-5 (Graphic Arts Operations)

The printing operation is not subject to the requirements of 326 IAC 8-5-5 because it does not have potential emissions of (twenty-five (25) tons) per year or more VOCs.

Compliance Determination and Monitoring Requirements

There are no compliance requirements applicable to this source.

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 May 10, 2024. Additional information was received on May 15, 2024.

The operation of this stationary national processing center operation shall be subject to the conditions of the attached proposed MSOP Renewal No. M019-47834-00165.

The staff recommends to the Commissioner that the MSOP Renewal be approved.

IDEM Contact

- (a) If you have any questions regarding this permit, please contact Donald McQuigg, 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) 234-4240 or (800) 451-6027, and ask for Donald McQuigg or (317) 234-4240.
- (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 Calculations
PTE Summary**

Company Name: U.S. Census Bureau
Address City IN Zip: 1201 East Tenth Street, Building 63-B, Jeffersonville, IN 47132
Permit Renewal No.: M019-47834-00165
Reviewer: Donald McQuigg

Emission Unit	Uncontrolled Potential to Emit (tons/yr)								Highest Single HAP**
	PM	PM ₁₀	PM _{2.5} *	SO ₂	NO _x	VOC	CO	HAP Total	
Bldg 62 Boiler 1	0.17	0.68	0.68	5.39E-02	8.98	0.49	7.55	0.17	0.16
Bldg 62 Boiler 2	0.17	0.69	0.69	5.41E-02	9.02	0.50	7.57	0.17	0.16
Bldg 63 Cafe Water Boiler	2.98E-03	1.19E-02	1.19E-02	9.40E-04	0.16	8.62E-03	0.13	2.95E-03	2.82E-03
Bldg 91 Boiler	8.16E-03	3.26E-02	3.26E-02	2.58E-03	0.43	2.36E-02	0.36	8.08E-03	7.73E-03
Gas Griddle	1.13E-03	4.54E-03	4.54E-03	3.58E-04	0.06	3.28E-03	0.05	1.12E-03	1.07E-03
Gas Range	1.50E-03	0.01	0.01	4.74E-04	0.08	4.35E-03	0.07	1.49E-03	1.42E-03
Ovens (2)	1.96E-03	0.01	0.01	6.18E-04	0.10	0.01	0.09	1.94E-03	1.86E-03
Fryers (4)	3.98E-03	0.02	0.02	1.26E-03	0.21	0.01	0.18	3.94E-03	3.77E-03
Bldg 60 Generator	0.29	0.16	0.16	4.98E-03	9.85	0.29	2.26	4.52E-03	--
Bldg 61 Generator	0.39	0.22	0.22	6.73E-03	13.32	0.39	3.05	6.11E-03	--
Bldg 63 Generator	0.22	0.12	0.12	3.74E-03	7.39	0.22	1.69	3.39E-03	--
Bldg 64 Generator	0.29	0.16	0.16	4.98E-03	9.85	0.29	2.26	4.52E-03	--
Bldg 62 Generator	0.14	0.14	0.14	0.13	1.91	0.15	0.41	1.61E-03	--
Security Bldg Generator	0.050	0.050	0.050	0.046	0.700	0.057	0.15	5.91E-04	--
Welding	4.13E-04	4.13E-04	4.13E-04	--	--	--	--	3.75E-05	--
Printing	--	--	--	--	--	8.39E-05	--	8.39E-05	--
Tank #1	--	--	--	--	--	6.96E-05	--	1.00E-05	0.01
Total Excluding Fugitives	1.73	2.31	2.31	0.31	62.06	2.45	25.82	0.38	0.35
Paved Roads - fugitives	2.32	0.46	0.11	--	--	--	--	--	--
Total Including Fugitives	4.04	2.77	2.42	0.31	62.06	2.45	25.82	0.38	0.35

* PM_{2.5} listed is direct PM_{2.5}

**Single highest source-wide HAP = Hexane

**Appendix A: Emission Calculations
PTE Summary before removal of boilers**

Company Name: U.S. Census Bureau
Address City IN Zip: 1201 East Tenth Street, Building 63-B, Jeffersonville, IN 47132
Permit Renewal No.: M019-47834-00165
Reviewer: Donald McQuigg

Emission Unit	Uncontrolled Potential to Emit (tons/yr)								Highest Single HAP**
	PM	PM ₁₀	PM _{2.5*}	SO ₂	NO _x	VOC	CO	HAP Total	
Bldg 62 Boiler 1	0.17	0.68	0.68	5.39E-02	8.98	0.49	7.55	0.17	0.16
Bldg 62 Boiler 2	0.17	0.69	0.69	5.41E-02	9.02	0.50	7.57	0.17	0.16
Bldg 62 Boiler 3	0.35	1.42	1.42	0.11	18.66	1.03	15.67	0.35	0.34
Bldg 63 Cafe Water Boiler	2.98E-03	1.19E-02	1.19E-02	9.40E-04	0.16	8.62E-03	0.13	2.95E-03	2.82E-03
Bldg 66 Hot Water Boiler	2.72E-03	1.09E-02	1.09E-02	8.58E-04	0.14	7.86E-03	0.12	2.69E-03	2.57E-03
Bldg 91 Boiler	8.16E-03	3.26E-02	3.26E-02	2.58E-03	0.43	2.36E-02	0.36	8.08E-03	7.73E-03
Gas Griddle	1.13E-03	4.54E-03	4.54E-03	3.58E-04	0.06	3.28E-03	0.05	1.12E-03	1.07E-03
Gas Range	1.50E-03	0.01	0.01	4.74E-04	0.08	4.35E-03	0.07	1.49E-03	1.42E-03
Ovens (2)	1.96E-03	0.01	0.01	6.18E-04	0.10	0.01	0.09	1.94E-03	1.86E-03
Fryers (4)	3.98E-03	0.02	0.02	1.26E-03	0.21	0.01	0.18	3.94E-03	3.77E-03
Bldg 60 Generator	0.29	0.16	0.16	4.98E-03	9.85	0.29	2.26	4.52E-03	--
Bldg 61 Generator	0.39	0.22	0.22	6.73E-03	13.32	0.39	3.05	6.11E-03	--
Bldg 63 Generator	0.22	0.12	0.12	3.74E-03	7.39	0.22	1.69	3.39E-03	--
Bldg 64 Generator	0.29	0.16	0.16	4.98E-03	9.85	0.29	2.26	4.52E-03	--
Bldg 62 Generator	0.14	0.14	0.14	0.13	1.91	0.15	0.41	1.61E-03	--
Security Bldg Generator	4.97E-02	4.97E-02	4.97E-02	4.63E-02	0.70	5.68E-02	0.15	5.91E-04	--
Welding	4.13E-04	4.13E-04	4.13E-04	--	--	--	--	3.75E-05	--
Printing	--	--	--	--	--	8.39E-05	--	8.39E-05	--
Tank #1	--	--	--	--	--	6.96E-05	--	1.00E-05	<0.01
Total Excluding Fugitives	2.08	3.74	3.74	0.42	80.86	3.48	41.61	0.73	0.68
<u>Fugitive Emissions</u>									
Paved Roads	2.32	0.46	0.11	--	--	--	--	--	--
Total Including Fugitives	4.40	4.20	3.85	0.42	80.86	3.48	41.61	0.73	0.68

* PM2.5 listed is direct PM2.5

**Single highest source-wide HAP = Hexane

Bldg 62 Boiler 3 and Bldg 66 Hot Water Boiler are removed for the permit renewal 47834.

**Appendix A: Emission Calculations
Natural Gas Combustion
MMBtu/hr <100**

Company Name: U.S. Census Bureau
Address City IN Zip: 1201 East Tenth Street, Building 63-B, Jeffersonville, IN 47132
Permit Renewal No.: M019-47834-00165
Reviewer: Donald McQuigg

Emissions Unit	Heat Input Capacity (MMBtu/hr)	Potential Throughput ¹ (MMCF/yr)	Emission Factor (lb/MMCF) ⁴						
			PM ²	PM ₁₀ ^{2,3}	PM _{2.5} ^{2,3}	SO ₂	NO _x	VOC	CO
			1.90	7.60	7.60	0.60	100.00	5.50	84.00
			Potential Emissions (tons/yr)						
Bldg 62 Boiler 1	20.92	179.68	0.17	0.68	0.68	5.39E-02	8.98	0.49	7.55
Bldg 62 Boiler 2	21.00	180.35	0.17	0.69	0.69	5.41E-02	9.02	0.50	7.57
Bldg 62 Boiler 3	43.45	373.13	0.35	1.42	1.42	0.11	18.66	1.03	15.67
Bldg 63 Cafe Water Boiler	0.37	3.13	2.98E-03	1.19E-02	1.19E-02	9.40E-04	0.16	8.62E-03	0.13
Bldg 66 Hot Water Boiler	0.33	2.86	2.72E-03	1.09E-02	1.09E-02	8.58E-04	0.14	7.86E-03	0.12
Bldg 91 Boiler	1.00	8.59	0.01	3.26E-02	3.26E-02	2.58E-03	0.43	2.36E-02	0.36
Gas Griddle	0.14	1.19	1.13E-03	4.54E-03	4.54E-03	3.58E-04	0.06	3.28E-03	0.05
Gas Range	0.18	1.58	1.50E-03	0.01	0.01	4.74E-04	0.08	4.35E-03	0.07
Ovens (2)	0.24	2.06	1.96E-03	0.01	0.01	6.18E-04	0.10	0.01	0.09
Fryers (4)	0.49	4.19	3.98E-03	0.02	0.02	1.26E-03	0.21	0.01	0.18
Total:			0.72	2.88	2.88	0.23	37.84	2.08	31.78

Notes:

¹Heat input to fuel input conversion based on a representative natural gas heating value of 1,020 Btu/scf.

²PM emission factor is filterable PM only. PM₁₀ and PM_{2.5} emission factors are filterable and condensable PM combined.

³PM_{2.5} assumed equal to PM₁₀.

⁴Emission factors are from AP-42 Section 1.4, Tables 1.4-1 and 1.4-2.

HAPs - Organics

Emissions Unit	Heat Input Capacity (MMBtu/hr)	Potential Throughput (MMCF/yr)	Emission Factor (lb/MMCF) ¹				
			Benzene	Dichlorobenzene	Formaldehyde	Toluene	Hexane
			2.10E-03	1.20E-03	7.50E-02	3.40E-03	1.80
			Potential Emissions (tons/yr)				
Bldg 62 Boiler 1	20.92	179.68	1.89E-04	1.08E-04	6.74E-03	3.05E-04	1.62E-01
Bldg 62 Boiler 2	21.00	180.35	1.89E-04	1.08E-04	6.76E-03	3.07E-04	1.62E-01
Bldg 62 Boiler 3	43.45	373.13	3.92E-04	2.24E-04	1.40E-02	6.34E-04	3.36E-01
Bldg 63 Cafe Water Boiler	0.37	3.13	3.29E-06	1.88E-06	1.18E-04	5.33E-06	2.82E-03
Bldg 66 Hot Water Boiler	0.33	2.86	3.00E-06	1.72E-06	1.07E-04	4.86E-06	2.57E-03
Bldg 91 Boiler	1.00	8.59	9.02E-06	5.15E-06	3.22E-04	1.46E-05	7.73E-03
Gas Griddle	0.14	1.19	1.25E-06	7.16E-07	4.48E-05	2.03E-06	1.07E-03
Gas Range	0.18	1.58	1.66E-06	9.48E-07	5.93E-05	2.69E-06	1.42E-03
Ovens (2)	0.24	2.06	2.16E-06	1.24E-06	7.73E-05	3.50E-06	1.86E-03
Fryers (4)	0.49	4.19	4.40E-06	2.51E-06	1.57E-04	7.12E-06	3.77E-03
Total:			7.95E-04	4.54E-04	2.84E-02	1.29E-03	6.81E-01

Total HAPs (tons/yr): 7.12E-01

Notes:

¹The five highest organic and metal HAPs emission factors are provided above. Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Methodology:

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

Potential Emission (tons/yr) = Potential Throughput (MMCF/yr) * Emission Factor (lb/MMCF) * 1 (ton) / 2,000 (lb)

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

Company Name: U.S. Census Bureau
Address City IN Zip: 1201 East Tenth Street, Building 63-B, Jeffersonville, IN 47132
Permit Renewal No.: M019-47834-00165
Reviewer: Donald McQuigg

Emissions Unit	Engine Rating (KW)	Engine Rating ¹ (hp)	Maximum Hours Operated Per Year
Bldg 60 Generator	1,000	1,642	500
Bldg 61 Generator	1,352	2,220	500
Bldg 63 Generator	750	1,232	500
Bldg 64 Generator	1,000	1,642	500

Notes:

¹Manufacturer rating in hp, dated 3/19/2010, for Bldg 61 Generator was used to convert Engine Rating from KW to hp.

Emissions Unit	Potential Throughput ¹ (hp-hr/yr)	Emission Factor (lb/hp-hr) ³						
		PM ²	PM ₁₀ ²	PM _{2.5} ²	SO ₂ ⁴	NO _x	VOC	CO
		7.00E-04	4.01E-04	4.01E-04	1.21E-05	2.40E-02	7.05E-04	5.50E-03
		Potential Emissions (tons/yr)						
Bldg 60 Generator	821,006	0.29	0.16	0.16	4.98E-03	9.85	0.29	2.26
Bldg 61 Generator	1,110,000	0.39	0.22	0.22	6.73E-03	13.32	0.39	3.05
Bldg 63 Generator	615,754	0.22	0.12	0.12	3.74E-03	7.39	0.22	1.69
Bldg 64 Generator	821,006	0.29	0.16	0.16	4.98E-03	9.85	0.29	2.26
Total:		1.18	0.68	0.68	2.04E-02	40.41	1.19	9.26

Notes:

¹Potential Throughput (hp-hr/yr) calculated based on a maximum of 500 operating hours per year.

²PM_{2.5} emission factors assumed to be equal to PM₁₀ emission factors.

³Emission factors are from AP-42 Section 3.4, Tables 3.4-1 and 3.4-2.

⁴Sulfur content of fuel assumed to be 0.15%.

HAPs

Emissions Unit	Potential Throughput ¹ (hp-hr/yr)	Emission Factor (lb/hp-hr) ¹						
		Benzene	Toluene	Xylene	Formaldehyde	Acetaldehyde	Acrolein	Total PAH HAPs ²
		5.43E-06	1.97E-06	1.35E-06	5.52E-07	1.76E-07	5.52E-08	1.48E-06
		Potential Emissions (tons/yr)						
Bldg 60 Generator	821,006	2.23E-03	8.07E-04	5.55E-04	2.27E-04	7.24E-05	2.26E-05	6.09E-04
Bldg 61 Generator	1,110,000	3.01E-03	1.09E-03	7.50E-04	3.07E-04	9.79E-05	3.06E-05	8.24E-04
Bldg 63 Generator	615,754	1.67E-03	6.06E-04	4.16E-04	1.70E-04	5.43E-05	1.70E-05	4.57E-04
Bldg 64 Generator	821,006	2.23E-03	8.07E-04	5.55E-04	2.27E-04	7.24E-05	2.26E-05	6.09E-04
Total:		9.15E-03	3.31E-03	2.27E-03	9.30E-04	2.97E-04	9.29E-05	2.50E-03

Total HAPs (tons/yr): 1.86E-02

Notes:

¹Emission Factors are from AP 42 Section 3.4, Tables 3.4-3 and 3.4-4.

²PAH = Polyaromatic Hydrocarbon (PAHs are considered HAPs, since they are considered Polycyclic Organic Matter)

Methodology:

Potential Throughput (hp-hr/yr) = Engine Rating (hp) * Maximum Operating Hours per Year (hr/yr)

Potential Emission (tons/yr) = Potential Throughput (hp-hr/yr) * Emission Factor (lb/hp-hr) * 1 (ton) / 2,000 (lb)

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

Company Name: U.S. Census Bureau
Address City IN Zip: 1201 East Tenth Street, Building 63-B, Jeffersonville, IN 47132
Permit Renewal No.: M019-47834-00165
Reviewer: Donald McQuigg

Emissions Unit	Engine Rating (KW)	Engine Rating ¹ (hp)	Maximum Hours Operated Per Year
Bldg 62 Generator	150	246	500
Security Bldg Generator	55	90	500

Notes:

¹Manufacturer rating in hp, dated 3/19/2010, for Bldg 62 Generator was used to convert Engine Rating from KW to hp.

Emissions Unit	Potential Throughput ¹ (hp-hr/yr)	Emission Factor (lb/hp-hr) ³						
		PM ²	PM ₁₀ ²	PM _{2.5} ²	SO ₂	NO _x	VOC	CO
		2.20E-03	2.20E-03	2.20E-03	2.05E-03	3.10E-02	2.51E-03	6.68E-03
		Potential Emissions (tons/yr)						
Bldg 62 Generator	123,151	0.14	0.14	0.14	0.13	1.91	0.15	0.41
Security Bldg Generator	45,155	4.97E-02	4.97E-02	4.97E-02	4.63E-02	0.70	5.68E-02	0.15
	Total:	0.19	0.19	0.19	0.17	2.61	0.21	0.56

Notes:

¹Potential Throughput (hp-hr/yr) calculated based on a maximum of 500 operating hours per year.

²PM and PM_{2.5} assumed to be equal to PM₁₀.

³Emission factors are from AP-42 Section 3.3, Table 3.3-1.

HAPs - Organics

Emissions Unit	Potential Throughput ¹ (hp-hr/yr)	Emission Factor (lb/hp-hr) ^{1,2}					
		Benzene	Toluene	Xylenes	Formaldehyde	Acetaldehyde	Total PAH HAPs ³
		6.53E-06	2.86E-06	2.00E-06	8.26E-06	5.37E-06	1.18E-06
		Potential Emissions (tons/yr)					
Bldg 62 Generator	123,151	4.02E-04	1.76E-04	1.23E-04	5.09E-04	3.31E-04	7.24E-05
Security Bldg Generator	45,155	1.47E-04	6.46E-05	4.50E-05	1.86E-04	1.21E-04	2.66E-05
	Total:	5.50E-04	2.41E-04	1.68E-04	6.95E-04	4.52E-04	9.90E-05

Total HAPs (tons/yr): 2.20E-03

Notes:

¹Emission factors are from AP-42 Section 3.3, Table 3.3-2.

²An average brake-specific fuel consumption (BSFC) of 7,000 Btu/hp-hr was used to convert from lb/MMBtu to lb/hp-hr.

³PAH = Polyaromatic Hydrocarbon (PAHs are considered HAPs, since they are considered Polycyclic Organic Matter)

Methodology:

Emission Factor (lb/hp-hr) = Emission Factor (lb/MMBtu) * 7,000 (Btu/hp-hr) / 1,000,000 (Btu/MMBtu)

Potential Throughput (hp-hr/yr) = Engine Rating (hp) * Maximum Operating Hours per Year (hr/yr)

Potential Emission (tons/yr) = Potential Throughput (hp-hr/yr) * Emission Factor (lb/hp-hr) * 1 (ton) / 2,000 (lb)

**Appendix A: Emission Calculations
Welding**

Company Name: U.S. Census Bureau
Address City IN Zip: 1201 East Tenth Street, Building 63-B, Jeffersonville, IN 47132
Permit Renewal No.: M019-47834-00165
Reviewer: Donald McQuigg

Welding	Number of Stations	Max. electrode consumption per station (lbs/hr)	Emission Factors ¹		Emissions		HAPS
			(lb pollutant/lb electrode)		(lbs/hr)		
			PM = PM ₁₀ = PM _{2.5}	Mn	PM = PM ₁₀ = PM _{2.5}	Mn	(lbs/hr)
Metal Inert Gas (MIG)/Tungsten Inert Gas (TIG) (carbon steel)	1	1.71E-02	5.50E-03	5.00E-04	9.42E-05	8.56E-06	8.56E-06
Total Potential Emissions (lbs/hr):					9.42E-05	8.56E-06	8.56E-06
Total Potential Emissions (tons/year):					4.13E-04	3.75E-05	3.75E-05

Notes:

¹Emission Factors are default values for carbon steel unless a specific electrode type is noted in the Process column.

Methodology:

Welding emissions (lb/hr): Number of Stations * Max. electrode consumption per station (lbs/hr) * Emission Factor (lb. pollutant/lb. electrode)

Total Potential Emissions (tons/yr) = Total Potential Emissions (lb/hr) * 8,760 (hrs/year) / 2,000 (lbs/ton)

Appendix A: Emission Calculations Printing

Company Name: U.S. Census Bureau
Address City IN Zip: 1201 East Tenth Street, Building 63-B, Jeffersonville, IN 47132
Permit Renewal No.: M019-47834-00165
Reviewer: Donald McQuigg

Product Name	Mix Ratio (% by volume)	Density (lb/gal)	VOC Content		HAP Content	
			(% by wt)	(lb/gal)	(% by wt)	(lb/gal)
Eagle O Series Solution (Water)	100	10.01	5.0%	5.00E-03	5.0%	5.00E-03
Eagle FlexPrint AS100 Black Ink	100	9.17	2.0%	1.83E-03	2.0%	1.83E-03
Drum Cartridge Versant ¹	100	--	--	--	--	--
Suction Filter ¹	100	--	--	--	--	--
Total Ink/Solvent	100	19.18	7%	6.84E-03	7%	6.84E-03

Emission Unit	Maximum Usage (gal/hr)	VOC Emission Rate		HAP Emission Rate	
		(lb/hr)	(tpy)	(lb/hr)	(tpy)
Printers	2.80E-03	1.92E-05	8.39E-05	1.92E-05	8.39E-05
Total	2.80E-03	1.92E-05	8.39E-05	1.92E-05	8.39E-05

Notes:

¹Contains no VOC content and produces no emissions.

Methodology:

Emission Rate (lb/hr) = Maximum Usage (gal/hr) * Total Ink/Solvent VOC Content

Emission Rate (tpy) = Emission Rate (lb/hr) * 8760 hr/yr ÷ 2000 lb/ton

**Appendix A: Emission Calculations
Diesel Fuel Storage Tank
Volatile Organic Compound (VOC)**

Company Name: U.S. Census Bureau
Address City IN Zip: 1201 East Tenth Street, Building 63-B, Jeffersonville, IN 47132
Permit Renewal No.: M019-47834-00165
Reviewer: Donald McQuigg

Tank Capacity

Tank ID	Tank Contents	Tank Type	Tank Volume (gal)	Turnovers per Year	Annual Throughput (gal/yr)
Tank #1	Diesel	Horizontal	500	1	500

VOC Emissions

Tank ID	Working Losses (lbs/yr)	Breathing Losses (lbs/yr)	Total Emissions (lbs/yr)	Total Emissions (tpy)
Tank #1	0.01	0.13	0.14	6.96E-05
Total:				6.96E-05

HAP Emissions

Pollutant	Working Losses (lbs/yr)	Breathing Losses (lbs/yr)	Total Emissions (lbs/yr)	Total Emissions (tpy)
Hexane (-n)	<0.01	<0.01	<0.01	<0.01
Benzene	<0.01	<0.01	<0.01	<0.01
Toluene	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	<0.01	<0.01	<0.01	<0.01
Xylene (-m)	<0.01	0.01	0.01	<0.01
1,2,4-Trimethylbenzene	<0.01	0.01	0.01	<0.01
Total:				1.00E-05

Notes:

VOC and HAP emissions from the diesel storage tank were determined using the U.S. EPA TANKS Version 4.09 program.

Methodology:

Emissions (tpy) = Emissions (lbs/yr) / 2000 (lbs/ton)

**Appendix A: Emission Calculations
Paved Roads**

Company Name: U.S. Census Bureau
Address City IN Zip: 1201 East Tenth Street, Building 63-B, Jeffersonville, IN 47132
Permit Renewal No.: M019-47834-00165
Reviewer: Donald McQuigg

Vehicle Information

Type	Maximum number of vehicles per day	Number of one-way trips per day per vehicle	Maximum trips per day (trip/day)	Maximum Weight (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)
Material Delivery (empty)	41	1	41.0	6.0	246.0	1,058	0.200	8.2	2,998.7
Material Delivery (full)	41	1	41.0	11.0	451.0	1,261	0.239	9.8	3,574.0
Totals			82.0		697.0			18.0	6,572.7

Average Vehicle Weight Per Trip =

8.5

 tons/trip
 Average Miles Per Trip =

0.22

 miles/trip

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

	PM	PM ₁₀	PM _{2.5}	
where k =	0.011	0.0022	0.00054	lb/VMT = particle size multiplier (AP-42 Table 13.2.1-1)
W =	8.5	8.5	8.5	tons = average vehicle weight (provided by source)
sL =	9.7	9.7	9.7	g/m ² = mean silt loading value for paved roads (AP-42 Table 13.2.1-3, Iron and steel production)

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

Mitigated Emission Factor, $E_{ext} = E_f * [1 - (p/4N)]$
 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	PM ₁₀	PM _{2.5}	
Unmitigated Emission Factor, $E_f =$	0.772	0.154	0.0379	lb/mile
Mitigated Emission Factor, $E_{ext} =$	0.705	0.141	0.0346	lb/mile

Process	Mitigated PTE of PM (tons/yr)	Mitigated PTE of PM ₁₀ (tons/yr)	Mitigated PTE of PM _{2.5} (tons/yr)
Material Delivery (empty)	1.06	0.21	0.05
Material Delivery (full)	1.26	0.25	0.06
Totals	2.32	0.46	0.11

Methodology:

Total Weight driven per day (ton/day) = [Maximum Weight Loaded (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 (tons/yr) = [Maximum one-way miles (miles/yr)] * [Mitigated Emission Factor (lb/mile)] * (ton/2000 lbs)
 Controlled PTE (tons/yr) = [Mitigated PTE (tons/yr)] * [1 - Dust Control Efficiency]