



We Protect Hoosiers and Our Environment.

Michael R. Pence Governor

Thomas W. Easterly Commissioner

100 North Senate Avenue Indianapolis, Indiana 46204 (317) 232-8603 Toll Free (800) 451-6027 www.idem.IN.gov

TO: Interested Parties / Applicant

DATE: May 24, 2013

RE: Harlan Bakeries - GT, LLC / 097-32467-00637

FROM: Matthew Stuckey, Branch Chief

> Permits Branch Office of Air Quality

Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, within eighteen (18) calendar days of the mailing of this notice. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filina:

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

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

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

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

> Enclosures FNPER.dot12/03/07



IDEW

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Michael R. Pence Governor

Thomas W. Easterly Commissioner

100 North Senate Avenue Indianapolis, Indiana 46204 (317) 232-8603 Toll Free (800) 451-6027 www.idem.IN.gov

Minor Source Operating Permit Renewal OFFICE OF AIR QUALITY

Harlan Bakeries - GT, LLC 7575 Georgetown Road Indianapolis, Indiana 46268

(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 Descrit No. : \$4007.22467.00627 | | | | |
|--|------------------|---------|------|--|
| Operation Permit No.: M097-32467-00637 | | | | |
| Issued by: | Issuance Date: | May 24, | 2013 | |
| Nathan C. Bell, Section Chief Permits Branch Office of Air Quality | Expiration Date: | May 24, | 2023 | |

Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright Page 2 of 26 M097-32467-00637

TABLE OF CONTENTS

| A.1 | RCE SUMMARY | . 4 |
|--|--|-----|
| A. | | |
| A.2 | Emission Units and Pollution Control Equipment Summary | |
| | | |
| | ERAL CONDITIONS | .7 |
| B.1 | | |
| B.2 | 1 | |
| B.3 | | |
| B.4 | • | |
| B.5 | | |
| B.6 | Property Rights or Exclusive Privilege | |
| B.7 | Duty to Provide Information | |
| B.8 | Annual Notification [326 IAC 2-6.1-5(a)(5)] | |
| B.9 | Preventive Maintenance Plan [326 IAC 1-6-3] | |
| B.1 | 0 Prior Permits Superseded [326 IAC 2-1.1-9.5] | |
| B.1 | | |
| B.1 | 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | |
| B.1 | | |
| B.1 | | |
| B.1 | · | |
| D ., | [IC 13-17-3-2][IC 13-30-3-1] | |
| B.1 | • | |
| B.1 | · · · · · · · · · · · · · · · · · · · | |
| B.1 | | |
| D. 1 | o Gredible Evidence [320 IAC 1-1-0] | |
| c sou | RCE OPERATION CONDITIONS1 | 12 |
| 0.000 | | _ |
| Emis | sion Limitations and Standards [326 IAC 2-6.1-5(a)(1)] | |
| C.1 | - ' ' ' ' - | |
| • | Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2] | |
| C.2 | | |
| C.3 | • | |
| C.4 | 3 Onacity 1326 IAC 5-11 | |
| | | |
| | Open Burning [326 IAC 4-1] [IC 13-17-9] | |
| C.5 | Dopen Burning [326 IAC 4-1] [IC 13-17-9] Incineration [326 IAC 4-2] [326 IAC 9-1-2] | |
| C.5 C.6 | Open Burning [326 IAC 4-1] [IC 13-17-9] Incineration [326 IAC 4-2] [326 IAC 9-1-2] Fugitive Dust Emissions [326 IAC 6-4] | |
| C.5 | Open Burning [326 IAC 4-1] [IC 13-17-9] Incineration [326 IAC 4-2] [326 IAC 9-1-2] Fugitive Dust Emissions [326 IAC 6-4] | |
| C.5 C.7 | Open Burning [326 IAC 4-1] [IC 13-17-9] Incineration [326 IAC 4-2] [326 IAC 9-1-2] Fugitive Dust Emissions [326 IAC 6-4] Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M] | |
| C.5 C.7 Testi | Open Burning [326 IAC 4-1] [IC 13-17-9] Incineration [326 IAC 4-2] [326 IAC 9-1-2] Fugitive Dust Emissions [326 IAC 6-4] Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M] ng Requirements [326 IAC 2-6.1-5(a)(2)] | |
| C.5 C.7 | Open Burning [326 IAC 4-1] [IC 13-17-9] Incineration [326 IAC 4-2] [326 IAC 9-1-2] Fugitive Dust Emissions [326 IAC 6-4] Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M] ng Requirements [326 IAC 2-6.1-5(a)(2)] | |
| C.5 C.7 Testi C.8 | Open Burning [326 IAC 4-1] [IC 13-17-9] Incineration [326 IAC 4-2] [326 IAC 9-1-2] Fugitive Dust Emissions [326 IAC 6-4] Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M] Requirements [326 IAC 2-6.1-5(a)(2)] Performance Testing [326 IAC 3-6] | |
| C.8 C.7 Testi C.8 | Open Burning [326 IAC 4-1] [IC 13-17-9] Incineration [326 IAC 4-2] [326 IAC 9-1-2] Fugitive Dust Emissions [326 IAC 6-4] Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M] ng Requirements [326 IAC 2-6.1-5(a)(2)] Performance Testing [326 IAC 3-6] pliance Requirements [326 IAC 2-1.1-11] | |
| C.5 C.7 Testi C.8 | Open Burning [326 IAC 4-1] [IC 13-17-9] Incineration [326 IAC 4-2] [326 IAC 9-1-2] Fugitive Dust Emissions [326 IAC 6-4] Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M] Requirements [326 IAC 2-6.1-5(a)(2)] Performance Testing [326 IAC 3-6] Pliance Requirements [326 IAC 2-1.1-11] | |
| C.8 C.6 C.7 Testi C.8 Com | Open Burning [326 IAC 4-1] [IC 13-17-9] Incineration [326 IAC 4-2] [326 IAC 9-1-2] Fugitive Dust Emissions [326 IAC 6-4] Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M] Ing Requirements [326 IAC 2-6.1-5(a)(2)] Performance Testing [326 IAC 3-6] Pliance Requirements [326 IAC 2-1.1-11] Compliance Requirements [326 IAC 2-1.1-11] | |
| C.8 C.7 Testi C.8 Com C.9 | Open Burning [326 IAC 4-1] [IC 13-17-9] Incineration [326 IAC 4-2] [326 IAC 9-1-2] Fugitive Dust Emissions [326 IAC 6-4] Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M] Ing Requirements [326 IAC 2-6.1-5(a)(2)] Performance Testing [326 IAC 3-6] Pliance Requirements [326 IAC 2-1.1-11] Compliance Requirements [326 IAC 2-1.1-11] Pliance Monitoring Requirements [326 IAC 2-6.1-5(a)(2)] | |
| C.8 C.7 Testi C.8 Com C.9 | Open Burning [326 IAC 4-1] [IC 13-17-9] Incineration [326 IAC 4-2] [326 IAC 9-1-2] Fugitive Dust Emissions [326 IAC 6-4] Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M] Ing Requirements [326 IAC 2-6.1-5(a)(2)] Performance Testing [326 IAC 3-6] Pliance Requirements [326 IAC 2-1.1-11] Compliance Requirements [326 IAC 2-1.1-11] Pliance Monitoring Requirements [326 IAC 2-6.1-5(a)(2)] Compliance Monitoring [326 IAC 2-1.1-11] | |
| C.8 C.7 Testi C.8 Com C.9 | Open Burning [326 IAC 4-1] [IC 13-17-9] Incineration [326 IAC 4-2] [326 IAC 9-1-2] Fugitive Dust Emissions [326 IAC 6-4] Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M] Ing Requirements [326 IAC 2-6.1-5(a)(2)] Performance Testing [326 IAC 3-6] Pliance Requirements [326 IAC 2-1.1-11] Compliance Requirements [326 IAC 2-1.1-11] Pliance Monitoring Requirements [326 IAC 2-6.1-5(a)(2)] Compliance Monitoring [326 IAC 2-1.1-11] | |
| C.8 C.7 Testi C.8 Com C.9 | Open Burning [326 IAC 4-1] [IC 13-17-9] Incineration [326 IAC 4-2] [326 IAC 9-1-2] Fugitive Dust Emissions [326 IAC 6-4] Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M] Ing Requirements [326 IAC 2-6.1-5(a)(2)] Performance Testing [326 IAC 3-6] Pliance Requirements [326 IAC 2-1.1-11] Compliance Requirements [326 IAC 2-1.1-11] Pliance Monitoring Requirements [326 IAC 2-6.1-5(a)(2)] Compliance Monitoring [326 IAC 2-1.1-11] | |
| C.8 C.7 Testi C.8 Com C.9 | Open Burning [326 IAC 4-1] [IC 13-17-9] Incineration [326 IAC 4-2] [326 IAC 9-1-2] Fugitive Dust Emissions [326 IAC 6-4] Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M] Ing Requirements [326 IAC 2-6.1-5(a)(2)] Performance Testing [326 IAC 3-6] Pliance Requirements [326 IAC 2-1.1-11] Compliance Requirements [326 IAC 2-1.1-11] Pliance Monitoring Requirements [326 IAC 2-6.1-5(a)(2)] Compliance Monitoring [326 IAC 2-1.1-11] Instrument Specifications [326 IAC 2-1.1-11] Petive Actions and Response Steps | |
| C.6 C.7 Testi C.6 Com C.6 Com | Open Burning [326 IAC 4-1] [IC 13-17-9] Incineration [326 IAC 4-2] [326 IAC 9-1-2] Fugitive Dust Emissions [326 IAC 6-4] Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M] Ing Requirements [326 IAC 2-6.1-5(a)(2)] Performance Testing [326 IAC 3-6] Pliance Requirements [326 IAC 2-1.1-11] Compliance Requirements [326 IAC 2-1.1-11] Pliance Monitoring Requirements [326 IAC 2-1.1-11] Instrument Specifications [326 IAC 2-1.1-11] Petive Actions and Response Steps Response to Excursions or Exceedances | |
| C.6 C.7 Testi C.8 Com C.6 Corre C.7 | Open Burning [326 IAC 4-1] [IC 13-17-9] Incineration [326 IAC 4-2] [326 IAC 9-1-2] Fugitive Dust Emissions [326 IAC 6-4] Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M] Ing Requirements [326 IAC 2-6.1-5(a)(2)] Performance Testing [326 IAC 3-6] Pliance Requirements [326 IAC 2-1.1-11] Compliance Requirements [326 IAC 2-1.1-11] Pliance Monitoring Requirements [326 IAC 2-1.1-11] Instrument Specifications [326 IAC 2-1.1-11] Petive Actions and Response Steps Response to Excursions or Exceedances | |
| C.6 C.7 Testi C.6 Com C.6 Corre C.6 | Open Burning [326 IAC 4-1] [IC 13-17-9] Incineration [326 IAC 4-2] [326 IAC 9-1-2] Fugitive Dust Emissions [326 IAC 6-4] Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M] Ing Requirements [326 IAC 2-6.1-5(a)(2)] Performance Testing [326 IAC 3-6] Pliance Requirements [326 IAC 2-1.1-11] Compliance Requirements [326 IAC 2-1.1-11] Pliance Monitoring Requirements [326 IAC 2-1.1-11] Compliance Monitoring [326 IAC 2-1.1-11] Instrument Specifications [326 IAC 2-1.1-11] Petive Actions and Response Steps Response to Excursions or Exceedances Actions Related to Noncompliance Demonstrated by a Stack Test Pord Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)] | |

| C.15 C.16 | General Record Keeping Requirements [326 IAC 2-6.1-5] General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13] | |
|------------------------------|---|----|
| D.1. EMISSI | ONS UNIT OPERATION CONDITIONS | 18 |
| Emission D.1.1 D.1.2 | Limitations and Standards [326 IAC 2-6.1-5(a)(1)] VOC Limitation [326 IAC 8-1-6] Preventive Maintenance [326 IAC 1-6-3] | |
| Record Kee D.1.3 D.1.4 | ping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)] Record Keeping Requirements Reporting Requirements | |
| D.2. EMISSI | ONS UNIT OPERATION CONDITIONS | 19 |
| Emission D.2.1 | Limitations and Standards [326 IAC 2-6.1-5(a)(1)] Preventive Maintenance [326 IAC 1-6-3] | |
| Complian D.2.2 | ce Determination Requirements Particulate Control [326 IAC 6.5] | |
| D.3. EMISSI | ONS UNIT OPERATION CONDITIONS | 20 |
| Emission D.3.1 | Limitations and Standards [326 IAC 2-6.1-5(a)(1)] Particulate [326 IAC 6-2-4] | |
| D.4. EMISSI | ONS UNIT OPERATION CONDITIONS | 21 |
| Emission D.4.1 | Limitations and Standards [326 IAC 2-6.1-5(a)(1)] Volatile Organic Compounds (VOC) [326 IAC 8-3-2] | |
| E.1. EMISSI | ONS UNIT OPERATION CONDITIONS | 22 |
| Emission E.1.1 E.1.2 | Limitations and Standards [326 IAC 2-6.1-5(a)(1)] General Provisions Relating to NESHAP [326 IAC 20-1] [40 CFR 63, Subpart A] Reciprocating Internal Combustion Engines NESHAP [40 CFR Part 63, Subpart ZZZZ] [326 IAC 20-82] | |
| Quarterly Re | ication eport Report | 24 |

Attachment A: Reciprocating Internal Combustion Engines NESHAP [40 CFR Part 63, Subpart ZZZZ]

Harlan Bakeries - GT, LLC Page 4 of 26 Indianapolis, Indiana M097-32467-00637

Permit Reviewer: Brian Wright

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 bakery.

Source Address: 7575 Georgetown Road, Indianapolis, Indiana 46268

General Source Phone Number: 317-272-3600

SIC Code: 2051 (Bread, Cake, and Related Products)

County Location: Marion

Source Location Status: Nonattainment for PM2.5 standard

Attainment for all other criteria pollutants

Source Status: Minor Source Operating Permit Program

Minor Source, under PSD and Emission Offset Rules

Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary

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

- (a) One (1) Bagel Line, including one (1) Natural Gas-fired Bagel Oven, identified as OVEN-1003, with other ancillary baking equipment, constructed in 2008, equipped with three (3) heat zones, with a maximum heat input capacity of 5.25 MMBtu/hr, having a maximum throughput capacity of 1.56 tons of baked product per hour, and exhausting to three (3) stacks, identified as OVEN-1003-N, OVEN-1003-C, and OVEN-1003-S.
- (b) One (1) Raw Material Area, constructed in June 2004, including:
 - (1) Two (2) flour storage silos identified as Emission Unit S-1 and S-2, each with a capacity of 100,000 lb of flour and a maximum throughput capacity of 45,000 lb/hr of flour, each controlled by an integral bin vent cartridge filter;
 - (2) A day bin with a throughput capacity of 90,000 lb/hr controlled by an integral bin vent cartridge filter;
 - (3) A dough mixing operation controlled by a pulse jet baghouse.
- (c) Two (2) Natural Gas-fired Steam Boilers, identified as BOILER-S-1000 and BOILER-S-1001, constructed in 2004 and 2008, respectively, with a maximum heat input capacity of 6.3 MMBtu/hr each, and exhausting to Stack BOILER-S-1000 and Stack BOILER-S-1001, respectively.
- (d) Various natural gas-fired combustion units, with heat input equal to or less than ten million (10,000,000) Btu per hour, including:
 - (1) Three (3) pan washers:

Page 5 of 26 M097-32467-00637

Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright

- (i) One (1) pan washer, identified as WASHER-0205, constructed in 2006, with a maximum capacity of 0.15 MMBtu/hr, and exhausted to Stack WASHER-0205-E and Stack WASHER-0205-W.
- (ii) One (1) rack washer, identified as WASHER-0200, constructed in 2008, with a maximum capacity of 0.5 MMBtu/hr, and exhausting to Stack WASHER-0200.
- (iii) One (1) tote washer, identified as WASHER-1011, constructed in 2008, with a maximum capacity of 1.0 MMBtu/hr, and exhausted to Stack WASHER-1011-N, Stack WASHER-1011-N-C, WASHER-1011-S-C, and WASHER-1011-S.

(2) HVAC and Heater units:

- (i) Eleven (11) HVAC units constructed in 2004, with a total heat input capacity of 2.17 MMBtu/hr.
- (ii) Twenty (20) HVAC units constructed in 2008, with a total heat input of 3.43 MMBtu/hr.
- (iii) One (1) HVAC unit constructed in 2010, with a total heat input capacity of 0.036 MMBtu/hr.
- (iv) Three (3) heaters constructed in 2011, with a total heat input capacity of 0.09 MMBtu/hr.
- (v) Fifteen (15) HVAC units constructed in 2011, with a total heat input capacity of 9.26 MMBtu/hr.
- (vi) Three (3) HVAC units constructed in 2012, with a total heat input capacity of 0.54 MMBtu/hr.
- (3) One (1) Loaf Cake Oven, identified as OVEN-1000, with a heat input capacity of 3.094 MMBtu/hr, constructed in June 2004, and exhausted to Stack OVEN-1000-E, Stack OVEN-1000-C, and Stack OVEN-1000-W.
- (4) One (1) Pie Oven, identified as OVEN-1002, with a maximum heat input capacity of 8.40 MMBtu/hr, constructed in June 2004, and exhausting to Stack OVEN-1002-E, Stack OVEN-1002-E-C, Stack OVEN-1002-W-C, and Stack OVEN-1002-W.
- One (1) R&D baking oven, identified as OVEN-R-1000, constructed in June 2004, with a maximum heat input capacity of 0.343 MMBtu/hr, and exhausting to Stack OVEN-R-1000.
- (6) One (1) granola and cookie oven, identified as OVEN-R-1004, constructed in 2007, with maximum heat input capacities of 0.343 MMBtu/hr, exhausting to stacks OVEN-1104-N and OVEN-1004-S.
- (7) One (1) granola and cookie oven, identified as OVEN-R-1005, constructed in 2007, with a maximum heat input capacity of 0.343 MMBtu/hr, exhausting to stacks OVEN-1105-N and OVEN-1005-S.
- (8) One (1) granola and cookie oven, identified as OVEN-R-1006, constructed in 2007, with a maximum heat input capacity of 0.343 MMBtu/hr, exhausting to stacks OVEN-1106-N and OVEN-1006-S.

Harlan Bakeries - GT, LLC Page 6 of 26 Indianapolis, Indiana M097-32467-00637

Permit Reviewer: Brian Wright

(9) One (1) granola and cookie oven, identified as OVEN-R-1007, constructed in 2011, with a maximum heat input capacity of 0.343 MMBtu/hr, exhausting to stacks OVEN-1107-N and OVEN-1007-S.

- (10) One (1) granola and cookie oven, identified as OVEN-R-1008, constructed in 2011, with a maximum heat input capacity of 0.343 MMBtu/hr, exhausting to stacks OVEN-1108-N and OVEN-1008-S.
- (11) One (1) natural gas-fired double rack oven, identified as OVEN-1009, constructed in 2012, with a heat input capacity of 0.343 MMBtu/hr, and exhausting to stacks OVEN-R-1009-N and OVEN-R-1009-S.
- (12) One (1) natural gas-fired double rack oven, identified as OVEN-1010, constructed in 2012, with a heat input capacity of 0.343 MMBtu/hr, and exhausting to stacks OVEN-R-1010-N and OVEN-R-1010-S.
- (13) One (1) natural gas-fired tote washer, identified as WASHER-1001, constructed in 2012, with a heat input capacity of 0.695 MMBtu/hr, exhausting to Stack WASHER-1001.
- (14) One (1) natural gas-fired boiler, identified as BOILER-1001, constructed in 2012, with a heat input capacity of 2.50 MMBtu/hr, and exhausting to Stack BOILER-1001.
- (15) One (1) natural gas-fired boiler, identified as BOILER-1002, constructed in 2012, with a heat input capacity of 2.50 MMBtu/hr, and exhausting to Stack BOILER-1002.
- (16) One (1) natural gas-fired oven, identified as OVEN-1101, constructed in 2012, with a heat input capacity of 4.50 MMBtu/hr, exhausting to stacks OVEN-1101-N, OVEN-1101-C, and OVEN-1101-S.
- (17) One (1) natural gas-fired oven, identified as OVEN-1102, constructed in 2012, with a heat input capacity of 4.50 MMBtu/hr, exhausting to stacks OVEN-1102-N, OVEN-1102-C, and OVEN-1102-S.
- (18) One (1) natural gas-fired oven, identified as OVEN-1103, constructed in 2012, with a heat input capacity of 4.50 MMBtu/hr, exhausting to stacks OVEN-1103-N, OVEN-1103-C, and OVEN-1103-S.
- (e) One (1) 60 kW natural gas Emergency Generator, identified as Emission Unit EG-1, constructed in June 2004, with a maximum rated capacity of 0.789 MMBtu/hr.
 - Under the NESHAP for Stationary Reciprocating Internal Combustion Engines (40 CFR 63, Subpart ZZZZ), EG-1 is considered an affected facility.
- (f) Degreasing operations that do not exceed 145 gallons per 12 months, constructed in June 2004, and equipped with a remote solvent reservoir. [326 IAC 8-3-2]
- (g) Twelve (12) inkjet printers, constructed in 2004, with a maximum of seven (7) printers used on the lines at one time, for printing date stamp and recall code on packaging, with 147 gallons of ink used annually. The five (5) extra printers are available for rotation for preventive maintenance or repair purposes.

Harlan Bakeries - GT, LLC Page 7 of 26 Indianapolis, Indiana M097-32467-00637

Permit Reviewer: Brian Wright

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, M097-32467-00637, 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.

Harlan Bakeries - GT, LLC Page 8 of 26 Indianapolis, Indiana M097-32467-00637

Permit Reviewer: Brian Wright

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:

Harlan Bakeries - GT, LLC Page 9 of 26 Indianapolis, Indiana M097-32467-00637

Permit Reviewer: Brian Wright

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 M097-32467-00637 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

Harlan Bakeries - GT, LLC Page 10 of 26 Indianapolis, Indiana M097-32467-00637

Permit Reviewer: Brian Wright

(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 a notice-only change. [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

Page 11 of 26 M097-32467-00637

Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright

(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 notice-only changes addressed in the request for a notice-only change 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 317-233-4230 (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.

Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright

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.

Harlan Bakeries - GT, LLC Page 13 of 26 Indianapolis, Indiana M097-32467-00637

Permit Reviewer: Brian Wright

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(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project.

(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.

Harlan Bakeries - GT, LLC Page 14 of 26 Indianapolis, Indiana M097-32467-00637

Permit Reviewer: Brian Wright

(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.

Page 15 of 26 M097-32467-00637

Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright

(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

- 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

Harlan Bakeries - GT, LLC Page 16 of 26 Indianapolis, Indiana M097-32467-00637

Permit Reviewer: Brian Wright

(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, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall 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 facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.
- (c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).
- (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

Harlan Bakeries - GT, LLC Page 17 of 26 Indianapolis, Indiana M097-32467-00637

Permit Reviewer: Brian Wright

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.

Page 18 of 26 M097-32467-00637

Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(a) One (1) Bagel Line, including one (1) Natural Gas-fired Bagel Oven, identified as OVEN-1003, with other ancillary baking equipment, constructed in 2008, equipped with three (3) heat zones, with a maximum heat input capacity of 5.25 MMBtu/hr, having a maximum throughput capacity of 1.56 tons of baked product per hour, and exhausting to three (3) stacks, identified as OVEN-1003-N, OVEN-1003-C, and OVEN-1003-S.

(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 VOC Limitation [326 IAC 8-1-6]

In order to render the requirements of 326 IAC 8-1-6 not applicable, the Permittee shall comply with the following:

- (a) The total amount of baked products produced in the Bagel Line shall be less than 12,500 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
- (b) VOC emissions from the Bagel Oven (OVEN-1003) shall not exceed 3.596 pounds per ton of baked product; and
- (c) VOC emissions from the Bagel Line Ancillary Baking Equipment shall not exceed 0.3596 pounds per ton of baked product.

Compliance with these limits shall limit the total VOC emissions from the Bagel Line to less than twenty five (25) tons per twelve (12) consecutive month period, and shall render the requirements of 326 IAC 8-1-6 (New Facilities: General Reduction Requirements) not applicable.

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

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

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

D.1.3 Record Keeping Requirements

- (a) To document the compliance status with Conditions D.1.1(a), the Permittee shall maintain records of the amount of baked products produced in the Bagel Line each month and each compliance period.
- (b) Section C General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.

D.1.4 Reporting Requirements

A quarterly summary of the information to document the compliance status with Condition D.1.1(a) shall be submitted using the reporting form located at the end of this permit, or its equivalent, no later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition.

Page 19 of 26 M097-32467-00637

Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (b) One (1) Raw Material Area, constructed in June 2004, including:
 - (1) Two (2) flour storage silos identified as Emission Unit S-1 and S-2, each with a capacity of 100,000 lb of flour and a maximum throughput capacity of 45,000 lb/hr of flour, each controlled by an integral bin vent cartridge filter;
 - (2) A day bin with a throughput capacity of 90,000 lb/hr controlled by an integral bin vent cartridge filter;
 - (3) A dough mixing operation controlled by a pulse jet baghouse.

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

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

D.2.1 Preventive Maintenance [326 IAC 1-6-3]

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

Compliance Determination Requirements

D.2.2 Particulate Control [326 IAC 6.5]

In order to ensure that the source is exempt from the requirements of 326 IAC 6.5 (PM Limitations Except Lake County), the integral bin vent cartridge filters used for particulate control in the Raw Material Area shall be in operation and control emissions from the flour storage silos and day bin at all times when the storage silos and day bin are in operation.

Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (c) Two (2) Natural Gas-fired Steam Boilers, identified as BOILER-S-1000 and BOILER-S-1001, constructed in 2004 and 2008, respectively, with a maximum heat input capacity of 6.3 MMBtu/hr each, and exhausting to Stack BOILER-S-1000 and Stack BOILER-S-1001, respectively.
- (d) Various natural gas-fired combustion units, with heat input equal to or less than ten million (10,000,000) Btu per hour, including:
 - One (1) natural gas-fired boiler, identified as BOILER-1001, constructed in 2012, with a heat input capacity of 2.50 MMBtu/hr, and exhausting to Stack BOILER-1001.
 - One (1) natural gas-fired boiler, identified as BOILER-1002, constructed in 2012, with a heat input capacity of 2.50 MMBtu/hr, and exhausting to Stack BOILER-1002.

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

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

D.3.1 Particulate [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4(a), particulate emissions from indirect heating facilities constructed after September 21, 1983, shall be limited using the following equation:

 $Pt = 1.09/Q^{0.26}$

where:

Pt = pounds of particulate matter (PM) emitted per MMBtu heat input

Q = total source maximum operating capacity rating in million British thermal units per hour (MMBtu/hr) heat input

For Q less than 10 MMBtu/hr, Pt shall not exceed 0.6.

| | Year | Q | Pt Limit |
|---------------|-------------|--------------------------------|------------|
| Unit ID | Constructed | (MMBtu/hr) | (lb/MMBtu) |
| BOILER-S-1000 | 2004 | 6.3 | 0.60 |
| BOILER-S-1001 | 2008 | 6.3 + 6.3 = 12.6 | 0.56 |
| BOILER-1001, | 2012 | 6.3 + 6.3 + 2.50 + 2.50 = 17.6 | 0.52, 0.52 |
| BOILER-1002 | 2012 | 0.3 + 0.3 + 2.30 + 2.30 = 17.6 | 0.52, 0.52 |

Page 21 of 26 M097-32467-00637

Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright

SECTION D.4 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(f) Degreasing operations that do not exceed 145 gallons per 12 months, constructed in June 2004, and equipped with a remote solvent reservoir. [326 IAC 8-3-5][326 IAC 8-3-2].

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

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

D.4.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for each cold cleaning operation constructed after January 1, 1980, and equipped with a remote solvent reservoir, the Permittee shall comply with the following:

- (a) The owner or operator of a cold cleaner degreaser shall ensure the following control equipment and operating requirements are met:
 - (1) Equip the degreaser with a cover.
 - (2) Equip the degreaser with a device for draining cleaned parts.
 - (3) Close the degreaser cover whenever parts are not being handled in the degreaser.
 - (4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases.
 - (5) Provide a permanent, conspicuous label that lists the operating requirements in subdivisions (3), (4), (6), and (7).
 - (6) Store waste solvent only in closed containers.
 - (7) Prohibit the disposal or transfer of waste solvent in such a manner that could allow greater than twenty percent (20%) of the waste solvent (by weight) to evaporate into the atmosphere.

Page 22 of 26 M097-32467-00637

Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright

SECTION E.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(e) One (1) 60 kW natural gas Emergency Generator, identified as Emission Unit EG-1, constructed in June 2004, with a maximum rated capacity of 0.789 MMBtu/hr.

Under the NESHAP for Stationary Reciprocating Internal Combustion Engines (40 CFR 63, Subpart ZZZZ), EG-1 is considered an affected facility.

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

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

E.1.1 General Provisions Relating to NESHAP [326 IAC 20-1] [40 CFR 63, Subpart A]

Pursuant to 40 CFR 63.6665, 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, except as otherwise specified in 40 CFR 63, Subpart ZZZZ.

E.1.2 Reciprocating Internal Combustion Engines NESHAP [40 CFR Part 63, Subpart ZZZZ] [326 IAC 20-82]

The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart ZZZZ (included as Attachment A of this permit), which are incorporated by reference as 326 IAC 20-82, except as otherwise specified in 40 CFR Part 63, Subpart ZZZZ, for natural gas-fired emergency generator (EG-1):

- (a) 40 CFR 63.6580
- (b) 40 CFR 63.6585
- (c) 40 CFR 63.6590(a)(1)(iii) and (iv)
- (d) 40 CFR 63.6595(a)(1), (b), and (c)
- (e) 40 CFR 63.6603(a)
- (f) 40 CFR 63.6605
- (g) 40 CFR 63.6625(e)(3), (f), (h), and (j)
- (h) 40 CFR 63.6635
- (i) 40 CFR 63.6640(a), (b), (e), and (f)
- (j) 40 CFR 63.6645(a)(5)
- (k) 40 CFR 63.6650
- (I) 40 CFR 63.6655
- (m) 40 CFR 63.6660
- (n) 40 CFR 63.6665
- (o) 40 CFR 63.6670
- (p) 40 CFR 63.6675
- (q) Table 2d (item 5)
- (r) Table 6 (item 9)
- (s) Table 8

Harlan Bakeries - GT, LLC Page 23 of 26 Indianapolis, Indiana M097-32467-00637

Permit Reviewer: Brian Wright

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: | Harlan Bakeries - GT, LLC | |
|----------------------------|-----------------------------|---|
| Address: | 7575 Georgetown Road | |
| City: | Indianapolis, Indiana 46268 | |
| Phone #: | 317-272-3600 | |
| MSOP #: | M097-32467-00637 | |
| I hereby certify that Harl | an Bakeries - GT, LLC is : | □ still in operation. |
| I hereby certify that Harl | an Bakeries - GT, LLC is : | □ no longer in operation. □ in compliance with the requirements of MSOP M097-32467-00637. □ not in compliance with the requirements of MSOP M097-32467-00637. |
| Authorized Individual | (typed): | |
| Title: | | |
| Signature: | | |
| Date: | | |
| | | source is not in compliance, provide a narrative nce and the date compliance was, or will be |
| Noncompliance: | | |
| | | |
| | | |
| | | |
| | | |

Page 24 of 26 M097-32467-00637

Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright

Indiana Department of Environmental Management Office of Air Quality Compliance and Enforcement Branch

Quarterly Report

| Source Name: Harlan Bakeries - GT, LLC Source Address: 7575 Georgetown Road, Indianapolis, IN 46268 MSOP Permit No.: M097-32467-00637 Facility: Bagel Line including Bagel Oven OVEN-1003 Parameter: The amount of baked products produced in the Bagel Line The total amount of baked products produced in the Bagel Line shall be less than 12,500 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. QUARTER: YEAR: | | | |
|--|-------------------|--------------------|---------------------|
| | Column 1 | Column 2 | Column 1 + Column 2 |
| Month | This Month | Previous 11 Months | 12 Month Total |
| | | | |
| | | | |
| | | | |
| □ No deviation occurred in this quarter. □ Deviation/s occurred in this quarter. □ Deviation has been reported on: Submitted by: | | | |
| Title | Title / Position: | | |
| Signature: | | | |

Phone:

Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright

*SEE PAGE 2

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 and to qualify for the exemption under 326 IAC 1-6-4. 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(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 THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT? Y COMPANY: ____PHONE NO. ()____ LOCATION: (CITY AND COUNTY)_ _ AFS POINT ID: _____ INSP:__ AFS PLANT ID: PERMIT NO. 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:

Harlan Bakeries - GT, LLC Page 26 of 26 Indianapolis, Indiana M097-32467-00637

Permit Reviewer: Brian Wright

Please note - This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

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: | | | |
|---|--|--|--|
| | | | |
| | | | |

Attachment A, NESHAP

40 CFR 63, Subpart ZZZZ

National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

> Harlan Bakeries - GT, LLC 7575 Georgetown Rd Indianapolis, IN 46268

Permit No. M097-32467-00637

Harlan Bakeries - GT, LLC Page 2 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Indianapolis, Indiana Permit Reviewer: Brian Wright

Title 40: Protection of Environment

PART 63—NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR SOURCE CATEGORIES (CONTINUED)

Subpart ZZZZ—National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Source: 69 FR 33506, June 15, 2004, unless otherwise noted.

What This Subpart Covers

§ 63.6580 What is the purpose of subpart ZZZZ?

Subpart ZZZZ establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emitted from stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limitations and operating limitations.

[73 FR 3603, Jan. 18, 2008]

§ 63.6585 Am I subject to this subpart?

You are subject to this subpart if you own or operate a stationary RICE at a major or area source of HAP emissions, except if the stationary RICE is being tested at a stationary RICE test cell/stand.

- (a) A stationary RICE is any internal combustion engine which uses reciprocating motion to convert heat energy into mechanical work and which is not mobile. Stationary RICE differ from mobile RICE in that a stationary RICE is not a non-road engine as defined at 40 CFR 1068.30, and is not used to propel a motor vehicle or a vehicle used solely for competition.
- (b) A major source of HAP emissions is a plant site that emits or has the potential to emit any single HAP at a rate of 10 tons (9.07 megagrams) or more per year or any combination of HAP at a rate of 25 tons (22.68 megagrams) or more per year, except that for oil and gas production facilities, a major source of HAP emissions is determined for each surface site.
- (c) An area source of HAP emissions is a source that is not a major source.
- (d) If you are an owner or operator of an area source subject to this subpart, your status as an entity subject to a standard or other requirements under this subpart does not subject you to the obligation to obtain a permit under 40 CFR part 70 or 71, provided you are not required to obtain a permit under 40 CFR 70.3(a) or 40 CFR 71.3(a) for a reason other than your status as an area source under this subpart. Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart as applicable.
- (e) If you are an owner or operator of a stationary RICE used for national security purposes, you may be eligible to request an exemption from the requirements of this subpart as described in 40 CFR part 1068, subpart C.
- (f) The emergency stationary RICE listed in paragraphs (f)(1) through (3) of this section are not subject to this subpart. The stationary RICE must meet the definition of an emergency stationary RICE in § 63.6675, which includes operating according to the provisions specified in § 63.6640(f).

Harlan Bakeries - GT, LLC Page 3 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

(1) Existing residential emergency stationary RICE located at an area source of HAP emissions that do not operate or are not contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in § 63.6640(f)(2)(ii) and (iii) and that do not operate for the purpose specified in § 63.6640(f)(4)(ii).

- (2) Existing commercial emergency stationary RICE located at an area source of HAP emissions that do not operate or are not contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in § 63.6640(f)(2)(ii) and (iii) and that do not operate for the purpose specified in § 63.6640(f)(4)(ii).
- (3) Existing institutional emergency stationary RICE located at an area source of HAP emissions that do not operate or are not contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in § 63.6640(f)(2)(ii) and (iii) and that do not operate for the purpose specified in § 63.6640(f)(4)(ii).

[69 FR 33506, June 15, 2004, as amended at 73 FR 3603, Jan. 18, 2008; 78 FR 6700, Jan. 30, 2013]

§ 63.6590 What parts of my plant does this subpart cover?

This subpart applies to each affected source.

- (a) Affected source. An affected source is any existing, new, or reconstructed stationary RICE located at a major or area source of HAP emissions, excluding stationary RICE being tested at a stationary RICE test cell/stand.
- (1) Existing stationary RICE.
- (i) For stationary RICE with a site rating of more than 500 brake horsepower (HP) located at a major source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before December 19, 2002.
- (ii) For stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.
- (iii) For stationary RICE located at an area source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.
- (iv) A change in ownership of an existing stationary RICE does not make that stationary RICE a new or reconstructed stationary RICE.
- (2) New stationary RICE. (i) A stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions is new if you commenced construction of the stationary RICE on or after December 19, 2002.
- (ii) A stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions is new if you commenced construction of the stationary RICE on or after June 12, 2006.
- (iii) A stationary RICE located at an area source of HAP emissions is new if you commenced construction of the stationary RICE on or after June 12, 2006.

Harlan Bakeries - GT, LLC Page 4 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

(3) Reconstructed stationary RICE. (i) A stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions is reconstructed if you meet the definition of reconstruction in § 63.2 and reconstruction is commenced on or after December 19, 2002.

- (ii) A stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions is reconstructed if you meet the definition of reconstruction in § 63.2 and reconstruction is commenced on or after June 12, 2006.
- (iii) A stationary RICE located at an area source of HAP emissions is reconstructed if you meet the definition of reconstruction in § 63.2 and reconstruction is commenced on or after June 12, 2006.
- (b) Stationary RICE subject to limited requirements. (1) An affected source which meets either of the criteria in paragraphs (b)(1)(i) through (ii) of this section does not have to meet the requirements of this subpart and of subpart A of this part except for the initial notification requirements of § 63.6645(f).
- (i) The stationary RICE is a new or reconstructed emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that does not operate or is not contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in § 63.6640(f)(2)(ii) and (iii).
- (ii) The stationary RICE is a new or reconstructed limited use stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions.
- (2) A new or reconstructed stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis must meet the initial notification requirements of § 63.6645(f) and the requirements of §§ 63.6625(c), 63.6650(g), and 63.6655(c). These stationary RICE do not have to meet the emission limitations and operating limitations of this subpart.
- (3) The following stationary RICE do not have to meet the requirements of this subpart and of subpart A of this part, including initial notification requirements:
- (i) Existing spark ignition 2 stroke lean burn (2SLB) stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions;
- (ii) Existing spark ignition 4 stroke lean burn (4SLB) stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions;
- (iii) Existing emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that does not operate or is not contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in § 63.6640(f)(2)(ii) and (iii).
- (iv) Existing limited use stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions;
- (v) Existing stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis;
- (c) Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part

Harlan Bakeries - GT, LLC Page 5 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

60 subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under this part.

- (1) A new or reconstructed stationary RICE located at an area source;
- (2) A new or reconstructed 2SLB stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions;
- (3) A new or reconstructed 4SLB stationary RICE with a site rating of less than 250 brake HP located at a major source of HAP emissions;
- (4) A new or reconstructed spark ignition 4 stroke rich burn (4SRB) stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions;
- (5) A new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis;
- (6) A new or reconstructed emergency or limited use stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions;
- (7) A new or reconstructed compression ignition (CI) stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions.

[69 FR 33506, June 15, 2004, as amended at 73 FR 3604, Jan. 18, 2008; 75 FR 9674, Mar. 3, 2010; 75 FR 37733, June 30, 2010; 75 FR 51588, Aug. 20, 2010; 78 FR 6700, Jan. 30, 2013]

§ 63.6595 When do I have to comply with this subpart?

- (a) Affected sources. (1) If you have an existing stationary RICE, excluding existing non-emergency CI stationary RICE, with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must comply with the applicable emission limitations, operating limitations and other requirements no later than June 15, 2007. If you have an existing non-emergency CI stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, an existing stationary CI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, or an existing stationary CI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations, operating limitations, and other requirements no later than May 3, 2013. If you have an existing stationary SI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, or an existing stationary SI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations, operating limitations, and other requirements no later than October 19, 2013.
- (2) If you start up your new or reconstructed stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions before August 16, 2004, you must comply with the applicable emission limitations and operating limitations in this subpart no later than August 16, 2004.
- (3) If you start up your new or reconstructed stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions after August 16, 2004, you must comply with the applicable emission limitations and operating limitations in this subpart upon startup of your affected source.
- (4) If you start up your new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions before January 18, 2008, you must comply with the applicable emission limitations and operating limitations in this subpart no later than January 18, 2008.

Harlan Bakeries - GT, LLC Page 6 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

(5) If you start up your new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions after January 18, 2008, you must comply with the applicable emission limitations and operating limitations in this subpart upon startup of your affected source.

- (6) If you start up your new or reconstructed stationary RICE located at an area source of HAP emissions before January 18, 2008, you must comply with the applicable emission limitations and operating limitations in this subpart no later than January 18, 2008.
- (7) If you start up your new or reconstructed stationary RICE located at an area source of HAP emissions after January 18, 2008, you must comply with the applicable emission limitations and operating limitations in this subpart upon startup of your affected source.
- (b) Area sources that become major sources. If you have an area source that increases its emissions or its potential to emit such that it becomes a major source of HAP, the compliance dates in paragraphs (b)(1) and (2) of this section apply to you.
- (1) Any stationary RICE for which construction or reconstruction is commenced after the date when your area source becomes a major source of HAP must be in compliance with this subpart upon startup of your affected source.
- (2) Any stationary RICE for which construction or reconstruction is commenced before your area source becomes a major source of HAP must be in compliance with the provisions of this subpart that are applicable to RICE located at major sources within 3 years after your area source becomes a major source of HAP.
- (c) If you own or operate an affected source, you must meet the applicable notification requirements in § 63.6645 and in 40 CFR part 63, subpart A.

[69 FR 33506, June 15, 2004, as amended at 73 FR 3604, Jan. 18, 2008; 75 FR 9675, Mar. 3, 2010; 75 FR 51589, Aug. 20, 2010; 78 FR 6701, Jan. 30, 2013]

Emission and Operating Limitations

§ 63.6600 What emission limitations and operating limitations must I meet if I own or operate a stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions?

Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in § 63.6620 and Table 4 to this subpart.

- (a) If you own or operate an existing, new, or reconstructed spark ignition 4SRB stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must comply with the emission limitations in Table 1a to this subpart and the operating limitations in Table 1b to this subpart which apply to you.
- (b) If you own or operate a new or reconstructed 2SLB stationary RICE with a site rating of more than 500 brake HP located at major source of HAP emissions, a new or reconstructed 4SLB stationary RICE with a site rating of more than 500 brake HP located at major source of HAP emissions, or a new or reconstructed CI stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must comply with the emission limitations in Table 2a to this subpart and the operating limitations in Table 2b to this subpart which apply to you.

Harlan Bakeries - GT, LLC Page 7 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

(c) If you own or operate any of the following stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the emission limitations in Tables 1a, 2a, 2c, and 2d to this subpart or operating limitations in Tables 1b and 2b to this subpart: an existing 2SLB stationary RICE; an existing 4SLB stationary RICE; a stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis; an emergency stationary RICE; or a limited use stationary RICE.

(d) If you own or operate an existing non-emergency stationary CI RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must comply with the emission limitations in Table 2c to this subpart and the operating limitations in Table 2b to this subpart which apply to you.

[73 FR 3605, Jan. 18, 2008, as amended at 75 FR 9675, Mar. 3, 2010]

§ 63.6601 What emission limitations must I meet if I own or operate a new or reconstructed 4SLB stationary RICE with a site rating of greater than or equal to 250 brake HP and less than or equal to 500 brake HP located at a major source of HAP emissions?

Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in § 63.6620 and Table 4 to this subpart. If you own or operate a new or reconstructed 4SLB stationary RICE with a site rating of greater than or equal to 250 and less than or equal to 500 brake HP located at major source of HAP emissions manufactured on or after January 1, 2008, you must comply with the emission limitations in Table 2a to this subpart and the operating limitations in Table 2b to this subpart which apply to you.

[73 FR 3605, Jan. 18, 2008, as amended at 75 FR 9675, Mar. 3, 2010; 75 FR 51589, Aug. 20, 2010]

§ 63.6602 What emission limitations and other requirements must I meet if I own or operate an existing stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions?

If you own or operate an existing stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions, you must comply with the emission limitations and other requirements in Table 2c to this subpart which apply to you. Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in § 63.6620 and Table 4 to this subpart.

[78 FR 6701, Jan. 30, 2013]

§ 63.6603 What emission limitations, operating limitations, and other requirements must I meet if I own or operate an existing stationary RICE located at an area source of HAP emissions?

Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in § 63.6620 and Table 4 to this subpart.

- (a) If you own or operate an existing stationary RICE located at an area source of HAP emissions, you must comply with the requirements in Table 2d to this subpart and the operating limitations in Table 2b to this subpart that apply to you.
- (b) If you own or operate an existing stationary non-emergency CI RICE with a site rating of more than 300 HP located at an area source of HAP that meets either paragraph (b)(1) or (2) of this section, you do not have to meet the numerical CO emission limitations specified in Table 2d of this subpart. Existing stationary non-emergency CI RICE with a site rating of more than 300 HP located at an area source of HAP that meet either paragraph (b)(1) or (2) of this section must meet the management practices that are

Harlan Bakeries - GT, LLC Page 8 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

shown for stationary non-emergency CI RICE with a site rating of less than or equal to 300 HP in Table 2d of this subpart.

- (1) The area source is located in an area of Alaska that is not accessible by the Federal Aid Highway System (FAHS).
- (2) The stationary RICE is located at an area source that meets paragraphs (b)(2)(i), (ii), and (iii) of this section.
- (i) The only connection to the FAHS is through the Alaska Marine Highway System (AMHS), or the stationary RICE operation is within an isolated grid in Alaska that is not connected to the statewide electrical grid referred to as the Alaska Railbelt Grid.
- (ii) At least 10 percent of the power generated by the stationary RICE on an annual basis is used for residential purposes.
- (iii) The generating capacity of the area source is less than 12 megawatts, or the stationary RICE is used exclusively for backup power for renewable energy.
- (c) If you own or operate an existing stationary non-emergency CI RICE with a site rating of more than 300 HP located on an offshore vessel that is an area source of HAP and is a nonroad vehicle that is an Outer Continental Shelf (OCS) source as defined in 40 CFR 55.2, you do not have to meet the numerical CO emission limitations specified in Table 2d of this subpart. You must meet all of the following management practices:
- (1) Change oil every 1,000 hours of operation or annually, whichever comes first. Sources have the option to utilize an oil analysis program as described in § 63.6625(i) in order to extend the specified oil change requirement.
- (2) Inspect and clean air filters every 750 hours of operation or annually, whichever comes first, and replace as necessary.
- (3) Inspect fuel filters and belts, if installed, every 750 hours of operation or annually, whichever comes first, and replace as necessary.
- (4) Inspect all flexible hoses every 1,000 hours of operation or annually, whichever comes first, and replace as necessary.
- (d) If you own or operate an existing non-emergency CI RICE with a site rating of more than 300 HP located at an area source of HAP emissions that is certified to the Tier 1 or Tier 2 emission standards in Table 1 of 40 CFR 89.112 and that is subject to an enforceable state or local standard that requires the engine to be replaced no later than June 1, 2018, you may until January 1, 2015, or 12 years after the installation date of the engine (whichever is later), but not later than June 1, 2018, choose to comply with the management practices that are shown for stationary non-emergency CI RICE with a site rating of less than or equal to 300 HP in Table 2d of this subpart instead of the applicable emission limitations in Table 2d, operating limitations in Table 2b, and crankcase ventilation system requirements in § 63.6625(g). You must comply with the emission limitations in Table 2d and operating limitations in Table 2b that apply for non-emergency CI RICE with a site rating of more than 300 HP located at an area source of HAP emissions by January 1, 2015, or 12 years after the installation date of the engine (whichever is later), but not later than June 1, 2018. You must also comply with the crankcase ventilation system requirements in § 63.6625(g) by January 1, 2015, or 12 years after the installation date of the engine (whichever is later), but not later than June 1, 2018.

Harlan Bakeries - GT, LLC Page 9 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

(e) If you own or operate an existing non-emergency CI RICE with a site rating of more than 300 HP located at an area source of HAP emissions that is certified to the Tier 3 (Tier 2 for engines above 560 kilowatt (kW)) emission standards in Table 1 of 40 CFR 89.112, you may comply with the requirements under this part by meeting the requirements for Tier 3 engines (Tier 2 for engines above 560 kW) in 40 CFR part 60 subpart IIII instead of the emission limitations and other requirements that would otherwise apply under this part for existing non-emergency CI RICE with a site rating of more than 300 HP located at an area source of HAP emissions.

(f) An existing non-emergency SI 4SLB and 4SRB stationary RICE with a site rating of more than 500 HP located at area sources of HAP must meet the definition of remote stationary RICE in § 63.6675 on the initial compliance date for the engine, October 19, 2013, in order to be considered a remote stationary RICE under this subpart. Owners and operators of existing non-emergency SI 4SLB and 4SRB stationary RICE with a site rating of more than 500 HP located at area sources of HAP that meet the definition of remote stationary RICE in § 63.6675 of this subpart as of October 19, 2013 must evaluate the status of their stationary RICE every 12 months. Owners and operators must keep records of the initial and annual evaluation of the status of the engine. If the evaluation indicates that the stationary RICE no longer meets the definition of remote stationary RICE in § 63.6675 of this subpart, the owner or operator must comply with all of the requirements for existing non-emergency SI 4SLB and 4SRB stationary RICE with a site rating of more than 500 HP located at area sources of HAP that are not remote stationary RICE within 1 year of the evaluation.

[75 FR 9675, Mar. 3, 2010, as amended at 75 FR 51589, Aug. 20, 2010; 76 FR 12866, Mar. 9, 2011; 78 FR 6701, Jan. 30, 2013]

§ 63.6604 What fuel requirements must I meet if I own or operate a stationary CI RICE?

- (a) If you own or operate an existing non-emergency, non-black start CI stationary RICE with a site rating of more than 300 brake HP with a displacement of less than 30 liters per cylinder that uses diesel fuel, you must use diesel fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel fuel.
- (b) Beginning January 1, 2015, if you own or operate an existing emergency CI stationary RICE with a site rating of more than 100 brake HP and a displacement of less than 30 liters per cylinder that uses diesel fuel and operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in § 63.6640(f)(2)(ii) and (iii) or that operates for the purpose specified in § 63.6640(f)(4)(ii), you must use diesel fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to January 1, 2015, may be used until depleted.
- (c) Beginning January 1, 2015, if you own or operate a new emergency CI stationary RICE with a site rating of more than 500 brake HP and a displacement of less than 30 liters per cylinder located at a major source of HAP that uses diesel fuel and operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in § 63.6640(f)(2)(ii) and (iii), you must use diesel fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to January 1, 2015, may be used until depleted.
- (d) Existing CI stationary RICE located in Guam, American Samoa, the Commonwealth of the Northern Mariana Islands, at area sources in areas of Alaska that meet either § 63.6603(b)(1) or § 63.6603(b)(2), or are on offshore vessels that meet § 63.6603(c) are exempt from the requirements of this section.

[78 FR 6702, Jan. 30, 2013]

Harlan Bakeries - GT, LLC Page 10 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

General Compliance Requirements

§ 63.6605 What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emission limitations, operating limitations, and other requirements in this subpart that apply to you at all times.

(b) At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[75 FR 9675, Mar. 3, 2010, as amended at 78 FR 6702, Jan. 30, 2013]

Testing and Initial Compliance Requirements

§ 63.6610 By what date must I conduct the initial performance tests or other initial compliance demonstrations if I own or operate a stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions?

If you own or operate a stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions you are subject to the requirements of this section.

- (a) You must conduct the initial performance test or other initial compliance demonstrations in Table 4 to this subpart that apply to you within 180 days after the compliance date that is specified for your stationary RICE in § 63.6595 and according to the provisions in § 63.7(a)(2).
- (b) If you commenced construction or reconstruction between December 19, 2002 and June 15, 2004 and own or operate stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must demonstrate initial compliance with either the proposed emission limitations or the promulgated emission limitations no later than February 10, 2005 or no later than 180 days after startup of the source, whichever is later, according to § 63.7(a)(2)(ix).
- (c) If you commenced construction or reconstruction between December 19, 2002 and June 15, 2004 and own or operate stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, and you chose to comply with the proposed emission limitations when demonstrating initial compliance, you must conduct a second performance test to demonstrate compliance with the promulgated emission limitations by December 13, 2007 or after startup of the source, whichever is later, according to § 63.7(a)(2)(ix).
- (d) An owner or operator is not required to conduct an initial performance test on units for which a performance test has been previously conducted, but the test must meet all of the conditions described in paragraphs (d)(1) through (5) of this section.
- (1) The test must have been conducted using the same methods specified in this subpart, and these methods must have been followed correctly.
- (2) The test must not be older than 2 years.
- (3) The test must be reviewed and accepted by the Administrator.

Harlan Bakeries - GT, LLC Page 11 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

(4) Either no process or equipment changes must have been made since the test was performed, or the owner or operator must be able to demonstrate that the results of the performance test, with or without adjustments, reliably demonstrate compliance despite process or equipment changes.

(5) The test must be conducted at any load condition within plus or minus 10 percent of 100 percent load.

[69 FR 33506, June 15, 2004, as amended at 73 FR 3605, Jan. 18, 2008]

§ 63.6611 By what date must I conduct the initial performance tests or other initial compliance demonstrations if I own or operate a new or reconstructed 4SLB SI stationary RICE with a site rating of greater than or equal to 250 and less than or equal to 500 brake HP located at a major source of HAP emissions?

If you own or operate a new or reconstructed 4SLB stationary RICE with a site rating of greater than or equal to 250 and less than or equal to 500 brake HP located at a major source of HAP emissions, you must conduct an initial performance test within 240 days after the compliance date that is specified for your stationary RICE in § 63.6595 and according to the provisions specified in Table 4 to this subpart, as appropriate.

[73 FR 3605, Jan. 18, 2008, as amended at 75 FR 51589, Aug. 20, 2010]

§ 63.6612 By what date must I conduct the initial performance tests or other initial compliance demonstrations if I own or operate an existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing stationary RICE located at an area source of HAP emissions?

If you own or operate an existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing stationary RICE located at an area source of HAP emissions you are subject to the requirements of this section.

- (a) You must conduct any initial performance test or other initial compliance demonstration according to Tables 4 and 5 to this subpart that apply to you within 180 days after the compliance date that is specified for your stationary RICE in § 63.6595 and according to the provisions in § 63.7(a)(2).
- (b) An owner or operator is not required to conduct an initial performance test on a unit for which a performance test has been previously conducted, but the test must meet all of the conditions described in paragraphs (b)(1) through (4) of this section.
- (1) The test must have been conducted using the same methods specified in this subpart, and these methods must have been followed correctly.
- (2) The test must not be older than 2 years.
- (3) The test must be reviewed and accepted by the Administrator.
- (4) Either no process or equipment changes must have been made since the test was performed, or the owner or operator must be able to demonstrate that the results of the performance test, with or without adjustments, reliably demonstrate compliance despite process or equipment changes.

[75 FR 9676, Mar. 3, 2010, as amended at 75 FR 51589, Aug. 20, 2010]

Harlan Bakeries - GT, LLC Page 12 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

§ 63.6615 When must I conduct subsequent performance tests?

If you must comply with the emission limitations and operating limitations, you must conduct subsequent performance tests as specified in Table 3 of this subpart.

§ 63.6620 What performance tests and other procedures must I use?

- (a) You must conduct each performance test in Tables 3 and 4 of this subpart that applies to you.
- (b) Each performance test must be conducted according to the requirements that this subpart specifies in Table 4 to this subpart. If you own or operate a non-operational stationary RICE that is subject to performance testing, you do not need to start up the engine solely to conduct the performance test. Owners and operators of a non-operational engine can conduct the performance test when the engine is started up again. The test must be conducted at any load condition within plus or minus 10 percent of 100 percent load for the stationary RICE listed in paragraphs (b)(1) through (4) of this section.
- (1) Non-emergency 4SRB stationary RICE with a site rating of greater than 500 brake HP located at a major source of HAP emissions.
- (2) New non-emergency 4SLB stationary RICE with a site rating of greater than or equal to 250 brake HP located at a major source of HAP emissions.
- (3) New non-emergency 2SLB stationary RICE with a site rating of greater than 500 brake HP located at a major source of HAP emissions.
- (4) New non-emergency CI stationary RICE with a site rating of greater than 500 brake HP located at a major source of HAP emissions.
- (c) [Reserved]
- (d) You must conduct three separate test runs for each performance test required in this section, as specified in § 63.7(e)(3). Each test run must last at least 1 hour, unless otherwise specified in this subpart.
- (e)(1) You must use Equation 1 of this section to determine compliance with the percent reduction requirement:

$$\frac{C_i - C_O}{C_i} \times 100 = R \quad (Eq. \ 1)$$

Where:

C_i = concentration of carbon monoxide (CO), total hydrocarbons (THC), or formaldehyde at the control device inlet.

C_o = concentration of CO, THC, or formaldehyde at the control device outlet, and

R = percent reduction of CO, THC, or formaldehyde emissions.

(2) You must normalize the CO, THC, or formaldehyde concentrations at the inlet and outlet of the control device to a dry basis and to 15 percent oxygen, or an equivalent percent carbon dioxide (CO_2). If pollutant concentrations are to be corrected to 15 percent oxygen and CO_2 concentration is measured in lieu of oxygen concentration measurement, a CO_2 correction factor is needed. Calculate the CO_2 correction factor as described in paragraphs (e)(2)(i) through (iii) of this section.

Harlan Bakeries - GT, LLC Page 13 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

(i) Calculate the fuel-specific F_0 value for the fuel burned during the test using values obtained from Method 19, Section 5.2, and the following equation:

$$F_O = \frac{0.209 \ F_d}{F_C} \ (Eq. 2)$$

Where:

 F_o = Fuel factor based on the ratio of oxygen volume to the ultimate CO_2 volume produced by the fuel at zero percent excess air.

0.209 = Fraction of air that is oxygen, percent/100.

 F_d = Ratio of the volume of dry effluent gas to the gross calorific value of the fuel from Method 19, dsm³ /J (dscf/10⁶ Btu).

 F_c = Ratio of the volume of CO_2 produced to the gross calorific value of the fuel from Method 19, dsm³ /J (dscf/10⁶ Btu)

(ii) Calculate the CO₂ correction factor for correcting measurement data to 15 percent O₂, as follows:

$$X_{CO2} = \frac{5.9}{F_O}$$
 (Eq. 3)

Where:

 X_{CO2} = CO_2 correction factor, percent.

5.9 = 20.9 percent O_2 —15 percent O_2 , the defined O_2 correction value, percent.

(iii) Calculate the CO, THC, and formaldehyde gas concentrations adjusted to 15 percent O_2 using CO_2 as follows:

$$C_{adj} = C_d \frac{X_{CO2}}{\$CO_2}$$
 (Eq. 4)

Where:

C_{adj} = Calculated concentration of CO, THC, or formaldehyde adjusted to 15 percent O₂.

C_d = Measured concentration of CO, THC, or formaldehyde, uncorrected.

 X_{CO2} = CO_2 correction factor, percent.

%CO₂ = Measured CO₂ concentration measured, dry basis, percent.

- (f) If you comply with the emission limitation to reduce CO and you are not using an oxidation catalyst, if you comply with the emission limitation to reduce formaldehyde and you are not using NSCR, or if you comply with the emission limitation to limit the concentration of formaldehyde in the stationary RICE exhaust and you are not using an oxidation catalyst or NSCR, you must petition the Administrator for operating limitations to be established during the initial performance test and continuously monitored thereafter; or for approval of no operating limitations. You must not conduct the initial performance test until after the petition has been approved by the Administrator.
- (g) If you petition the Administrator for approval of operating limitations, your petition must include the information described in paragraphs (g)(1) through (5) of this section.

Harlan Bakeries - GT, LLC Page 14 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

(1) Identification of the specific parameters you propose to use as operating limitations;

(2) A discussion of the relationship between these parameters and HAP emissions, identifying how HAP emissions change with changes in these parameters, and how limitations on these parameters will serve to limit HAP emissions;

- (3) A discussion of how you will establish the upper and/or lower values for these parameters which will establish the limits on these parameters in the operating limitations;
- (4) A discussion identifying the methods you will use to measure and the instruments you will use to monitor these parameters, as well as the relative accuracy and precision of these methods and instruments; and
- (5) A discussion identifying the frequency and methods for recalibrating the instruments you will use for monitoring these parameters.
- (h) If you petition the Administrator for approval of no operating limitations, your petition must include the information described in paragraphs (h)(1) through (7) of this section.
- (1) Identification of the parameters associated with operation of the stationary RICE and any emission control device which could change intentionally (*e.g.*, operator adjustment, automatic controller adjustment, etc.) or unintentionally (*e.g.*, wear and tear, error, etc.) on a routine basis or over time;
- (2) A discussion of the relationship, if any, between changes in the parameters and changes in HAP emissions;
- (3) For the parameters which could change in such a way as to increase HAP emissions, a discussion of whether establishing limitations on the parameters would serve to limit HAP emissions;
- (4) For the parameters which could change in such a way as to increase HAP emissions, a discussion of how you could establish upper and/or lower values for the parameters which would establish limits on the parameters in operating limitations;
- (5) For the parameters, a discussion identifying the methods you could use to measure them and the instruments you could use to monitor them, as well as the relative accuracy and precision of the methods and instruments;
- (6) For the parameters, a discussion identifying the frequency and methods for recalibrating the instruments you could use to monitor them; and
- (7) A discussion of why, from your point of view, it is infeasible or unreasonable to adopt the parameters as operating limitations.
- (i) The engine percent load during a performance test must be determined by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load in a specific application. A written report of the average percent load determination must be included in the notification of compliance status. The following information must be included in the written report: the engine model number, the engine manufacturer, the year of purchase, the manufacturer's site-rated brake horsepower, the ambient temperature, pressure, and humidity during the performance test, and all assumptions that were made to estimate or calculate percent load during the performance test must be clearly explained. If measurement devices such as flow meters, kilowatt meters, beta analyzers, stain gauges, etc. are used, the model number of the measurement device, and an estimate of its accurate in percentage of true value must be provided.

Harlan Bakeries - GT, LLC Page 15 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

[69 FR 33506, June 15, 2004, as amended at 75 FR 9676, Mar. 3, 2010; 78 FR 6702, Jan. 30, 2013]

§ 63.6625 What are my monitoring, installation, collection, operation, and maintenance requirements?

- (a) If you elect to install a CEMS as specified in Table 5 of this subpart, you must install, operate, and maintain a CEMS to monitor CO and either O_2 or CO_2 according to the requirements in paragraphs (a)(1) through (4) of this section. If you are meeting a requirement to reduce CO emissions, the CEMS must be installed at both the inlet and outlet of the control device. If you are meeting a requirement to limit the concentration of CO, the CEMS must be installed at the outlet of the control device.
- (1) Each CEMS must be installed, operated, and maintained according to the applicable performance specifications of 40 CFR part 60, appendix B.
- (2) You must conduct an initial performance evaluation and an annual relative accuracy test audit (RATA) of each CEMS according to the requirements in § 63.8 and according to the applicable performance specifications of 40 CFR part 60, appendix B as well as daily and periodic data quality checks in accordance with 40 CFR part 60, appendix F, procedure 1.
- (3) As specified in § 63.8(c)(4)(ii), each CEMS must complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period. You must have at least two data points, with each representing a different 15-minute period, to have a valid hour of data.
- (4) The CEMS data must be reduced as specified in § 63.8(g)(2) and recorded in parts per million or parts per billion (as appropriate for the applicable limitation) at 15 percent oxygen or the equivalent CO₂ concentration.
- (b) If you are required to install a continuous parameter monitoring system (CPMS) as specified in Table 5 of this subpart, you must install, operate, and maintain each CPMS according to the requirements in paragraphs (b)(1) through (6) of this section. For an affected source that is complying with the emission limitations and operating limitations on March 9, 2011, the requirements in paragraph (b) of this section are applicable September 6, 2011.
- (1) You must prepare a site-specific monitoring plan that addresses the monitoring system design, data collection, and the quality assurance and quality control elements outlined in paragraphs (b)(1)(i) through (v) of this section and in § 63.8(d). As specified in § 63.8(f)(4), you may request approval of monitoring system quality assurance and quality control procedures alternative to those specified in paragraphs (b)(1) through (5) of this section in your site-specific monitoring plan.
- (i) The performance criteria and design specifications for the monitoring system equipment, including the sample interface, detector signal analyzer, and data acquisition and calculations;
- (ii) Sampling interface (e.g., thermocouple) location such that the monitoring system will provide representative measurements;
- (iii) Equipment performance evaluations, system accuracy audits, or other audit procedures;
- (iv) Ongoing operation and maintenance procedures in accordance with provisions in § 63.8(c)(1)(ii) and (c)(3); and
- (v) Ongoing reporting and recordkeeping procedures in accordance with provisions in § 63.10(c), (e)(1), and (e)(2)(i).

Harlan Bakeries - GT, LLC Page 16 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

(2) You must install, operate, and maintain each CPMS in continuous operation according to the procedures in your site-specific monitoring plan.

- (3) The CPMS must collect data at least once every 15 minutes (see also § 63.6635).
- (4) For a CPMS for measuring temperature range, the temperature sensor must have a minimum tolerance of 2.8 degrees Celsius (5 degrees Fahrenheit) or 1 percent of the measurement range, whichever is larger.
- (5) You must conduct the CPMS equipment performance evaluation, system accuracy audits, or other audit procedures specified in your site-specific monitoring plan at least annually.
- (6) You must conduct a performance evaluation of each CPMS in accordance with your site-specific monitoring plan.
- (c) If you are operating a new or reconstructed stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, you must monitor and record your fuel usage daily with separate fuel meters to measure the volumetric flow rate of each fuel. In addition, you must operate your stationary RICE in a manner which reasonably minimizes HAP emissions.
- (d) If you are operating a new or reconstructed emergency 4SLB stationary RICE with a site rating of greater than or equal to 250 and less than or equal to 500 brake HP located at a major source of HAP emissions, you must install a non-resettable hour meter prior to the startup of the engine.
- (e) If you own or operate any of the following stationary RICE, you must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions:
- (1) An existing stationary RICE with a site rating of less than 100 HP located at a major source of HAP emissions;
- (2) An existing emergency or black start stationary RICE with a site rating of less than or equal to 500 HP located at a major source of HAP emissions;
- (3) An existing emergency or black start stationary RICE located at an area source of HAP emissions;
- (4) An existing non-emergency, non-black start stationary CI RICE with a site rating less than or equal to 300 HP located at an area source of HAP emissions;
- (5) An existing non-emergency, non-black start 2SLB stationary RICE located at an area source of HAP emissions;
- (6) An existing non-emergency, non-black start stationary RICE located at an area source of HAP emissions which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis.
- (7) An existing non-emergency, non-black start 4SLB stationary RICE with a site rating less than or equal to 500 HP located at an area source of HAP emissions;

Harlan Bakeries - GT, LLC Page 17 of 78
Indianapolis, Indiana
Permit Reviewer: Brian Wright

Attachment A for Permit: M097-32467-00637

(8) An existing non-emergency, non-black start 4SRB stationary RICE with a site rating less than or equal to 500 HP located at an area source of HAP emissions:

- (9) An existing, non-emergency, non-black start 4SLB stationary RICE with a site rating greater than 500 HP located at an area source of HAP emissions that is operated 24 hours or less per calendar year; and
- (10) An existing, non-emergency, non-black start 4SRB stationary RICE with a site rating greater than 500 HP located at an area source of HAP emissions that is operated 24 hours or less per calendar year.
- (f) If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing emergency stationary RICE located at an area source of HAP emissions, you must install a non-resettable hour meter if one is not already installed.
- (g) If you own or operate an existing non-emergency, non-black start CI engine greater than or equal to 300 HP that is not equipped with a closed crankcase ventilation system, you must comply with either paragraph (g)(1) or paragraph (2) of this section. Owners and operators must follow the manufacturer's specified maintenance requirements for operating and maintaining the open or closed crankcase ventilation systems and replacing the crankcase filters, or can request the Administrator to approve different maintenance requirements that are as protective as manufacturer requirements. Existing CI engines located at area sources in areas of Alaska that meet either § 63.6603(b)(1) or § 63.6603(b)(2) do not have to meet the requirements of this paragraph (g). Existing CI engines located on offshore vessels that meet § 63.6603(c) do not have to meet the requirements of this paragraph (g).
- (1) Install a closed crankcase ventilation system that prevents crankcase emissions from being emitted to the atmosphere, or
- (2) Install an open crankcase filtration emission control system that reduces emissions from the crankcase by filtering the exhaust stream to remove oil mist, particulates and metals.
- (h) If you operate a new, reconstructed, or existing stationary engine, you must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply.
- (i) If you own or operate a stationary CI engine that is subject to the work, operation or management practices in items 1 or 2 of Table 2c to this subpart or in items 1 or 4 of Table 2d to this subpart, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.
- (j) If you own or operate a stationary SI engine that is subject to the work, operation or management practices in items 6, 7, or 8 of Table 2c to this subpart or in items 5, 6, 7, 9, or 11 of Table 2d to this

Harlan Bakeries - GT, LLC Page 18 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

subpart, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Acid Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Acid Number increases by more than 3.0 milligrams of potassium hydroxide (KOH) per gram from Total Acid Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

[69 FR 33506, June 15, 2004, as amended at 73 FR 3606, Jan. 18, 2008; 75 FR 9676, Mar. 3, 2010; 75 FR 51589, Aug. 20, 2010; 76 FR 12866, Mar. 9, 2011; 78 FR 6703, Jan. 30, 2013]

§ 63.6630 How do I demonstrate initial compliance with the emission limitations, operating limitations, and other requirements?

- (a) You must demonstrate initial compliance with each emission limitation, operating limitation, and other requirement that applies to you according to Table 5 of this subpart.
- (b) During the initial performance test, you must establish each operating limitation in Tables 1b and 2b of this subpart that applies to you.
- (c) You must submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in § 63.6645.
- (d) Non-emergency 4SRB stationary RICE complying with the requirement to reduce formaldehyde emissions by 76 percent or more can demonstrate initial compliance with the formaldehyde emission limit by testing for THC instead of formaldehyde. The testing must be conducted according to the requirements in Table 4 of this subpart. The average reduction of emissions of THC determined from the performance test must be equal to or greater than 30 percent.
- (e) The initial compliance demonstration required for existing non-emergency 4SLB and 4SRB stationary RICE with a site rating of more than 500 HP located at an area source of HAP that are not remote stationary RICE and that are operated more than 24 hours per calendar year must be conducted according to the following requirements:
- (1) The compliance demonstration must consist of at least three test runs.
- (2) Each test run must be of at least 15 minute duration, except that each test conducted using the method in appendix A to this subpart must consist of at least one measurement cycle and include at least 2 minutes of test data phase measurement.
- (3) If you are demonstrating compliance with the CO concentration or CO percent reduction requirement, you must measure CO emissions using one of the CO measurement methods specified in Table 4 of this subpart, or using appendix A to this subpart.
- (4) If you are demonstrating compliance with the THC percent reduction requirement, you must measure THC emissions using Method 25A, reported as propane, of 40 CFR part 60, appendix A.

Harlan Bakeries - GT, LLC Page 19 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

(5) You must measure O_2 using one of the O_2 measurement methods specified in Table 4 of this subpart. Measurements to determine O_2 concentration must be made at the same time as the measurements for CO or THC concentration.

(6) If you are demonstrating compliance with the CO or THC percent reduction requirement, you must measure CO or THC emissions and O_2 emissions simultaneously at the inlet and outlet of the control device.

[69 FR 33506, June 15, 2004, as amended at 78 FR 6704, Jan. 30, 2013]

Continuous Compliance Requirements

§ 63.6635 How do I monitor and collect data to demonstrate continuous compliance?

- (a) If you must comply with emission and operating limitations, you must monitor and collect data according to this section.
- (b) Except for monitor malfunctions, associated repairs, required performance evaluations, and required quality assurance or control activities, you must monitor continuously at all times that the stationary RICE is operating. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.
- (c) You may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels. You must, however, use all the valid data collected during all other periods.

[69 FR 33506, June 15, 2004, as amended at 76 FR 12867, Mar. 9, 2011]

§ 63.6640 How do I demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements?

- (a) You must demonstrate continuous compliance with each emission limitation, operating limitation, and other requirements in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to you according to methods specified in Table 6 to this subpart.
- (b) You must report each instance in which you did not meet each emission limitation or operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to you. These instances are deviations from the emission and operating limitations in this subpart. These deviations must be reported according to the requirements in § 63.6650. If you change your catalyst, you must reestablish the values of the operating parameters measured during the initial performance test. When you reestablish the values of your operating parameters, you must also conduct a performance test to demonstrate that you are meeting the required emission limitation applicable to your stationary RICE.
- (c) The annual compliance demonstration required for existing non-emergency 4SLB and 4SRB stationary RICE with a site rating of more than 500 HP located at an area source of HAP that are not remote stationary RICE and that are operated more than 24 hours per calendar year must be conducted according to the following requirements:
- (1) The compliance demonstration must consist of at least one test run.

Harlan Bakeries - GT, LLC Page 20 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

(2) Each test run must be of at least 15 minute duration, except that each test conducted using the method in appendix A to this subpart must consist of at least one measurement cycle and include at least 2 minutes of test data phase measurement.

- (3) If you are demonstrating compliance with the CO concentration or CO percent reduction requirement, you must measure CO emissions using one of the CO measurement methods specified in Table 4 of this subpart, or using appendix A to this subpart.
- (4) If you are demonstrating compliance with the THC percent reduction requirement, you must measure THC emissions using Method 25A, reported as propane, of 40 CFR part 60, appendix A.
- (5) You must measure O_2 using one of the O_2 measurement methods specified in Table 4 of this subpart. Measurements to determine O_2 concentration must be made at the same time as the measurements for CO or THC concentration.
- (6) If you are demonstrating compliance with the CO or THC percent reduction requirement, you must measure CO or THC emissions and O_2 emissions simultaneously at the inlet and outlet of the control device.
- (7) If the results of the annual compliance demonstration show that the emissions exceed the levels specified in Table 6 of this subpart, the stationary RICE must be shut down as soon as safely possible, and appropriate corrective action must be taken (e.g., repairs, catalyst cleaning, catalyst replacement). The stationary RICE must be retested within 7 days of being restarted and the emissions must meet the levels specified in Table 6 of this subpart. If the retest shows that the emissions continue to exceed the specified levels, the stationary RICE must again be shut down as soon as safely possible, and the stationary RICE may not operate, except for purposes of startup and testing, until the owner/operator demonstrates through testing that the emissions do not exceed the levels specified in Table 6 of this subpart.
- (d) For new, reconstructed, and rebuilt stationary RICE, deviations from the emission or operating limitations that occur during the first 200 hours of operation from engine startup (engine burn-in period) are not violations. Rebuilt stationary RICE means a stationary RICE that has been rebuilt as that term is defined in 40 CFR 94.11(a).
- (e) You must also report each instance in which you did not meet the requirements in Table 8 to this subpart that apply to you. If you own or operate a new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions (except new or reconstructed 4SLB engines greater than or equal to 250 and less than or equal to 500 brake HP), a new or reconstructed stationary RICE located at an area source of HAP emissions, or any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in Table 8 to this subpart: An existing 2SLB stationary RICE, an existing 4SLB stationary RICE, an existing emergency stationary RICE, an existing limited use stationary RICE, or an existing stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis. If you own or operate any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in Table 8 to this subpart, except for the initial notification requirements: a new or reconstructed stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, a new or reconstructed emergency stationary RICE, or a new or reconstructed limited use stationary RICE.
- (f) If you own or operate an emergency stationary RICE, you must operate the emergency stationary RICE according to the requirements in paragraphs (f)(1) through (4) of this section. In order for the engine to be considered an emergency stationary RICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency

Harlan Bakeries - GT, LLC Page 21 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

situations for 50 hours per year, as described in paragraphs (f)(1) through (4) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (4) of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

- (1) There is no time limit on the use of emergency stationary RICE in emergency situations.
- (2) You may operate your emergency stationary RICE for any combination of the purposes specified in paragraphs (f)(2)(i) through (iii) of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraphs (f)(3) and (4) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).
- (i) Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.
- (ii) Emergency stationary RICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see § 63.14), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.
- (iii) Emergency stationary RICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.
- (3) Emergency stationary RICE located at major sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.
- (4) Emergency stationary RICE located at area sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. Except as provided in paragraphs (f)(4)(i) and (ii) of this section, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.
- (i) Prior to May 3, 2014, the 50 hours per year for non-emergency situations can be used for peak shaving or non-emergency demand response to generate income for a facility, or to otherwise supply power as part of a financial arrangement with another entity if the engine is operated as part of a peak shaving (load management program) with the local distribution system operator and the power is provided only to the facility itself or to support the local distribution system.
- (ii) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:

Harlan Bakeries - GT, LLC Page 22 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

(A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator.

- (B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.
- (C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.
- (D) The power is provided only to the facility itself or to support the local transmission and distribution system.
- (E) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

[69 FR 33506, June 15, 2004, as amended at 71 FR 20467, Apr. 20, 2006; 73 FR 3606, Jan. 18, 2008; 75 FR 9676, Mar. 3, 2010; 75 FR 51591, Aug. 20, 2010; 78 FR 6704, Jan. 30, 2013]

Notifications, Reports, and Records

§ 63.6645 What notifications must I submit and when?

- (a) You must submit all of the notifications in §§ 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h) that apply to you by the dates specified if you own or operate any of the following;
- (1) An existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions.
- (2) An existing stationary RICE located at an area source of HAP emissions.
- (3) A stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions.
- (4) A new or reconstructed 4SLB stationary RICE with a site rating of greater than or equal to 250 HP located at a major source of HAP emissions.
- (5) This requirement does not apply if you own or operate an existing stationary RICE less than 100 HP, an existing stationary emergency RICE, or an existing stationary RICE that is not subject to any numerical emission standards.
- (b) As specified in § 63.9(b)(2), if you start up your stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions before the effective date of this subpart, you must submit an Initial Notification not later than December 13, 2004.
- (c) If you start up your new or reconstructed stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions on or after August 16, 2004, you must submit an Initial Notification not later than 120 days after you become subject to this subpart.
- (d) As specified in § 63.9(b)(2), if you start up your stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions before the effective date of this subpart

Harlan Bakeries - GT, LLC Page 23 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

and you are required to submit an initial notification, you must submit an Initial Notification not later than July 16, 2008.

- (e) If you start up your new or reconstructed stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions on or after March 18, 2008 and you are required to submit an initial notification, you must submit an Initial Notification not later than 120 days after you become subject to this subpart.
- (f) If you are required to submit an Initial Notification but are otherwise not affected by the requirements of this subpart, in accordance with § 63.6590(b), your notification should include the information in § 63.9(b)(2)(i) through (v), and a statement that your stationary RICE has no additional requirements and explain the basis of the exclusion (for example, that it operates exclusively as an emergency stationary RICE if it has a site rating of more than 500 brake HP located at a major source of HAP emissions).
- (g) If you are required to conduct a performance test, you must submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required in § 63.7(b)(1).
- (h) If you are required to conduct a performance test or other initial compliance demonstration as specified in Tables 4 and 5 to this subpart, you must submit a Notification of Compliance Status according to § 63.9(h)(2)(ii).
- (1) For each initial compliance demonstration required in Table 5 to this subpart that does not include a performance test, you must submit the Notification of Compliance Status before the close of business on the 30th day following the completion of the initial compliance demonstration.
- (2) For each initial compliance demonstration required in Table 5 to this subpart that includes a performance test conducted according to the requirements in Table 3 to this subpart, you must submit the Notification of Compliance Status, including the performance test results, before the close of business on the 60th day following the completion of the performance test according to § 63.10(d)(2).
- (i) If you own or operate an existing non-emergency CI RICE with a site rating of more than 300 HP located at an area source of HAP emissions that is certified to the Tier 1 or Tier 2 emission standards in Table 1 of 40 CFR 89.112 and subject to an enforceable state or local standard requiring engine replacement and you intend to meet management practices rather than emission limits, as specified in § 63.6603(d), you must submit a notification by March 3, 2013, stating that you intend to use the provision in § 63.6603(d) and identifying the state or local regulation that the engine is subject to.

[73 FR 3606, Jan. 18, 2008, as amended at 75 FR 9677, Mar. 3, 2010; 75 FR 51591, Aug. 20, 2010; 78 FR 6705, Jan. 30, 2013]

§ 63.6650 What reports must I submit and when?

- (a) You must submit each report in Table 7 of this subpart that applies to you.
- (b) Unless the Administrator has approved a different schedule for submission of reports under § 63.10(a), you must submit each report by the date in Table 7 of this subpart and according to the requirements in paragraphs (b)(1) through (b)(9) of this section.
- (1) For semiannual Compliance reports, the first Compliance report must cover the period beginning on the compliance date that is specified for your affected source in § 63.6595 and ending on June 30 or December 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for your source in § 63.6595.

Harlan Bakeries - GT, LLC Page 24 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

(2) For semiannual Compliance reports, the first Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date follows the end of the first calendar half after the compliance date that is specified for your affected source in § 63.6595.

- (3) For semiannual Compliance reports, each subsequent Compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.
- (4) For semiannual Compliance reports, each subsequent Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.
- (5) For each stationary RICE that is subject to permitting regulations pursuant to 40 CFR part 70 or 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6 (a)(3)(iii)(A), you may submit the first and subsequent Compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (b)(1) through (b)(4) of this section.
- (6) For annual Compliance reports, the first Compliance report must cover the period beginning on the compliance date that is specified for your affected source in § 63.6595 and ending on December 31.
- (7) For annual Compliance reports, the first Compliance report must be postmarked or delivered no later than January 31 following the end of the first calendar year after the compliance date that is specified for your affected source in § 63.6595.
- (8) For annual Compliance reports, each subsequent Compliance report must cover the annual reporting period from January 1 through December 31.
- (9) For annual Compliance reports, each subsequent Compliance report must be postmarked or delivered no later than January 31.
- (c) The Compliance report must contain the information in paragraphs (c)(1) through (6) of this section.
- (1) Company name and address.
- (2) Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report.
- (3) Date of report and beginning and ending dates of the reporting period.
- (4) If you had a malfunction during the reporting period, the compliance report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize emissions in accordance with § 63.6605(b), including actions taken to correct a malfunction.
- (5) If there are no deviations from any emission or operating limitations that apply to you, a statement that there were no deviations from the emission or operating limitations during the reporting period.
- (6) If there were no periods during which the continuous monitoring system (CMS), including CEMS and CPMS, was out-of-control, as specified in § 63.8(c)(7), a statement that there were no periods during which the CMS was out-of-control during the reporting period.

Harlan Bakeries - GT, LLC Page 25 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

(d) For each deviation from an emission or operating limitation that occurs for a stationary RICE where you are not using a CMS to comply with the emission or operating limitations in this subpart, the Compliance report must contain the information in paragraphs (c)(1) through (4) of this section and the information in paragraphs (d)(1) and (2) of this section.

- (1) The total operating time of the stationary RICE at which the deviation occurred during the reporting period.
- (2) Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.
- (e) For each deviation from an emission or operating limitation occurring for a stationary RICE where you are using a CMS to comply with the emission and operating limitations in this subpart, you must include information in paragraphs (c)(1) through (4) and (e)(1) through (12) of this section.
- (1) The date and time that each malfunction started and stopped.
- (2) The date, time, and duration that each CMS was inoperative, except for zero (low-level) and high-level checks.
- (3) The date, time, and duration that each CMS was out-of-control, including the information in § 63.8(c)(8).
- (4) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of malfunction or during another period.
- (5) A summary of the total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during that reporting period.
- (6) A breakdown of the total duration of the deviations during the reporting period into those that are due to control equipment problems, process problems, other known causes, and other unknown causes.
- (7) A summary of the total duration of CMS downtime during the reporting period, and the total duration of CMS downtime as a percent of the total operating time of the stationary RICE at which the CMS downtime occurred during that reporting period.
- (8) An identification of each parameter and pollutant (CO or formaldehyde) that was monitored at the stationary RICE.
- (9) A brief description of the stationary RICE.
- (10) A brief description of the CMS.
- (11) The date of the latest CMS certification or audit.
- (12) A description of any changes in CMS, processes, or controls since the last reporting period.
- (f) Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6 (a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If an affected source submits a Compliance report pursuant to Table 7 of this subpart along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the Compliance report includes all required information concerning deviations from any emission or operating limitation in this subpart, submission of

Harlan Bakeries - GT, LLC Page 26 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

the Compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a Compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority.

- (g) If you are operating as a new or reconstructed stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, you must submit an annual report according to Table 7 of this subpart by the date specified unless the Administrator has approved a different schedule, according to the information described in paragraphs (b)(1) through (b)(5) of this section. You must report the data specified in (g)(1) through (g)(3) of this section.
- (1) Fuel flow rate of each fuel and the heating values that were used in your calculations. You must also demonstrate that the percentage of heat input provided by landfill gas or digester gas is equivalent to 10 percent or more of the total fuel consumption on an annual basis.
- (2) The operating limits provided in your federally enforceable permit, and any deviations from these limits.
- (3) Any problems or errors suspected with the meters.
- (h) If you own or operate an emergency stationary RICE with a site rating of more than 100 brake HP that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in § 63.6640(f)(2)(ii) and (iii) or that operates for the purpose specified in § 63.6640(f)(4)(ii), you must submit an annual report according to the requirements in paragraphs (h)(1) through (3) of this section.
- (1) The report must contain the following information:
- (i) Company name and address where the engine is located.
- (ii) Date of the report and beginning and ending dates of the reporting period.
- (iii) Engine site rating and model year.
- (iv) Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.
- (v) Hours operated for the purposes specified in § 63.6640(f)(2)(ii) and (iii), including the date, start time, and end time for engine operation for the purposes specified in § 63.6640(f)(2)(ii) and (iii).
- (vi) Number of hours the engine is contractually obligated to be available for the purposes specified in § 63.6640(f)(2)(ii) and (iii).
- (vii) Hours spent for operation for the purpose specified in \S 63.6640(f)(4)(ii), including the date, start time, and end time for engine operation for the purposes specified in \S 63.6640(f)(4)(ii). The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.
- (viii) If there were no deviations from the fuel requirements in § 63.6604 that apply to the engine (if any), a statement that there were no deviations from the fuel requirements during the reporting period.
- (ix) If there were deviations from the fuel requirements in § 63.6604 that apply to the engine (if any), information on the number, duration, and cause of deviations, and the corrective action taken.

Harlan Bakeries - GT, LLC Page 27 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

(2) The first annual report must cover the calendar year 2015 and must be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year must be submitted no later than March 31 of the following calendar year.

(3) The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the Administrator at the appropriate address listed in § 63.13.

[69 FR 33506, June 15, 2004, as amended at 75 FR 9677, Mar. 3, 2010; 78 FR 6705, Jan. 30, 2013]

§ 63.6655 What records must I keep?

- (a) If you must comply with the emission and operating limitations, you must keep the records described in paragraphs (a)(1) through (a)(5), (b)(1) through (b)(3) and (c) of this section.
- (1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in § 63.10(b)(2)(xiv).
- (2) Records of the occurrence and duration of each malfunction of operation (*i.e.*, process equipment) or the air pollution control and monitoring equipment.
- (3) Records of performance tests and performance evaluations as required in § 63.10(b)(2)(viii).
- (4) Records of all required maintenance performed on the air pollution control and monitoring equipment.
- (5) Records of actions taken during periods of malfunction to minimize emissions in accordance with § 63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
- (b) For each CEMS or CPMS, you must keep the records listed in paragraphs (b)(1) through (3) of this section.
- (1) Records described in § 63.10(b)(2)(vi) through (xi).
- (2) Previous (i.e., superseded) versions of the performance evaluation plan as required in § 63.8(d)(3).
- (3) Requests for alternatives to the relative accuracy test for CEMS or CPMS as required in § 63.8(f)(6)(i), if applicable.
- (c) If you are operating a new or reconstructed stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, you must keep the records of your daily fuel usage monitors.
- (d) You must keep the records required in Table 6 of this subpart to show continuous compliance with each emission or operating limitation that applies to you.
- (e) You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan if you own or operate any of the following stationary RICE;

Harlan Bakeries - GT, LLC Page 28 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

(1) An existing stationary RICE with a site rating of less than 100 brake HP located at a major source of HAP emissions.

- (2) An existing stationary emergency RICE.
- (3) An existing stationary RICE located at an area source of HAP emissions subject to management practices as shown in Table 2d to this subpart.
- (f) If you own or operate any of the stationary RICE in paragraphs (f)(1) through (2) of this section, you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for the purposes specified in § 63.6640(f)(2)(ii) or (iii) or § 63.6640(f)(4)(ii), the owner or operator must keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes.
- (1) An existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions that does not meet the standards applicable to non-emergency engines.
- (2) An existing emergency stationary RICE located at an area source of HAP emissions that does not meet the standards applicable to non-emergency engines.

[69 FR 33506, June 15, 2004, as amended at 75 FR 9678, Mar. 3, 2010; 75 FR 51592, Aug. 20, 2010; 78 FR 6706, Jan. 30, 2013]

§ 63.6660 In what form and how long must I keep my records?

- (a) Your records must be in a form suitable and readily available for expeditious review according to § 63.10(b)(1).
- (b) As specified in § 63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
- (c) You must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to § 63.10(b)(1).

[69 FR 33506, June 15, 2004, as amended at 75 FR 9678, Mar. 3, 2010]

Other Requirements and Information

§ 63.6665 What parts of the General Provisions apply to me?

Table 8 to this subpart shows which parts of the General Provisions in §§ 63.1 through 63.15 apply to you. If you own or operate a new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions (except new or reconstructed 4SLB engines greater than or equal to 250 and less than or equal to 500 brake HP), a new or reconstructed stationary RICE located at an area source of HAP emissions, or any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with any of the requirements of the General Provisions specified in Table 8: An existing 2SLB stationary RICE, an existing 4SLB stationary RICE, an existing stationary RICE that combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, an existing emergency

Page 29 of 78 Attachment A for Permit: M097-32467-00637

Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright

stationary RICE, or an existing limited use stationary RICE. If you own or operate any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in the General Provisions specified in Table 8 except for the initial notification requirements: A new stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, a new emergency stationary RICE, or a new limited use stationary RICE.

[75 FR 9678, Mar. 3, 2010]

§ 63.6670 Who implements and enforces this subpart?

- (a) This subpart is implemented and enforced by the U.S. EPA, or a delegated authority such as your State, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency (as well as the U.S. EPA) has the authority to implement and enforce this subpart. You should contact your U.S. EPA Regional Office to find out whether this subpart is delegated to your State, local, or tribal agency.
- (b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under 40 CFR part 63, subpart E, the authorities contained in paragraph (c) of this section are retained by the Administrator of the U.S. EPA and are not transferred to the State, local, or tribal agency.
- (c) The authorities that will not be delegated to State, local, or tribal agencies are:
- (1) Approval of alternatives to the non-opacity emission limitations and operating limitations in § 63.6600 under § 63.6(g).
- (2) Approval of major alternatives to test methods under § 63.7(e)(2)(ii) and (f) and as defined in § 63.90.
- (3) Approval of major alternatives to monitoring under § 63.8(f) and as defined in § 63.90.
- (4) Approval of major alternatives to recordkeeping and reporting under § 63.10(f) and as defined in § 63.90.
- (5) Approval of a performance test which was conducted prior to the effective date of the rule, as specified in § 63.6610(b).

§ 63.6675 What definitions apply to this subpart?

Terms used in this subpart are defined in the Clean Air Act (CAA); in 40 CFR 63.2, the General Provisions of this part; and in this section as follows:

Alaska Railbelt Grid means the service areas of the six regulated public utilities that extend from Fairbanks to Anchorage and the Kenai Peninsula. These utilities are Golden Valley Electric Association; Chugach Electric Association; Matanuska Electric Association; Homer Electric Association; Anchorage Municipal Light & Power; and the City of Seward Electric System.

Area source means any stationary source of HAP that is not a major source as defined in part 63.

Associated equipment as used in this subpart and as referred to in section 112(n)(4) of the CAA, means equipment associated with an oil or natural gas exploration or production well, and includes all equipment from the well bore to the point of custody transfer, except glycol dehydration units, storage vessels with potential for flash emissions, combustion turbines, and stationary RICE.

Harlan Bakeries - GT, LLC Page 30 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

Backup power for renewable energy means an engine that provides backup power to a facility that generates electricity from renewable energy resources, as that term is defined in Alaska Statute 42.45.045(I)(5) (incorporated by reference, see § 63.14).

Black start engine means an engine whose only purpose is to start up a combustion turbine.

CAA means the Clean Air Act (42 U.S.C. 7401 et seq., as amended by Public Law 101-549, 104 Stat. 2399).

Commercial emergency stationary RICE means an emergency stationary RICE used in commercial establishments such as office buildings, hotels, stores, telecommunications facilities, restaurants, financial institutions such as banks, doctor's offices, and sports and performing arts facilities.

Compression ignition means relating to a type of stationary internal combustion engine that is not a spark ignition engine.

Custody transfer means the transfer of hydrocarbon liquids or natural gas: After processing and/or treatment in the producing operations, or from storage vessels or automatic transfer facilities or other such equipment, including product loading racks, to pipelines or any other forms of transportation. For the purposes of this subpart, the point at which such liquids or natural gas enters a natural gas processing plant is a point of custody transfer.

Deviation means any instance in which an affected source subject to this subpart, or an owner or operator of such a source:

- (1) Fails to meet any requirement or obligation established by this subpart, including but not limited to any emission limitation or operating limitation;
- (2) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or
- (3) Fails to meet any emission limitation or operating limitation in this subpart during malfunction, regardless or whether or not such failure is permitted by this subpart.
- (4) Fails to satisfy the general duty to minimize emissions established by § 63.6(e)(1)(i).

Diesel engine means any stationary RICE in which a high boiling point liquid fuel injected into the combustion chamber ignites when the air charge has been compressed to a temperature sufficiently high for auto-ignition. This process is also known as compression ignition.

Diesel fuel means any liquid obtained from the distillation of petroleum with a boiling point of approximately 150 to 360 degrees Celsius. One commonly used form is fuel oil number 2. Diesel fuel also includes any non-distillate fuel with comparable physical and chemical properties (e.g. biodiesel) that is suitable for use in compression ignition engines.

Digester gas means any gaseous by-product of wastewater treatment typically formed through the anaerobic decomposition of organic waste materials and composed principally of methane and CO₂.

Dual-fuel engine means any stationary RICE in which a liquid fuel (typically diesel fuel) is used for compression ignition and gaseous fuel (typically natural gas) is used as the primary fuel.

Harlan Bakeries - GT, LLC Page 31 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

Emergency stationary RICE means any stationary reciprocating internal combustion engine that meets all of the criteria in paragraphs (1) through (3) of this definition. All emergency stationary RICE must comply with the requirements specified in § 63.6640(f) in order to be considered emergency stationary RICE. If the engine does not comply with the requirements specified in § 63.6640(f), then it is not considered to be an emergency stationary RICE under this subpart.

- (1) The stationary RICE is operated to provide electrical power or mechanical work during an emergency situation. Examples include stationary RICE used to produce power for critical networks or equipment (including power supplied to portions of a facility) when electric power from the local utility (or the normal power source, if the facility runs on its own power production) is interrupted, or stationary RICE used to pump water in the case of fire or flood, etc.
- (2) The stationary RICE is operated under limited circumstances for situations not included in paragraph (1) of this definition, as specified in § 63.6640(f).
- (3) The stationary RICE operates as part of a financial arrangement with another entity in situations not included in paragraph (1) of this definition only as allowed in § 63.6640(f)(2)(ii) or (iii) and § 63.6640(f)(4)(i) or (ii).

Engine startup means the time from initial start until applied load and engine and associated equipment reaches steady state or normal operation. For stationary engine with catalytic controls, engine startup means the time from initial start until applied load and engine and associated equipment, including the catalyst, reaches steady state or normal operation.

Four-stroke engine means any type of engine which completes the power cycle in two crankshaft revolutions, with intake and compression strokes in the first revolution and power and exhaust strokes in the second revolution.

Gaseous fuel means a material used for combustion which is in the gaseous state at standard atmospheric temperature and pressure conditions.

Gasoline means any fuel sold in any State for use in motor vehicles and motor vehicle engines, or nonroad or stationary engines, and commonly or commercially known or sold as gasoline.

Glycol dehydration unit means a device in which a liquid glycol (including, but not limited to, ethylene glycol, diethylene glycol, or triethylene glycol) absorbent directly contacts a natural gas stream and absorbs water in a contact tower or absorption column (absorber). The glycol contacts and absorbs water vapor and other gas stream constituents from the natural gas and becomes "rich" glycol. This glycol is then regenerated in the glycol dehydration unit reboiler. The "lean" glycol is then recycled.

Hazardous air pollutants (HAP) means any air pollutants listed in or pursuant to section 112(b) of the CAA.

Institutional emergency stationary RICE means an emergency stationary RICE used in institutional establishments such as medical centers, nursing homes, research centers, institutions of higher education, correctional facilities, elementary and secondary schools, libraries, religious establishments, police stations, and fire stations.

ISO standard day conditions means 288 degrees Kelvin (15 degrees Celsius), 60 percent relative humidity and 101.3 kilopascals pressure.

 Harlan Bakeries - GT, LLC Page 32 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

Lean burn engine means any two-stroke or four-stroke spark ignited engine that does not meet the definition of a rich burn engine.

Limited use stationary RICE means any stationary RICE that operates less than 100 hours per year.

Liquefied petroleum gas means any liquefied hydrocarbon gas obtained as a by-product in petroleum refining of natural gas production.

Liquid fuel means any fuel in liquid form at standard temperature and pressure, including but not limited to diesel, residual/crude oil, kerosene/naphtha (jet fuel), and gasoline.

Major Source, as used in this subpart, shall have the same meaning as in § 63.2, except that:

- (1) Emissions from any oil or gas exploration or production well (with its associated equipment (as defined in this section)) and emissions from any pipeline compressor station or pump station shall not be aggregated with emissions from other similar units, to determine whether such emission points or stations are major sources, even when emission points are in a contiguous area or under common control;
- (2) For oil and gas production facilities, emissions from processes, operations, or equipment that are not part of the same oil and gas production facility, as defined in § 63.1271 of subpart HHH of this part, shall not be aggregated;
- (3) For production field facilities, only HAP emissions from glycol dehydration units, storage vessel with the potential for flash emissions, combustion turbines and reciprocating internal combustion engines shall be aggregated for a major source determination; and
- (4) Emissions from processes, operations, and equipment that are not part of the same natural gas transmission and storage facility, as defined in § 63.1271 of subpart HHH of this part, shall not be aggregated.

Malfunction means any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner which causes, or has the potential to cause, the emission limitations in an applicable standard to be exceeded. Failures that are caused in part by poor maintenance or careless operation are not malfunctions.

Natural gas means a naturally occurring mixture of hydrocarbon and non-hydrocarbon gases found in geologic formations beneath the Earth's surface, of which the principal constituent is methane. Natural gas may be field or pipeline quality.

Non-selective catalytic reduction (NSCR) means an add-on catalytic nitrogen oxides (NO $_{\rm X}$) control device for rich burn engines that, in a two-step reaction, promotes the conversion of excess oxygen, NO $_{\rm X}$, CO, and volatile organic compounds (VOC) into CO $_{\rm 2}$, nitrogen, and water.

Oil and gas production facility as used in this subpart means any grouping of equipment where hydrocarbon liquids are processed, upgraded (*i.e.*, remove impurities or other constituents to meet contract specifications), or stored prior to the point of custody transfer; or where natural gas is processed, upgraded, or stored prior to entering the natural gas transmission and storage source category. For purposes of a major source determination, facility (including a building, structure, or installation) means oil and natural gas production and processing equipment that is located within the boundaries of an individual surface site as defined in this section. Equipment that is part of a facility will typically be located within close proximity to other equipment located at the same facility. Pieces of production equipment or groupings of equipment located on different oil and gas leases, mineral fee tracts, lease tracts, subsurface or surface unit areas, surface fee tracts, surface lease tracts, or separate surface sites, whether or not connected by a road, waterway, power line or pipeline, shall not be considered part of the

Harlan Bakeries - GT, LLC Page 33 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

same facility. Examples of facilities in the oil and natural gas production source category include, but are not limited to, well sites, satellite tank batteries, central tank batteries, a compressor station that transports natural gas to a natural gas processing plant, and natural gas processing plants.

Oxidation catalyst means an add-on catalytic control device that controls CO and VOC by oxidation.

Peaking unit or engine means any standby engine intended for use during periods of high demand that are not emergencies.

Percent load means the fractional power of an engine compared to its maximum manufacturer's design capacity at engine site conditions. Percent load may range between 0 percent to above 100 percent.

Potential to emit means the maximum capacity of a stationary source to emit a pollutant under its physical and operational design. Any physical or operational limitation on the capacity of the stationary source to emit a pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation or the effect it would have on emissions is federally enforceable. For oil and natural gas production facilities subject to subpart HH of this part, the potential to emit provisions in § 63.760(a) may be used. For natural gas transmission and storage facilities subject to subpart HHH of this part, the maximum annual facility gas throughput for storage facilities may be determined according to § 63.1270(a)(1) and the maximum annual throughput for transmission facilities may be determined according to § 63.1270(a)(2).

Production field facility means those oil and gas production facilities located prior to the point of custody transfer.

Production well means any hole drilled in the earth from which crude oil, condensate, or field natural gas is extracted.

Propane means a colorless gas derived from petroleum and natural gas, with the molecular structure C_3 H_8 .

Remote stationary RICE means stationary RICE meeting any of the following criteria:

- (1) Stationary RICE located in an offshore area that is beyond the line of ordinary low water along that portion of the coast of the United States that is in direct contact with the open seas and beyond the line marking the seaward limit of inland waters.
- (2) Stationary RICE located on a pipeline segment that meets both of the criteria in paragraphs (2)(i) and (ii) of this definition.
- (i) A pipeline segment with 10 or fewer buildings intended for human occupancy and no buildings with four or more stories within 220 yards (200 meters) on either side of the centerline of any continuous 1-mile (1.6 kilometers) length of pipeline. Each separate dwelling unit in a multiple dwelling unit building is counted as a separate building intended for human occupancy.
- (ii) The pipeline segment does not lie within 100 yards (91 meters) of either a building or a small, well-defined outside area (such as a playground, recreation area, outdoor theater, or other place of public assembly) that is occupied by 20 or more persons on at least 5 days a week for 10 weeks in any 12-month period. The days and weeks need not be consecutive. The building or area is considered occupied for a full day if it is occupied for any portion of the day.

Harlan Bakeries - GT, LLC Page 34 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

(iii) For purposes of this paragraph (2), the term pipeline segment means all parts of those physical facilities through which gas moves in transportation, including but not limited to pipe, valves, and other appurtenance attached to pipe, compressor units, metering stations, regulator stations, delivery stations, holders, and fabricated assemblies. Stationary RICE located within 50 yards (46 meters) of the pipeline segment providing power for equipment on a pipeline segment are part of the pipeline segment. Transportation of gas means the gathering, transmission, or distribution of gas by pipeline, or the storage of gas. A building is intended for human occupancy if its primary use is for a purpose involving the presence of humans.

(3) Stationary RICE that are not located on gas pipelines and that have 5 or fewer buildings intended for human occupancy and no buildings with four or more stories within a 0.25 mile radius around the engine. A building is intended for human occupancy if its primary use is for a purpose involving the presence of humans.

Residential emergency stationary RICE means an emergency stationary RICE used in residential establishments such as homes or apartment buildings.

Responsible official means responsible official as defined in 40 CFR 70.2.

Rich burn engine means any four-stroke spark ignited engine where the manufacturer's recommended operating air/fuel ratio divided by the stoichiometric air/fuel ratio at full load conditions is less than or equal to 1.1. Engines originally manufactured as rich burn engines, but modified prior to December 19, 2002 with passive emission control technology for NO_X (such as pre-combustion chambers) will be considered lean burn engines. Also, existing engines where there are no manufacturer's recommendations regarding air/fuel ratio will be considered a rich burn engine if the excess oxygen content of the exhaust at full load conditions is less than or equal to 2 percent.

Site-rated HP means the maximum manufacturer's design capacity at engine site conditions.

Spark ignition means relating to either: A gasoline-fueled engine; or any other type of engine with a spark plug (or other sparking device) and with operating characteristics significantly similar to the theoretical Otto combustion cycle. Spark ignition engines usually use a throttle to regulate intake air flow to control power during normal operation. Dual-fuel engines in which a liquid fuel (typically diesel fuel) is used for Cl and gaseous fuel (typically natural gas) is used as the primary fuel at an annual average ratio of less than 2 parts diesel fuel to 100 parts total fuel on an energy equivalent basis are spark ignition engines.

Stationary reciprocating internal combustion engine (RICE) means any reciprocating internal combustion engine which uses reciprocating motion to convert heat energy into mechanical work and which is not mobile. Stationary RICE differ from mobile RICE in that a stationary RICE is not a non-road engine as defined at 40 CFR 1068.30, and is not used to propel a motor vehicle or a vehicle used solely for competition.

Stationary RICE test cell/stand means an engine test cell/stand, as defined in subpart PPPP of this part, that tests stationary RICE.

Stoichiometric means the theoretical air-to-fuel ratio required for complete combustion.

Storage vessel with the potential for flash emissions means any storage vessel that contains a hydrocarbon liquid with a stock tank gas-to-oil ratio equal to or greater than 0.31 cubic meters per liter and an American Petroleum Institute gravity equal to or greater than 40 degrees and an actual annual average hydrocarbon liquid throughput equal to or greater than 79,500 liters per day. Flash emissions occur when dissolved hydrocarbons in the fluid evolve from solution when the fluid pressure is reduced.

Subpart means 40 CFR part 63, subpart ZZZZ.

Page 35 of 78 Attachment A for Permit: M097-32467-00637

Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright

Surface site means any combination of one or more graded pad sites, gravel pad sites, foundations, platforms, or the immediate physical location upon which equipment is physically affixed.

Two-stroke engine means a type of engine which completes the power cycle in single crankshaft revolution by combining the intake and compression operations into one stroke and the power and exhaust operations into a second stroke. This system requires auxiliary scavenging and inherently runs lean of stoichiometric.

[69 FR 33506, June 15, 2004, as amended at 71 FR 20467, Apr. 20, 2006; 73 FR 3607, Jan. 18, 2008; 75 FR 9679, Mar. 3, 2010; 75 FR 51592, Aug. 20, 2010; 76 FR 12867, Mar. 9, 2011; 78 FR 6706, Jan. 30, 2013]

Table 1a to Subpart ZZZZ of Part 63—Emission Limitations for Existing, New, and Reconstructed Spark Ignition, 4SRB Stationary RICE > 500 HP Located at a Major Source of HAP Emissions

As stated in §§ 63.6600 and 63.6640, you must comply with the following emission limitations at 100 percent load plus or minus 10 percent for existing, new and reconstructed 4SRB stationary RICE >500 HP located at a major source of HAP emissions:

| For each | You must meet the following emission limitation, except during periods of startup | During periods of startup you must |
|-------------------------------|---|---|
| 1. 4SRB stationary RICE | a. Reduce formaldehyde emissions by 76 percent or more. If you commenced construction or reconstruction between December 19, 2002 and June 15, 2004, you may reduce formaldehyde emissions by 75 percent or more until June 15, 2007 or | Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply. ¹ |
| | b. Limit the concentration of formaldehyde in the stationary RICE exhaust to 350 ppbvd or less at 15 percent O ₂ | |

¹Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.6(g) for alternative work practices.

[75 FR 9679, Mar. 3, 2010, as amended at 75 FR 51592, Aug. 20, 2010]

Page 36 of 78 Attachment A for Permit: M097-32467-00637

Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright

Table 1b to Subpart ZZZZ of Part 63—Operating Limitations for Existing, New, and Reconstructed SI 4SRB Stationary RICE >500 HP Located at a Major Source of HAP Emissions

As stated in §§ 63.6600, 63.6603, 63.6630 and 63.6640, you must comply with the following operating limitations for existing, new and reconstructed 4SRB stationary RICE >500 HP located at a major source of HAP emissions:

Table 1b to Subpart ZZZZ of Part 63—Operating Limitations for Existing, New, and Reconstructed SI 4SRB Stationary RICE >500 HP Located at a Major Source of HAP Emissions

| | |
|--|--|
| For each | You must meet the following operating limitation, except during periods of startup |
| 1. existing, new and reconstructed 4SRB stationary RICE >500 HP located at a major source of HAP emissions complying with the requirement to reduce formaldehyde emissions by 76 percent or more (or by 75 percent or more, if applicable) and using NSCR; or existing, new and reconstructed 4SRB stationary RICE >500 HP located at a major source of HAP emissions complying with the requirement to limit the concentration of formaldehyde in the stationary RICE exhaust to 350 ppbvd or less at 15 percent O ₂ and using NSCR; | |
| 2. existing, new and reconstructed 4SRB stationary RICE >500 HP located at a major source of HAP emissions complying with the requirement to reduce formaldehyde emissions by 76 percent or more (or by 75 percent or more, if applicable) and not using NSCR; or | Comply with any operating limitations approved by the Administrator. |
| existing, new and reconstructed 4SRB stationary RICE >500 HP located at a major source of HAP emissions complying with the requirement to limit the concentration of formaldehyde in the stationary RICE exhaust to 350 ppbvd or less at 15 percent O ₂ and not using NSCR. | |

¹ Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.8(f) for a different temperature range.

[78 FR 6706, Jan. 30, 2013]

Page 37 of 78 Attachment A for Permit: M097-32467-00637

Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright

Table 2a to Subpart ZZZZ of Part 63—Emission Limitations for New and Reconstructed 2SLB and Compression Ignition Stationary RICE >500 HP and New and Reconstructed 4SLB Stationary RICE ≥250 HP Located at a Major Source of HAP Emissions

As stated in §§ 63.6600 and 63.6640, you must comply with the following emission limitations for new and reconstructed lean burn and new and reconstructed compression ignition stationary RICE at 100 percent load plus or minus 10 percent:

| For each | You must meet the following emission limitation, except during periods of startup | During periods of startup you must |
|-------------------------------|---|---|
| 1. 2SLB stationary RICE | a. Reduce CO emissions by 58 percent or more; or b. Limit concentration of formaldehyde in the stationary RICE exhaust to 12 ppmvd or less at 15 percent O ₂ . If you commenced construction or reconstruction between December 19, 2002 and June 15, 2004, you may limit concentration of formaldehyde to 17 ppmvd or less at 15 percent O ₂ until June 15, 2007 | Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply. ¹ |
| 2. 4SLB stationary RICE | a. Reduce CO emissions by 93 percent or more; or | |
| | b. Limit concentration of formaldehyde in the stationary RICE exhaust to 14 ppmvd or less at 15 percent O ₂ | |
| 3. CI stationary RICE | a. Reduce CO emissions by 70 percent or more; or | |
| | b. Limit concentration of formaldehyde in the stationary RICE exhaust to 580 ppbvd or less at 15 percent O ₂ | |

¹ Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.6(g) for alternative work practices.

[75 FR 9680, Mar. 3, 2010]

Page 38 of 78 Attachment A for Permit: M097-32467-00637

Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright

Table 2b to Subpart ZZZZ of Part 63—Operating Limitations for New and Reconstructed 2SLB and CI Stationary RICE >500 HP Located at a Major Source of HAP Emissions, New and Reconstructed 4SLB Stationary RICE ≥250 HP Located at a Major Source of HAP Emissions, Existing CI Stationary RICE >500 HP

As stated in §§ 63.6600, 63.6601, 63.6603, 63.6630, and 63.6640, you must comply with the following operating limitations for new and reconstructed 2SLB and CI stationary RICE >500 HP located at a major source of HAP emissions; new and reconstructed 4SLB stationary RICE ≥250 HP located at a major source of HAP emissions; and existing CI stationary RICE >500 HP:

Table 2b to Subpart ZZZZ of Part 63—Operating Limitations for New and Reconstructed 2SLB and CI Stationary RICE >500 HP Located at a Major Source of HAP Emissions, New and Reconstructed 4SLB Stationary RICE ≥250 HP Located at a Major Source of HAP Emissions, Existing CI Stationary RICE >500 HP

| For each | You must meet the following operating limitation, except during periods of startup |
|---|--|
| 1. New and reconstructed 2SLB and CI stationary RICE >500 HP located at a major source of HAP emissions and new and reconstructed 4SLB stationary RICE ≥250 HP located at a major source of HAP emissions complying with the requirement to reduce CO emissions and using an oxidation catalyst; and New and reconstructed 2SLB and CI stationary RICE >500 HP located at a major source of HAP emissions and new and reconstructed 4SLB stationary RICE ≥250 HP located at a major source of HAP emissions complying with the requirement to limit the concentration of formaldehyde in the stationary RICE exhaust and using an oxidation catalyst. | a. maintain your catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst that was measured during the initial performance test; and b. maintain the temperature of your stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450 °F and less than or equal to 1350 °F. |
| 2. Existing CI stationary RICE >500 HP complying with the requirement to limit or reduce the concentration of CO in the stationary RICE exhaust and using an oxidation catalyst | a. maintain your catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water from the pressure drop across the catalyst that was measured during the initial performance test; and |
| | b. maintain the temperature of your stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450 °F and less than or equal to 1350 °F.1 |
| 3. New and reconstructed 2SLB and CI stationary RICE >500 HP located at a major source of HAP emissions and new and reconstructed 4SLB stationary RICE ≥250 HP located at a major source of HAP emissions complying with the requirement to reduce CO emissions and not using an oxidation catalyst; and | Comply with any operating limitations approved by the Administrator. |

Page 39 of 78 Attachment A for Permit: M097-32467-00637

Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright

| | You must meet the following operating limitation, except during periods of startup |
|--|--|
| New and reconstructed 2SLB and CI stationary RICE >500 HP located at a major source of HAP emissions and new and reconstructed 4SLB stationary RICE ≥250 HP located at a major source of HAP emissions complying with the requirement to limit the concentration of formaldehyde in the stationary RICE exhaust and not using an oxidation catalyst; and | |
| existing CI stationary RICE >500 HP complying with the requirement to limit or reduce the concentration of CO in the stationary RICE exhaust and not using an oxidation catalyst. | |

¹ Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.8(f) for a different temperature range.

[78 FR 6707, Jan. 30, 2013]

Page 40 of 78 Attachment A for Permit: M097-32467-00637

Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright

Table 2c to Subpart ZZZZ of Part 63—Requirements for Existing Compression Ignition Stationary RICE Located at a Major Source of HAP Emissions and Existing Spark Ignition Stationary RICE ≤500 HP Located at a Major Source of HAP Emissions

As stated in §§ 63.6600, 63.6602, and 63.6640, you must comply with the following requirements for existing compression ignition stationary RICE located at a major source of HAP emissions and existing spark ignition stationary RICE ≤500 HP located at a major source of HAP emissions:

Table 2c to Subpart ZZZZ of Part 63—Requirements for Existing Compression Ignition Stationary RICE Located at a Major Source of HAP Emissions and Existing Spark Ignition Stationary RICE ≤500 HP Located at a Major Source of HAP Emissions

| For each | You must meet the following requirement, except during periods of startup | During periods of startup you must |
|---|---|---|
| Emergency stationary CI RICE and black start stationary CI RICE The stationary CI RICE | 1,000 hours of operation or | Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply. ³ |
| 2. Non-Emergency, non-black start stationary CI RICE <100 HP | a. Change oil and filter every 1,000 hours of operation or annually, whichever comes first. ² b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. ³ | |
| 3. Non-Emergency, non-black start CI stationary RICE 100≤HP≤300 HP | Limit concentration of CO in the stationary RICE exhaust to 230 ppmvd or less at 15 percent O ₂ . | |

Page 41 of 78 Attachment A for Permit: M097-32467-00637

Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright

| For each | You must meet the following requirement, except during periods of startup | During periods of startup you must |
|---|---|------------------------------------|
| 4. Non-Emergency, non-black start CI stationary RICE 300>HP≤500." is corrected to read "4. Non-Emergency, non-black start CI stationary RICE 300 <hp≤500.< td=""><td>a. Limit concentration of CO in the stationary RICE exhaust to 49 ppmvd or less at 15 percent O₂; or b. Reduce CO emissions by 70 percent or more.</td><td></td></hp≤500.<> | a. Limit concentration of CO in the stationary RICE exhaust to 49 ppmvd or less at 15 percent O ₂ ; or b. Reduce CO emissions by 70 percent or more. | |
| 5. Non-Emergency, non-black start stationary CI RICE >500 HP | a. Limit concentration of CO in the stationary RICE exhaust to 23 ppmvd or less at 15 percent O ₂ ; or b. Reduce CO emissions by 70 percent or more. | |
| 6. Emergency stationary SI RICE and black start stationary SI RICE. ¹ | a. Change oil and filter every 500 hours of operation or annually, whichever comes first; 2 b. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. | |
| 7. Non-Emergency, non-black start stationary SI RICE <100 HP that are not 2SLB stationary RICE | a. Change oil and filter every 1,440 hours of operation or annually, whichever comes first; ² b. Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first, and replace as necessary; | |
| | c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary. ³ | |

Page 42 of 78 Attachment A for Permit: M097-32467-00637

Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright

| For each | You must meet the following requirement, except during periods of startup | During periods of startup you must |
|---|--|------------------------------------|
| | a. Change oil and filter every 4,320 hours of operation or annually, whichever comes first; ² b. Inspect spark plugs every 4,320 hours of operation or annually, whichever comes first, and replace as necessary; | |
| | c. Inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first, and replace as necessary. ³ | |
| 9. Non-emergency, non-black start 2SLB stationary RICE 100≤HP≤500 | Limit concentration of CO in the stationary RICE exhaust to 225 ppmvd or less at 15 percent O ₂ . | |
| 10. Non-emergency, non-black start 4SLB stationary RICE 100≤HP≤500 | | |
| 11. Non-emergency, non-black start 4SRB stationary RICE 100≤HP≤500 | Limit concentration of formaldehyde in the stationary RICE exhaust to 10.3 ppmvd or less at 15 percent O ₂ . | |
| 12. Non-emergency, non-black start stationary RICE 100≤HP≤500 which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis | | |

¹ If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the schedule required in Table 2c of this subpart, or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the work practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under federal, state, or local law has abated. Sources must report any failure to perform the work practice on the schedule required and the federal, state or local law under which the risk was deemed unacceptable.

² Sources have the option to utilize an oil analysis program as described in § 63.6625(i) or (j) in order to extend the specified oil change requirement in Table 2c of this subpart.

Page 43 of 78 Attachment A for Permit: M097-32467-00637

Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright

[78 FR 6708, Jan. 30, 2013, as amended at 78 FR 14457, Mar. 6, 2013]

Table 2d to Subpart ZZZZ of Part 63—Requirements for Existing Stationary RICE Located at Area Sources of HAP Emissions

As stated in §§ 63.6603 and 63.6640, you must comply with the following requirements for existing stationary RICE located at area sources of HAP emissions:

Table 2d to Subpart ZZZZ of Part 63—Requirements for Existing Stationary RICE Located at Area Sources of HAP Emissions

| For each | You must meet the following requirement, except during periods of startup | During periods of startup you must |
|---|---|--|
| 1. Non-Emergency, non-black start CI stationary RICE ≤300 HP | a. Change oil and filter every 1,000 hours of operation or annually, whichever comes first; b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. | Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply. |
| 2. Non-Emergency, non-black start CI stationary RICE 300 <hp≤500< td=""><td>a. Limit concentration of CO in the stationary RICE exhaust to 49 ppmvd at 15 percent O₂; or</td><td></td></hp≤500<> | a. Limit concentration of CO in the stationary RICE exhaust to 49 ppmvd at 15 percent O ₂ ; or | |
| | b. Reduce CO emissions by 70 percent or more. | |
| 3. Non-Emergency, non-black start CI stationary RICE >500 HP | a. Limit concentration of CO in the stationary RICE exhaust to 23 ppmvd at 15 percent O ₂ ; or | |
| | b. Reduce CO emissions by 70 percent or more. | |

³ Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.6(g) for alternative work practices.

Page 44 of 78 Attachment A for Permit: M097-32467-00637

Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright

| For each | You must meet the following requirement, except during periods of startup | During periods of startup you must |
|---|--|------------------------------------|
| 4. Emergency stationary CI RICE and black start stationary CI RICE. ² | a. Change oil and filter every 500 hours of operation or annually, whichever comes first; ¹ | |
| | b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and | |
| | c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. | |
| 5. Emergency stationary SI RICE; black start stationary SI RICE; non-emergency, non-black start 4SLB stationary RICE >500 HP that operate 24 hours or less per calendar year; non-emergency, non-black start 4SRB stationary RICE >500 HP that operate 24 hours or less per calendar year. ² | a. Change oil and filter every 500 hours of operation or annually, whichever comes first; 1; b. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. | |
| 6. Non-emergency, non-black start 2SLB stationary RICE | a. Change oil and filter every 4,320 hours of operation or annually, whichever comes first; ¹ | |
| | b. Inspect spark plugs every 4,320 hours of operation or annually, whichever comes first, and replace as necessary; and | |

Page 45 of 78 Attachment A for Permit: M097-32467-00637

Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright

| For each | You must meet the following requirement, except during periods of startup | During periods of startup you must |
|--|--|------------------------------------|
| | c. Inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first, and replace as necessary. | |
| 7. Non-emergency, non-black start 4SLB stationary RICE ≤500 HP | a. Change oil and filter every 1,440 hours of operation or annually, whichever comes first; ¹ | |
| | b. Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first, and replace as necessary; and | |
| | c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary. | |
| 8. Non-emergency, non-black start 4SLB remote stationary RICE >500 HP | a. Change oil and filter every 2,160 hours of operation or annually, whichever comes first; ¹ | |
| | b. Inspect spark plugs every 2,160 hours of operation or annually, whichever comes first, and replace as necessary; and | |
| | c. Inspect all hoses and belts every 2,160 hours of operation or annually, whichever comes first, and replace as necessary. | |
| 9. Non-emergency, non-black start 4SLB stationary RICE >500 HP that are not remote stationary RICE and that operate more than 24 hours per calendar year | Install an oxidation catalyst to reduce HAP emissions from the stationary RICE. | |
| 10. Non-emergency, non-black start 4SRB stationary RICE ≤500 HP | a. Change oil and filter every 1,440 hours of operation or annually, whichever comes first; ¹ | |

Page 46 of 78 Attachment A for Permit: M097-32467-00637

| For each | You must meet the following requirement, except during periods of startup | During periods of startup you must |
|--|---|------------------------------------|
| | b. Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first, and replace as necessary; and | |
| | c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary. | |
| 11. Non-emergency, non-black start 4SRB remote stationary RICE >500 HP | a. Change oil and filter every 2,160 hours of operation or annually, whichever comes first; ¹ | |
| | b. Inspect spark plugs every 2,160 hours of operation or annually, whichever comes first, and replace as necessary; and | |
| | c. Inspect all hoses and belts every 2,160 hours of operation or annually, whichever comes first, and replace as necessary. | |
| 12. Non-emergency, non-black start 4SRB stationary RICE >500 HP that are not remote stationary RICE and that operate more than 24 hours per calendar year | Install NSCR to reduce HAP emissions from the stationary RICE. | |
| 13. Non-emergency, non-black start stationary RICE which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis | a. Change oil and filter every 1,440 hours of operation or annually, whichever comes first; ¹ b. Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first, and replace as necessary; and | |

Page 47 of 78 Attachment A for Permit: M097-32467-00637

Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright

| | During periods of startup you must |
|--|------------------------------------|
| c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary. | |

¹ Sources have the option to utilize an oil analysis program as described in § 63.6625(i) or (j) in order to extend the specified oil change requirement in Table 2d of this subpart.

[78 FR 6709, Jan. 30, 2013]

² If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in Table 2d of this subpart, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under federal, state, or local law has abated. Sources must report any failure to perform the management practice on the schedule required and the federal, state or local law under which the risk was deemed unacceptable.

Page 48 of 78 Attachment A for Permit: M097-32467-00637

Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright

Table 3 to Subpart ZZZZ of Part 63—Subsequent Performance Tests

As stated in §§ 63.6615 and 63.6620, you must comply with the following subsequent performance test requirements:

Table 3 to Subpart ZZZZ of Part 63—Subsequent Performance Tests

| For each | Complying with the requirement to | You must |
|---|--|---|
| 1 | Reduce CO emissions and not using a CEMS | Conduct subsequent performance tests semiannually.1 |
| 2. 4SRB stationary RICE ≥5,000 HP located at major sources | Reduce formaldehyde emissions | Conduct subsequent performance tests semiannually.1 |
| 3. Stationary RICE >500 HP located at major sources and new or reconstructed 4SLB stationary RICE 250≤HP≤500 located at major sources | Limit the concentration of formaldehyde in the stationary RICE exhaust | Conduct subsequent performance tests semiannually.1 |
| 4. Existing non-emergency, non-black start CI stationary RICE >500 HP that are not limited use stationary RICE | Limit or reduce CO emissions and not using a CEMS | Conduct subsequent performance tests every 8,760 hours or 3 years, whichever comes first. |
| 5. Existing non-emergency, non-black start CI stationary RICE >500 HP that are limited use stationary RICE | Limit or reduce CO emissions and not using a CEMS | Conduct subsequent performance tests every 8,760 hours or 5 years, whichever comes first. |

¹ After you have demonstrated compliance for two consecutive tests, you may reduce the frequency of subsequent performance tests to annually. If the results of any subsequent annual performance test indicate the stationary RICE is not in compliance with the CO or formaldehyde emission limitation, or you deviate from any of your operating limitations, you must resume semiannual performance tests.

[78 FR 6711, Jan. 30, 2013]

Page 49 of 78 Attachment A for Permit: M097-32467-00637

Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright

Table 4 to Subpart ZZZZ of Part 63—Requirements for Performance Tests

As stated in §§ 63.6610, 63.6611, 63.6612, 63.6620, and 63.6640, you must comply with the following requirements for performance tests for stationary RICE:

Table 4 to Subpart ZZZZ of Part 63. Requirements for Performance Tests

| For each | Complying with the requirement to | You must | Using | According to the following requirements |
|---|-----------------------------------|---|--|--|
| 1. 2SLB, 4SLB, and CI stationary RICE | | i. Measure the O ₂ at the inlet and outlet of the control device; and | (1) Method 3 or 3A or 3B of 40 CFR part 60, appendix A, or ASTM Method D6522- 00 (Reapproved 2005). | determine O ₂ must be |
| | | ii. Measure the CO at the inlet and the outlet of the control device | (1) ASTM D6522-00 (Reapproved 2005) abcor Method 10 of 40 CFR part 60, appendix A | (a) The CO concentration must be at 15 percent O ₂ , dry basis. |
| 2. 4SRB stationary RICE | formaldehyde emissions | i. Select the sampling port location and the number of traverse points; and | (1) Method 1 or 1A of 40 CFR part 60, appendix A § 63.7(d)(1)(i) | (a) sampling sites must be located at the inlet and outlet of the control device. |
| | | ii. Measure O ₂ at the inlet and outlet of the control device; and | (1) Method 3 or 3A or 3B of 40 CFR part 60, appendix A, or ASTM Method D6522- 00 (Reapproved 2005). ^a | (a) measurements to determine O₂concentration must be made at the same time as the measurements for formaldehyde or THC concentration. |
| | | iii. Measure moisture content at the inlet and outlet of the control device; and | (1) Method 4 of 40 CFR part 60, appendix A, or Test Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348-03. ^a | content must be made |
| | | | (1) Method 320 or 323 of 40 CFR part 63, appendix A; or ASTM D6348-03, appendix D6348-03 Annex A5 (Analyte Spiking Technique), the percent R must be greater than or equal to 70 and less than or equal to 130 | (a) formaldehyde concentration must be at 15 percent O ₂ , dry basis. Results of this test consist of the average of the three 1-hour or longer runs. |

| For each | Complying with the requirement to | You must | Using | According to the following requirements |
|--------------------------|-----------------------------------|--|---|--|
| | | v. If demonstrating compliance with the THC percent reduction requirement, measure THC at the inlet and the outlet of the control device | (1) Method 25A, reported as propane, of 40 CFR part 60, appendix A | (a) THC concentration must be at 15 percent O ₂ , dry basis. Results of this test consist of the average of the three 1-hour or longer runs. |
| 3. Stationary RICE | concentration of formaldehyde or | i. Select the sampling port location and the number of traverse points; and | (1) Method 1 or 1A of 40 CFR part 60, appendix A § 63.7(d)(1)(i) | (a) if using a control device, the sampling site must be located at the outlet of the control device. |
| | | ii. Determine the O₂concentration of the stationary RICE exhaust at the sampling port location; and | (1) Method 3 or 3A or 3B of 40 CFR part 60, appendix A, or ASTM Method D6522- 00 (Reapproved 2005). ^a | determine |
| | | iii. Measure moisture content of the stationary RICE exhaust at the sampling port location; and | (1) Method 4 of 40 CFR part 60, appendix A, or Test Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348-03. ^a | content must be made |
| | | iv. Measure formaldehyde at the exhaust of the stationary RICE; or | (1) Method 320 or 323 of 40 CFR part 63, appendix A; or ASTM D6348- 03, aprovided in ASTM D6348-03 Annex A5 (Analyte Spiking Technique), the percent R must be greater than or equal to 70 and less than or equal to 130 | (a) Formaldehyde concentration must be at 15 percent O ₂ , dry basis. Results of this test consist of the average of the three 1-hour or longer runs. |
| | | v. measure CO at the exhaust of the stationary RICE. | (1) Method 10 of 40 CFR part 60, appendix A, ASTM Method D6522-00 (2005), a Method 320 of 40 CFR part 63, appendix A, or ASTM D6348-03.a | (a) CO concentration must be at 15 percent O ₂ , dry basis. Results of this test consist of the average of the three 1-hour or longer runs. |

Page 51 of 78 Attachment A for Permit: M097-32467-00637

Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright

[78 FR 6711, Jan. 30, 2013]

Table 5 to Subpart ZZZZ of Part 63—Initial Compliance With Emission Limitations, Operating Limitations, and Other Requirements

As stated in §§ 63.6612, 63.6625 and 63.6630, you must initially comply with the emission and operating limitations as required by the following:

Table 5 to Subpart ZZZZ of Part 63—Initial Compliance With Emission Limitations, Operating Limitations, and Other Requirements

| For each | Complying with the requirement to | You have demonstrated initial compliance if |
|--|--|--|
| 1. New or reconstructed non-emergency 2SLB stationary RICE >500 HP located at a major source of HAP, new or reconstructed non-emergency 4SLB stationary RICE ≥250 HP located at a major source of HAP, non-emergency stationary CI RICE >500 HP located at a major source of HAP, and existing non-emergency stationary CI RICE >500 HP located at an area source of HAP | a. Reduce CO emissions and using oxidation catalyst, and using a CPMS | i. The average reduction of emissions of CO determined from the initial performance test achieves the required CO percent reduction; and ii. You have installed a CPMS to continuously monitor catalyst inlet temperature according to the requirements in § 63.6625(b); and iii. You have recorded the catalyst pressure drop and catalyst inlet temperature during the initial performance test. |
| 2. Non-emergency stationary CI RICE >500 HP located at a major source of HAP, and existing non-emergency stationary CI RICE >500 HP located at an area source of HAP | a. Limit the concentration of CO, using oxidation catalyst, and using a CPMS | i. The average CO concentration determined from the initial performance test is less than or equal to the CO emission limitation; and |
| | | ii. You have installed a CPMS to continuously monitor catalyst inlet temperature according to the requirements in § 63.6625(b); and |
| | | iii. You have recorded the catalyst pressure drop and catalyst inlet temperature during the initial performance test. |

^a Incorporated by reference, see 40 CFR 63.14. You may also obtain copies from University Microfilms International, 300 North Zeeb Road, Ann Arbor, MI 48106.

^b You may also use Method 320 of 40 CFR part 63, appendix A, or ASTM D6348-03.

^c ASTM-D6522-00 (2005) may be used to test both CI and SI stationary RICE.

Page 52 of 78 Attachment A for Permit: M097-32467-00637

| For each | Complying with the requirement to | You have demonstrated initial compliance if |
|--|--|--|
| 3. New or reconstructed non-emergency 2SLB stationary RICE >500 HP located at a major source of HAP, new or reconstructed non-emergency 4SLB stationary RICE ≥250 HP located at a major source of HAP, non-emergency stationary CI RICE >500 HP located at a major source of HAP, and existing non-emergency stationary CI RICE >500 HP located at an area source of HAP | a. Reduce CO emissions and not using oxidation catalyst | i. The average reduction of emissions of CO determined from the initial performance test achieves the required CO percent reduction; and ii. You have installed a CPMS to continuously monitor operating parameters approved by the Administrator (if any) according to the requirements in § 63.6625(b); and iii. You have recorded the approved operating parameters (if any) during the initial performance test. |
| 4. Non-emergency stationary CI RICE >500 HP located at a major source of HAP, and existing non-emergency stationary CI RICE >500 HP located at an area source of HAP | a. Limit the concentration of CO, and not using oxidation catalyst | i. The average CO concentration determined from the initial performance test is less than or equal to the CO emission limitation; and ii. You have installed a CPMS to continuously monitor operating parameters approved by the Administrator (if any) according to the requirements in § 63.6625(b); and |
| | | iii. You have recorded the approved operating parameters (if any) during the initial performance test. |
| 5. New or reconstructed non-emergency 2SLB stationary RICE >500 HP located at a major source of HAP, new or reconstructed non-emergency 4SLB stationary RICE ≥250 HP located at a major source of HAP, non-emergency stationary CI RICE >500 HP located at a major source of HAP, and existing non-emergency stationary CI RICE >500 HP located at an area source of HAP | a. Reduce CO emissions, and using a CEMS | i. You have installed a CEMS to continuously monitor CO and either O₂or CO₂at both the inlet and outlet of the oxidation catalyst according to the requirements in § 63.6625(a); and ii. You have conducted a performance evaluation of your CEMS using PS 3 and 4A of 40 CFR part 60, appendix B; and |
| | | iii. The average reduction of CO calculated using § 63.6620 equals or exceeds the required percent reduction. The initial test comprises the first 4-hour period after successful validation of the CEMS. Compliance is based on the average percent reduction achieved during the 4-hour period. |
| 6. Non-emergency stationary CI RICE >500 HP located at a major source of HAP, and existing non-emergency stationary CI RICE >500 HP located at an area source of HAP | a. Limit the concentration of CO, and using a CEMS | i. You have installed a CEMS to continuously monitor CO and either O ₂ or CO ₂ at the outlet of the oxidation catalyst according to the requirements in § 63.6625(a); and |

Page 53 of 78 Attachment A for Permit: M097-32467-00637

| For each | Complying with the requirement to | You have demonstrated initial compliance if |
|--|--|---|
| | | ii. You have conducted a performance evaluation of your CEMS using PS 3 and 4A of 40 CFR part 60, appendix B; and |
| | | iii. The average concentration of CO calculated using § 63.6620 is less than or equal to the CO emission limitation. The initial test comprises the first 4-hour period after successful validation of the CEMS. Compliance is based on the average concentration measured during the 4-hour period. |
| 7. Non-emergency 4SRB stationary RICE >500 HP located at a major source of HAP | a. Reduce formaldehyde emissions and using NSCR | i. The average reduction of emissions of formaldehyde determined from the initial performance test is equal to or greater than the required formaldehyde percent reduction, or the average reduction of emissions of THC determined from the initial performance test is equal to or greater than 30 percent; and |
| | | ii. You have installed a CPMS to continuously monitor catalyst inlet temperature according to the requirements in § 63.6625(b); and |
| | | iii. You have recorded the catalyst pressure drop and catalyst inlet temperature during the initial performance test. |
| 8. Non-emergency 4SRB stationary RICE >500 HP located at a major source of HAP | a. Reduce formaldehyde emissions and not using NSCR | i. The average reduction of emissions of formaldehyde determined from the initial performance test is equal to or greater than the required formaldehyde percent reduction or the average reduction of emissions of THC determined from the initial performance test is equal to or greater than 30 percent; and |
| | | ii. You have installed a CPMS to continuously monitor operating parameters approved by the Administrator (if any) according to the requirements in § 63.6625(b); and |
| | | iii. You have recorded the approved operating parameters (if any) during the initial performance test. |

Page 54 of 78 Attachment A for Permit: M097-32467-00637

| For each | | You have demonstrated initial compliance if |
|--|--|---|
| 9. New or reconstructed non-emergency stationary RICE >500 HP located at a major source of HAP, new or reconstructed non-emergency 4SLB stationary RICE 250≤HP≤500 located at a major source of HAP, and existing non-emergency 4SRB stationary RICE >500 HP located at a major source of HAP | oxidation catalyst or NSCR | i. The average formaldehyde concentration, corrected to 15 percent O ₂ , dry basis, from the three test runs is less than or equal to the formaldehyde emission limitation; and ii. You have installed a CPMS to continuously monitor catalyst inlet temperature according to the requirements in § 63.6625(b); and |
| | | iii. You have recorded the catalyst pressure drop and catalyst inlet temperature during the initial performance test. |
| 10. New or reconstructed non-emergency stationary RICE >500 HP located at a major source of HAP, new or reconstructed non-emergency 4SLB stationary RICE 250≤HP≤500 located at a major source of HAP, and existing non-emergency 4SRB stationary RICE >500 HP located at a major source of HAP | exhaust and not using oxidation catalyst or NSCR | i. The average formaldehyde concentration, corrected to 15 percent O ₂ , dry basis, from the three test runs is less than or equal to the formaldehyde emission limitation; and ii. You have installed a CPMS to continuously monitor operating parameters approved by the Administrator (if any) according to the requirements in § 63.6625(b); and |
| | | iii. You have recorded the approved operating parameters (if any) during the initial performance test. |
| 11. Existing non-emergency stationary RICE 100≤HP≤500 located at a major source of HAP, and existing non-emergency stationary CI RICE 300 <hp≤500 an="" area="" at="" hap<="" located="" of="" source="" td=""><td></td><td>i. The average reduction of emissions of CO or formaldehyde, as applicable determined from the initial performance test is equal to or greater than the required CO or formaldehyde, as applicable, percent reduction.</td></hp≤500> | | i. The average reduction of emissions of CO or formaldehyde, as applicable determined from the initial performance test is equal to or greater than the required CO or formaldehyde, as applicable, percent reduction. |
| 12. Existing non-emergency stationary RICE 100≤HP≤500 located at a major source of HAP, and existing non-emergency stationary CI RICE 300 <hp≤500 an="" area="" at="" hap<="" located="" of="" source="" td=""><td>concentration of formaldehyde or CO in the stationary RICE exhaust</td><td>i. The average formaldehyde or CO concentration, as applicable, corrected to 15 percent O₂, dry basis, from the three test runs is less than or equal to the formaldehyde or CO emission limitation, as applicable.</td></hp≤500> | concentration of formaldehyde or CO in the stationary RICE exhaust | i. The average formaldehyde or CO concentration, as applicable, corrected to 15 percent O ₂ , dry basis, from the three test runs is less than or equal to the formaldehyde or CO emission limitation, as applicable. |
| 13. Existing non-emergency 4SLB stationary RICE >500 HP located at an area source of HAP that are not remote stationary RICE and that are operated more than 24 hours per calendar year | catalyst | i. You have conducted an initial compliance demonstration as specified in § 63.6630(e) to show that the average reduction of emissions of CO is 93 percent or more, or the average CO concentration is less than or equal to 47 ppmvd at 15 percent O ₂ ; |

Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright

| For each | Complying with the requirement to | You have demonstrated initial compliance if |
|---|-----------------------------------|--|
| | | ii. You have installed a CPMS to continuously monitor catalyst inlet temperature according to the requirements in § 63.6625(b), or you have installed equipment to automatically shut down the engine if the catalyst inlet temperature exceeds 1350 °F. |
| 14. Existing non-emergency 4SRB stationary RICE >500 HP located at an area source of HAP that are not remote stationary RICE and that are operated more than 24 hours per calendar year | a. Install NSCR | i. You have conducted an initial compliance demonstration as specified in § 63.6630(e) to show that the average reduction of emissions of CO is 75 percent or more, the average CO concentration is less than or equal to 270 ppmvd at 15 percent O ₂ , or the average reduction of emissions of THC is 30 percent or more; |
| | | ii. You have installed a CPMS to continuously monitor catalyst inlet temperature according to the requirements in § 63.6625(b), or you have installed equipment to automatically shut down the engine if the catalyst inlet temperature exceeds 1250 °F. |

[78 FR 6712, Jan. 30, 2013]

Page 56 of 78 Attachment A for Permit: M097-32467-00637

Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright

Table 6 to Subpart ZZZZ of Part 63—Continuous Compliance With Emission Limitations, and Other Requirements

As stated in § 63.6640, you must continuously comply with the emissions and operating limitations and work or management practices as required by the following:

Table 6 to Subpart ZZZZ of Part 63—Continuous Compliance With Emission Limitations, and Other Requirements

| For each | Complying with the requirement to | You must demonstrate continuous compliance by |
|---|---|--|
| 1. New or reconstructed non-emergency 2SLB stationary RICE >500 HP located at a major source of HAP, new or reconstructed non-emergency 4SLB stationary RICE ≥250 HP located at a major source of HAP, and new or reconstructed non-emergency CI stationary RICE >500 HP located at a major source of HAP | a. Reduce CO emissions and using an oxidation catalyst, and using a CPMS | i. Conducting semiannual performance tests for CO to demonstrate that the required CO percent reduction is achieved ^a ; and ii. Collecting the catalyst inlet temperature data according to § 63.6625(b); and iii. Reducing these data to 4-hour rolling averages; and |
| | | iv. Maintaining the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and |
| | | v. Measuring the pressure drop across the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test. |
| 2. New or reconstructed non-emergency 2SLB stationary RICE >500 HP located at a major source of HAP, new or reconstructed non-emergency 4SLB stationary RICE ≥250 HP located at a major source of HAP, and new or reconstructed non-emergency CI stationary RICE >500 HP located at a major source of HAP | a. Reduce CO emissions and not using an oxidation catalyst, and using a CPMS | i. Conducting semiannual performance tests for CO to demonstrate that the required CO percent reduction is achieved ^a ; and ii. Collecting the approved operating parameter (if any) data according to § 63.6625(b); and iii. Reducing these data to 4-hour rolling averages; and |
| | | iv. Maintaining the 4-hour rolling averages within the operating limitations for the operating parameters established during the performance test. |

Page 57 of 78 Attachment A for Permit: M097-32467-00637

| For each | | You must demonstrate continuous compliance by |
|--|---|---|
| 3. New or reconstructed non-emergency 2SLB stationary RICE >500 HP located at a major source of HAP, new or reconstructed non-emergency 4SLB stationary RICE ≥250 HP located at a major source of HAP, new or reconstructed non-emergency stationary CI RICE >500 HP located at a major source of HAP, and existing non-emergency stationary CI RICE >500 HP | emissions or limit the concentration of CO in the stationary RICE exhaust, and using a CEMS | i. Collecting the monitoring data according to § 63.6625(a), reducing the measurements to 1-hour averages, calculating the percent reduction or concentration of CO emissions according to § 63.6620; and ii. Demonstrating that the catalyst achieves the required percent reduction of CO emissions over the 4-hour averaging period, or that the emission remain at or below the CO concentration limit; and |
| | | iii. Conducting an annual RATA of your CEMS using PS 3 and 4A of 40 CFR part 60, appendix B, as well as daily and periodic data quality checks in accordance with 40 CFR part 60, appendix F, procedure 1. |
| 4. Non-emergency 4SRB stationary RICE >500 HP located at a major source of HAP | formaldehyde | i. Collecting the catalyst inlet temperature data according to § 63.6625(b); and |
| | | ii. Reducing these data to 4-hour rolling averages; and |
| | | iii. Maintaining the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and |
| | | iv. Measuring the pressure drop across the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test. |
| 5. Non-emergency 4SRB stationary RICE >500 HP located at a major source of HAP | formaldehyde | i. Collecting the approved operating parameter (if any) data according to § 63.6625(b); and |
| | | ii. Reducing these data to 4-hour rolling averages; and |
| | | iii. Maintaining the 4-hour rolling averages within the operating limitations for the operating parameters established during the performance test. |

Page 58 of 78 Attachment A for Permit: M097-32467-00637

| For each | Complying with the requirement to | You must demonstrate continuous compliance by |
|--|--|--|
| 6. Non-emergency 4SRB stationary RICE with a brake HP ≥5,000 located at a major source of HAP | a. Reduce formaldehyde emissions | Conducting semiannual performance tests for formaldehyde to demonstrate that the required formaldehyde percent reduction is achieved, or to demonstrate that the average reduction of emissions of THC determined from the performance test is equal to or greater than 30 percent. ^a |
| 7. New or reconstructed non-emergency stationary RICE >500 HP located at a major source of HAP and new or reconstructed non-emergency 4SLB stationary RICE 250≤HP≤500 located at a major source of HAP | a. Limit the concentration of formaldehyde in the stationary RICE exhaust and using oxidation catalyst or NSCR | i. Conducting semiannual performance tests for formaldehyde to demonstrate that your emissions remain at or below the formaldehyde concentration limit ^a ; and ii. Collecting the catalyst inlet temperature data according to § 63.6625(b); and |
| | | iii. Reducing these data to 4-hour rolling averages; and |
| | | iv. Maintaining the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and |
| | | v. Measuring the pressure drop across the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test. |
| 8. New or reconstructed non-emergency stationary RICE >500 HP located at a major source of HAP and new or reconstructed non-emergency 4SLB stationary RICE 250≤HP≤500 located at a major source of HAP | a. Limit the concentration of formaldehyde in the stationary RICE exhaust and not using oxidation catalyst or NSCR | i. Conducting semiannual performance tests for formaldehyde to demonstrate that your emissions remain at or below the formaldehyde concentration limit ^a ; and ii. Collecting the approved operating parameter (if any) data according to § 63.6625(b); and |
| | | iii. Reducing these data to 4-hour rolling averages; and |
| | | iv. Maintaining the 4-hour rolling averages within the operating limitations for the operating parameters established during the performance test. |

Page 59 of 78 Attachment A for Permit: M097-32467-00637

| For each | . , . | You must demonstrate continuous compliance by |
|--|--|--|
| 9. Existing emergency and black start stationary RICE ≤500 HP located at a major source of HAP, existing non-emergency stationary RICE <100 HP located at a major source of HAP, existing emergency and black start stationary RICE located at an area source of HAP, existing non-emergency stationary CI RICE ≤300 HP located at an area source of HAP, existing non-emergency 2SLB stationary RICE located at an area source of HAP, existing non-emergency stationary SI RICE located at an area source of HAP which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, existing non-emergency 4SLB and 4SRB stationary RICE ≤500 HP located at an area source of HAP, existing non-emergency 4SLB and 4SRB stationary RICE >500 HP located at an area source of HAP that operate 24 hours or less per calendar year, and existing non-emergency 4SLB and 4SRB stationary RICE >500 HP located at an area source of HAP that operate 24 hours or less per calendar year, and existing non-emergency 4SLB and 4SRB stationary RICE >500 HP located at an area source of HAP that are remote stationary RICE | Management practices | i. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or ii. Develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. |
| 10. Existing stationary CI RICE >500 HP that are not limited use stationary RICE | emissions, or limit the concentration of CO in the stationary RICE exhaust, and using oxidation catalyst | i. Conducting performance tests every 8,760 hours or 3 years, whichever comes first, for CO or formaldehyde, as appropriate, to demonstrate that the required CO or formaldehyde, as appropriate, percent reduction is achieved or that your emissions remain at or below the CO or formaldehyde concentration limit; and |
| | | ii. Collecting the catalyst inlet temperature data according to § 63.6625(b); and |
| | | iii. Reducing these data to 4-hour rolling averages; and |
| | | iv. Maintaining the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and |
| | | v. Measuring the pressure drop across the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test. |

Page 60 of 78 Attachment A for Permit: M097-32467-00637

| For each | | You must demonstrate continuous compliance by |
|--|--|---|
| 11. Existing stationary CI RICE >500 HP that are not limited use stationary RICE | emissions, or limit the concentration of CO in the stationary RICE | i. Conducting performance tests every 8,760 hours or 3 years, whichever comes first, for CO or formaldehyde, as appropriate, to demonstrate that the required CO or formaldehyde, as appropriate, percent reduction is achieved or that your emissions remain at or below the CO or formaldehyde concentration limit; and |
| | | ii. Collecting the approved operating parameter (if any) data according to § 63.6625(b); and |
| | | iii. Reducing these data to 4-hour rolling averages; and |
| | | iv. Maintaining the 4-hour rolling averages within the operating limitations for the operating parameters established during the performance test. |
| 12. Existing limited use CI stationary RICE >500 HP | emissions or limit the concentration of CO in the stationary RICE exhaust, and using an oxidation catalyst | i. Conducting performance tests every 8,760 hours or 5 years, whichever comes first, for CO or formaldehyde, as appropriate, to demonstrate that the required CO or formaldehyde, as appropriate, percent reduction is achieved or that your emissions remain at or below the CO or formaldehyde concentration limit; and |
| | | ii. Collecting the catalyst inlet temperature data according to § 63.6625(b); and |
| | | iii. Reducing these data to 4-hour rolling averages; and |
| | | iv. Maintaining the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and |
| | | v. Measuring the pressure drop across the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test. |

Page 61 of 78 Attachment A for Permit: M097-32467-00637

| For each | Complying with the requirement to | You must demonstrate continuous compliance by |
|---|--|---|
| 13. Existing limited use CI stationary RICE >500 HP | concentration of CO in the stationary RICE exhaust, and not using an oxidation catalyst | i. Conducting performance tests every 8,760 hours or 5 years, whichever comes first, for CO or formaldehyde, as appropriate, to demonstrate that the required CO or formaldehyde, as appropriate, percent reduction is achieved or that your emissions remain at or below the CO or formaldehyde concentration limit; and |
| | | ii. Collecting the approved operating parameter (if any) data according to § 63.6625(b); and |
| | | iii. Reducing these data to 4-hour rolling averages; and |
| | | iv. Maintaining the 4-hour rolling averages within the operating limitations for the operating parameters established during the performance test. |
| 14. Existing non-emergency 4SLB stationary RICE >500 HP located at an area source of HAP that are not remote stationary RICE and that are operated more than 24 hours per calendar year | a. Install an oxidation catalyst | i. Conducting annual compliance demonstrations as specified in § 63.6640(c) to show that the average reduction of emissions of CO is 93 percent or more, or the average CO concentration is less than or equal to 47 ppmvd at 15 percent O ₂ ; and either ii. Collecting the catalyst inlet temperature data according to § 63.6625(b), reducing these data to 4-hour rolling averages; and maintaining the 4-hour rolling averages within the limitation of greater than 450 °F and less than or equal to 1350 °F for the catalyst inlet temperature; or iii. Immediately shutting down the engine if the catalyst inlet temperature exceeds 1350 °F. |

Page 62 of 78 Attachment A for Permit: M097-32467-00637

Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright

| For each | You must demonstrate continuous compliance by |
|---|--|
| 15. Existing non-emergency 4SRB stationary RICE >500 HP located at an area source of HAP that are not remote stationary RICE and that are operated more than 24 hours per calendar year | i. Conducting annual compliance demonstrations as specified in § 63.6640(c) to show that the average reduction of emissions of CO is 75 percent or more, the average CO concentration is less than or equal to 270 ppmvd at 15 percent O ₂ ,or the average reduction of emissions of THC is 30 percent or more; and either ii. Collecting the catalyst inlet temperature data according to § 63.6625(b), reducing these data to 4-hour rolling averages; and maintaining the 4-hour rolling averages within the limitation of greater than or equal to 750 °F and less than or equal to 1250 °F for the catalyst inlet temperature; or iii. Immediately shutting down the engine if the catalyst inlet temperature exceeds 1250 °F. |

^a After you have demonstrated compliance for two consecutive tests, you may reduce the frequency of subsequent performance tests to annually. If the results of any subsequent annual performance test indicate the stationary RICE is not in compliance with the CO or formaldehyde emission limitation, or you deviate from any of your operating limitations, you must resume semiannual performance tests.

[78 FR 6715, Jan. 30, 2013]

Table 7 to Subpart ZZZZ of Part 63—Requirements for Reports

As stated in § 63.6650, you must comply with the following requirements for reports:

Table 7 to Subpart ZZZZ of Part 63—Requirements for Reports

| | You must submit a | | You must submit the |
|--|----------------------|---|---|
| For each | | The report must contain | report |
| 1. Existing non-emergency, non-black start stationary RICE 100≤HP≤500 located at a major source of HAP; existing non-emergency, non-black start stationary CI RICE >500 HP located at a major source of HAP; existing non-emergency 4SRB stationary RICE >500 HP located at a major source of HAP; existing non-emergency, non-black start stationary CI RICE >300 HP located at an area source of HAP; new or reconstructed non-emergency stationary RICE >500 HP located at a major source of HAP; and new or reconstructed non-emergency 4SLB stationary RICE 250≤HP≤500 located at a major source of HAP | report | no deviations from the emission limitations or operating limitations during the reporting period. If there were no periods during which the CMS, including CEMS and CPMS, was out-of-control, as specified in § 63.8(c)(7), a | according to the requirements in § 63.6650(b)(1)-(5) for engines that are not |
| | | limitation during the reporting | i. Semiannually according to the requirements in § 63.6650(b). |
| | | | i. Semiannually according to the requirements in § 63.6650(b). |
| 2. New or reconstructed non- emergency stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis | · | | i. Annually, according to the requirements in § 63.6650. |

Page 64 of 78 Attachment A for Permit: M097-32467-00637

Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright

| For each | You must submit a | The report must contain | You must submit the report |
|--|----------------------|--|---|
| | | b. The operating limits provided in your federally enforceable permit, and any deviations from these limits; and | i. See item 2.a.i. |
| | | c. Any problems or errors suspected with the meters. | i. See item 2.a.i. |
| 3. Existing non-emergency, non- black start 4SLB and 4SRB stationary RICE >500 HP located at an area source of HAP that are not remote stationary RICE and that operate more than 24 hours per calendar year | report | a. The results of the annual compliance demonstration, if conducted during the reporting period. | i. Semiannually according to the requirements in § 63.6650(b)(1)-(5). |
| 4. Emergency stationary RICE that operate or are contractually obligated to be available for more than 15 hours per year for the purposes specified in § 63.6640(f)(2)(ii) and (iii) or that operate for the purposes specified in § 63.6640(f)(4)(ii) | | a. The information in § 63.6650(h)(1) | i. annually according to the requirements in § 63.6650(h)(2)-(3). |

[78 FR 6719, Jan. 30, 2013]

Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright

Table 8 to Subpart ZZZZ of Part 63—Applicability of General Provisions to Subpart ZZZZ.

As stated in § 63.6665, you must comply with the following applicable general provisions.

| General provisions citation | Subject of citation | Applies to subpart | Explanation |
|-----------------------------------|---|--------------------|--|
| § 63.1 | General applicability of the General Provisions | Yes. | |
| § 63.2 | Definitions | Yes | Additional terms defined in § 63.6675. |
| § 63.3 | Units and abbreviations | Yes. | |
| § 63.4 | Prohibited activities and circumvention | Yes. | |
| § 63.5 | Construction and reconstruction | Yes. | |
| § 63.6(a) | Applicability | Yes. | |
| § 63.6(b)(1)-(4) | Compliance dates for new and reconstructed sources | Yes. | |
| § 63.6(b)(5) | Notification | Yes. | |
| § 63.6(b)(6) | [Reserved] | | |
| § 63.6(b)(7) | Compliance dates for new and reconstructed area sources that become major sources | Yes. | |
| § 63.6(c)(1)-(2) | Compliance dates for existing sources | Yes. | |
| § 63.6(c)(3)-(4) | [Reserved] | | |
| § 63.6(c)(5) | Compliance dates for existing area sources that become major sources | Yes. | |
| § 63.6(d) | [Reserved] | | |
| § 63.6(e) | Operation and maintenance | No. | |
| § 63.6(f)(1) | Applicability of standards | No. | |
| § 63.6(f)(2) | Methods for determining compliance | Yes. | |
| § 63.6(f)(3) | Finding of compliance | Yes. | |
| § 63.6(g)(1)-(3) | Use of alternate standard | Yes. | |
| § 63.6(h) | Opacity and visible emission standards | No | Subpart ZZZZ does not contain opacity or visible emission standards. |
| § 63.6(i) | Compliance extension procedures and criteria | Yes. | |

| General provisions citation | Subject of citation | Applies to subpart | Explanation |
|-----------------------------------|--|--------------------|---|
| § 63.6(j) | Presidential compliance exemption | Yes. | |
| § 63.7(a)(1)-(2) | Performance test dates | Yes | Subpart ZZZZ contains performance test dates at §§ 63.6610, 63.6611, and 63.6612. |
| § 63.7(a)(3) | CAA section 114 authority | Yes. | |
| § 63.7(b)(1) | Notification of performance test | Yes | Except that § 63.7(b)(1) only applies as specified in § 63.6645. |
| § 63.7(b)(2) | Notification of rescheduling | Yes | Except that § 63.7(b)(2) only applies as specified in § 63.6645. |
| § 63.7(c) | Quality assurance/test plan | Yes | Except that § 63.7(c) only applies as specified in § 63.6645. |
| § 63.7(d) | Testing facilities | Yes. | |
| § 63.7(e)(1) | Conditions for conducting performance tests | No. | Subpart ZZZZ specifies conditions for conducting performance tests at § 63.6620. |
| § 63.7(e)(2) | Conduct of performance tests and reduction of data | Yes | Subpart ZZZZ specifies test methods at § 63.6620. |
| § 63.7(e)(3) | Test run duration | Yes. | |
| § 63.7(e)(4) | Administrator may require other testing under section 114 of the CAA | Yes. | |
| § 63.7(f) | Alternative test method provisions | Yes. | |
| § 63.7(g) | Performance test data analysis, recordkeeping, and reporting | Yes. | |
| § 63.7(h) | Waiver of tests | Yes. | |
| § 63.8(a)(1) | Applicability of monitoring requirements | Yes | Subpart ZZZZ contains specific requirements for monitoring at § 63.6625. |
| § 63.8(a)(2) | Performance specifications | Yes. | |
| § 63.8(a)(3) | [Reserved] | | |
| § 63.8(a)(4) | Monitoring for control devices | No. | |
| § 63.8(b)(1) | Monitoring | Yes. | |
| § 63.8(b)(2)-(3) | Multiple effluents and multiple monitoring systems | Yes. | |
| § 63.8(c)(1) | Monitoring system operation and maintenance | Yes. | |

| General provisions citation | Subject of citation | Applies to subpart | Explanation |
|-----------------------------------|---|---|---|
| § 63.8(c)(1)(i) | Routine and predictable SSM | No | |
| § 63.8(c)(1)(ii) | SSM not in Startup Shutdown Malfunction Plan | Yes. | |
| § 63.8(c)(1)(iii) | Compliance with operation and maintenance requirements | No | |
| § 63.8(c)(2)-(3) | Monitoring system installation | Yes. | |
| § 63.8(c)(4) | Continuous monitoring system (CMS) requirements | Yes | Except that subpart ZZZZ does not require Continuous Opacity Monitoring System (COMS). |
| § 63.8(c)(5) | COMS minimum procedures | No | Subpart ZZZZ does not require COMS. |
| § 63.8(c)(6)-(8) | CMS requirements | Yes | Except that subpart ZZZZ does not require COMS. |
| § 63.8(d) | CMS quality control | Yes. | |
| § 63.8(e) | CMS performance evaluation | Yes | Except for § 63.8(e)(5)(ii), which applies to COMS. |
| | | Except that § 63.8(e) only applies as specified in § 63.6645. | |
| § 63.8(f)(1)-(5) | Alternative monitoring method | Yes | Except that § 63.8(f)(4) only applies as specified in § 63.6645. |
| § 63.8(f)(6) | Alternative to relative accuracy test | Yes | Except that § 63.8(f)(6) only applies as specified in § 63.6645. |
| § 63.8(g) | Data reduction | Yes | Except that provisions for COMS are not applicable. Averaging periods for demonstrating compliance are specified at §§ 63.6635 and 63.6640. |
| § 63.9(a) | Applicability and State delegation of notification requirements | Yes. | |
| § 63.9(b)(1)-(5) | Initial notifications | Yes | Except that § 63.9(b)(3) is reserved. |
| | | Except that § 63.9(b) only applies as specified in § 63.6645. | |

| General provisions citation | Subject of citation | Applies to subpart | Explanation |
|-----------------------------------|---|---|---|
| § 63.9(c) | Request for compliance extension | Yes | Except that § 63.9(c) only applies as specified in § 63.6645. |
| § 63.9(d) | Notification of special compliance requirements for new sources | Yes | Except that § 63.9(d) only applies as specified in § 63.6645. |
| § 63.9(e) | Notification of performance test | Yes | Except that § 63.9(e) only applies as specified in § 63.6645. |
| § 63.9(f) | Notification of visible emission (VE)/opacity test | No | Subpart ZZZZ does not contain opacity or VE standards. |
| § 63.9(g)(1) | Notification of performance evaluation | Yes | Except that § 63.9(g) only applies as specified in § 63.6645. |
| § 63.9(g)(2) | Notification of use of COMS data | No | Subpart ZZZZ does not contain opacity or VE standards. |
| § 63.9(g)(3) | Notification that criterion for alternative to RATA is exceeded | Yes | If alternative is in use. |
| | | Except that § 63.9(g) only applies as specified in § 63.6645. | |
| § 63.9(h)(1)-(6) | Notification of compliance status | Yes | Except that notifications for sources using a CEMS are due 30 days after completion of performance evaluations. § 63.9(h)(4) is reserved. |
| | | | Except that § 63.9(h) only applies as specified in § 63.6645. |
| § 63.9(i) | Adjustment of submittal deadlines | Yes. | |
| § 63.9(j) | Change in previous information | Yes. | |
| § 63.10(a) | Administrative provisions for recordkeeping/reporting | Yes. | |
| § 63.10(b)(1) | Record retention | Yes | Except that the most recent 2 years of data do not have to be retained on site. |
| § 63.10(b)(2)(i)-(v) | Records related to SSM | No. | |
| § 63.10(b)(2)(vi)- (xi) | Records | Yes. | |
| § 63.10(b)(2)(xii) | Record when under waiver | Yes. | |
| § 63.10(b)(2)(xiii) | Records when using alternative to RATA | Yes | For CO standard if using RATA alternative. |

Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright

| General provisions citation | Subject of citation | Applies to subpart | Explanation |
|-----------------------------------|---|--------------------|--|
| § 63.10(b)(2)(xiv) | Records of supporting documentation | Yes. | |
| § 63.10(b)(3) | Records of applicability determination | Yes. | |
| § 63.10(c) | Additional records for sources using CEMS | Yes | Except that § 63.10(c)(2)-(4) and (9) are reserved. |
| § 63.10(d)(1) | General reporting requirements | Yes. | |
| § 63.10(d)(2) | Report of performance test results | Yes. | |
| § 63.10(d)(3) | Reporting opacity or VE observations | No | Subpart ZZZZ does not contain opacity or VE standards. |
| § 63.10(d)(4) | Progress reports | Yes. | |
| § 63.10(d)(5) | Startup, shutdown, and malfunction reports | No. | |
| § 63.10(e)(1) and (2)(i) | Additional CMS Reports | Yes. | |
| § 63.10(e)(2)(ii) | COMS-related report | No | Subpart ZZZZ does not require COMS. |
| § 63.10(e)(3) | Excess emission and parameter exceedances reports | Yes. | Except that § 63.10(e)(3)(i) (C) is reserved. |
| § 63.10(e)(4) | Reporting COMS data | No | Subpart ZZZZ does not require COMS. |
| § 63.10(f) | Waiver for recordkeeping/reporting | Yes. | |
| § 63.11 | Flares | No. | |
| § 63.12 | State authority and delegations | Yes. | |
| § 63.13 | Addresses | Yes. | |
| § 63.14 | Incorporation by reference | Yes. | |
| § 63.15 | Availability of information | Yes. | |

[75 FR 9688, Mar. 3, 2010, as amended at 78 FR 6720, Jan. 30, 2013]

Page 70 of 78 Attachment A for Permit: M097-32467-00637

Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright

Appendix A—Protocol for Using an Electrochemical Analyzer to Determine Oxygen and Carbon Monoxide Concentrations From Certain Engines

1.0 Scope and Application. What is this Protocol?

This protocol is a procedure for using portable electrochemical (EC) cells for measuring carbon monoxide (CO) and oxygen (O_2) concentrations in controlled and uncontrolled emissions from existing stationary 4-stroke lean burn and 4-stroke rich burn reciprocating internal combustion engines as specified in the applicable rule.

1.1 Analytes. What does this protocol determine?

This protocol measures the engine exhaust gas concentrations of carbon monoxide (CO) and oxygen (O_2) .

| Analyte | CAS No. | Sensitivity |
|--------------------------|---------------|--|
| Carbon monoxide (CO) | | Minimum detectable limit should be 2 percent of the nominal range or 1 ppm, whichever is less restrictive. |
| Oxygen (O ₂) | 7782- 44-7 | |

1.2 Applicability. When is this protocol acceptable?

This protocol is applicable to 40 CFR part 63, subpart ZZZZ. Because of inherent cross sensitivities of EC cells, you must not apply this protocol to other emissions sources without specific instruction to that effect.

1.3 Data Quality Objectives. How good must my collected data be?

Refer to Section 13 to verify and document acceptable analyzer performance.

1.4 Range. What is the targeted analytical range for this protocol?

The measurement system and EC cell design(s) conforming to this protocol will determine the analytical range for each gas component. The nominal ranges are defined by choosing up-scale calibration gas concentrations near the maximum anticipated flue gas concentrations for CO and O_2 , or no more than twice the permitted CO level.

1.5 Sensitivity. What minimum detectable limit will this protocol yield for a particular gas component?

The minimum detectable limit depends on the nominal range and resolution of the specific EC cell used, and the signal to noise ratio of the measurement system. The minimum detectable limit should be 2 percent of the nominal range or 1 ppm, whichever is less restrictive.

2.0 SUMMARY OF PROTOCOL

In this protocol, a gas sample is extracted from an engine exhaust system and then conveyed to a portable EC analyzer for measurement of CO and O_2 gas concentrations. This method provides measurement system performance specifications and sampling protocols to ensure reliable data. You may use additions to, or modifications of vendor supplied measurement systems (e.g., heated or unheated sample lines, thermocouples, flow meters, selective gas scrubbers, etc.) to meet the design

Harlan Bakeries - GT, LLC Page 71 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

specifications of this protocol. Do not make changes to the measurement system from the as-verified configuration (Section 3.12).

3.0 DEFINITIONS

- 3.1 Measurement System. The total equipment required for the measurement of CO and O₂ concentrations. The measurement system consists of the following major subsystems:
- 3.1.1 Data Recorder. A strip chart recorder, computer or digital recorder for logging measurement data from the analyzer output. You may record measurement data from the digital data display manually or electronically.
- 3.1.2 Electrochemical (EC) Cell. A device, similar to a fuel cell, used to sense the presence of a specific analyte and generate an electrical current output proportional to the analyte concentration.
- 3.1.3 Interference Gas Scrubber. A device used to remove or neutralize chemical compounds that may interfere with the selective operation of an EC cell.
- 3.1.4 Moisture Removal System. Any device used to reduce the concentration of moisture in the sample stream so as to protect the EC cells from the damaging effects of condensation and to minimize errors in measurements caused by the scrubbing of soluble gases.
- 3.1.5 Sample Interface. The portion of the system used for one or more of the following: sample acquisition; sample transport; sample conditioning or protection of the EC cell from any degrading effects of the engine exhaust effluent; removal of particulate matter and condensed moisture.
- 3.2 Nominal Range. The range of analyte concentrations over which each EC cell is operated (normally 25 percent to 150 percent of up-scale calibration gas value). Several nominal ranges can be used for any given cell so long as the calibration and repeatability checks for that range remain within specifications.
- 3.3 Calibration Gas. A vendor certified concentration of a specific analyte in an appropriate balance gas.
- 3.4 Zero Calibration Error. The analyte concentration output exhibited by the EC cell in response to zero-level calibration gas.
- 3.5 *Up-Scale Calibration Error.* The mean of the difference between the analyte concentration exhibited by the EC cell and the certified concentration of the up-scale calibration gas.
- 3.6 Interference Check. A procedure for quantifying analytical interference from components in the engine exhaust gas other than the targeted analytes.
- 3.7 Repeatability Check. A protocol for demonstrating that an EC cell operated over a given nominal analyte concentration range provides a stable and consistent response and is not significantly affected by repeated exposure to that gas.
- 3.8 Sample Flow Rate. The flow rate of the gas sample as it passes through the EC cell. In some situations, EC cells can experience drift with changes in flow rate. The flow rate must be monitored and documented during all phases of a sampling run.
- 3.9 Sampling Run. A timed three-phase event whereby an EC cell's response rises and plateaus in a sample conditioning phase, remains relatively constant during a measurement data phase, then declines during a refresh phase. The sample conditioning phase exposes the EC cell to the gas sample for a length of time sufficient to reach a constant response. The measurement data phase is the time interval

Harlan Bakeries - GT, LLC Page 72 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

during which gas sample measurements can be made that meet the acceptance criteria of this protocol. The refresh phase then purges the EC cells with CO-free air. The refresh phase replenishes requisite O_2 and moisture in the electrolyte reserve and provides a mechanism to de-gas or desorb any interference gas scrubbers or filters so as to enable a stable CO EC cell response. There are four primary types of sampling runs: pre- sampling calibrations; stack gas sampling; post-sampling calibration checks; and measurement system repeatability checks. Stack gas sampling runs can be chained together for extended evaluations, providing all other procedural specifications are met.

- 3.10 Sampling Day. A time not to exceed twelve hours from the time of the pre-sampling calibration to the post-sampling calibration check. During this time, stack gas sampling runs can be repeated without repeated recalibrations, providing all other sampling specifications have been met.
- 3.11 Pre-Sampling Calibration/Post-Sampling Calibration Check. The protocols executed at the beginning and end of each sampling day to bracket measurement readings with controlled performance checks.
- 3.12 Performance-Established Configuration. The EC cell and sampling system configuration that existed at the time that it initially met the performance requirements of this protocol.
- 4.0 INTERFERENCES.

When present in sufficient concentrations, NO and NO₂ are two gas species that have been reported to interfere with CO concentration measurements. In the likelihood of this occurrence, it is the protocol user's responsibility to employ and properly maintain an appropriate CO EC cell filter or scrubber for removal of these gases, as described in Section 6.2.12.

- 5.0 SAFETY. [RESERVED]
- 6.0 EQUIPMENT AND SUPPLIES.
- 6.1 What equipment do I need for the measurement system?

The system must maintain the gas sample at conditions that will prevent moisture condensation in the sample transport lines, both before and as the sample gas contacts the EC cells. The essential components of the measurement system are described below.

- 6.2 Measurement System Components.
- *6.2.1 Sample Probe.* A single extraction-point probe constructed of glass, stainless steel or other non-reactive material, and of length sufficient to reach any designated sampling point. The sample probe must be designed to prevent plugging due to condensation or particulate matter.
- 6.2.2 Sample Line. Non-reactive tubing to transport the effluent from the sample probe to the EC cell.
- 6.2.3 Calibration Assembly (optional). A three-way valve assembly or equivalent to introduce calibration gases at ambient pressure at the exit end of the sample probe during calibration checks. The assembly must be designed such that only stack gas or calibration gas flows in the sample line and all gases flow through any gas path filters.
- 6.2.4 Particulate Filter (optional). Filters before the inlet of the EC cell to prevent accumulation of particulate material in the measurement system and extend the useful life of the components. All filters must be fabricated of materials that are non-reactive to the gas mixtures being sampled.

Harlan Bakeries - GT, LLC Page 73 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

6.2.5 Sample Pump. A leak-free pump to provide undiluted sample gas to the system at a flow rate sufficient to minimize the response time of the measurement system. If located upstream of the EC cells, the pump must be constructed of a material that is non-reactive to the gas mixtures being sampled.

- 6.2.8 Sample Flow Rate Monitoring. An adjustable rotameter or equivalent device used to adjust and maintain the sample flow rate through the analyzer as prescribed.
- 6.2.9 Sample Gas Manifold (optional). A manifold to divert a portion of the sample gas stream to the analyzer and the remainder to a by-pass discharge vent. The sample gas manifold may also include provisions for introducing calibration gases directly to the analyzer. The manifold must be constructed of a material that is non-reactive to the gas mixtures being sampled.
- 6.2.10 EC cell. A device containing one or more EC cells to determine the CO and O₂ concentrations in the sample gas stream. The EC cell(s) must meet the applicable performance specifications of Section 13 of this protocol.
- 6.2.11 Data Recorder. A strip chart recorder, computer or digital recorder to make a record of analyzer output data. The data recorder resolution (i.e., readability) must be no greater than 1 ppm for CO; 0.1 percent for O_2 ; and one degree (either °C or °F) for temperature. Alternatively, you may use a digital or analog meter having the same resolution to observe and manually record the analyzer responses.
- 6.2.12 Interference Gas Filter or Scrubber. A device to remove interfering compounds upstream of the CO EC cell. Specific interference gas filters or scrubbers used in the performance-established configuration of the analyzer must continue to be used. Such a filter or scrubber must have a means to determine when the removal agent is exhausted. Periodically replace or replenish it in accordance with the manufacturer's recommendations.
- 7.0 REAGENTS AND STANDARDS. WHAT CALIBRATION GASES ARE NEEDED?
- 7.1 Calibration Gases. CO calibration gases for the EC cell must be CO in nitrogen or CO in a mixture of nitrogen and O_2 . Use CO calibration gases with labeled concentration values certified by the manufacturer to be within \pm 5 percent of the label value. Dry ambient air (20.9 percent O_2) is acceptable for calibration of the O_2 cell. If needed, any lower percentage O_2 calibration gas must be a mixture of O_2 in nitrogen.
- 7.1.1 Up-Scale CO Calibration Gas Concentration. Choose one or more up-scale gas concentrations such that the average of the stack gas measurements for each stack gas sampling run are between 25 and 150 percent of those concentrations. Alternatively, choose an up-scale gas that does not exceed twice the concentration of the applicable outlet standard. If a measured gas value exceeds 150 percent of the up-scale CO calibration gas value at any time during the stack gas sampling run, the run must be discarded and repeated.
- 7.1.2 Up-Scale O₂ Calibration Gas Concentration.

Select an O_2 gas concentration such that the difference between the gas concentration and the average stack gas measurement or reading for each sample run is less than 15 percent O_2 . When the average exhaust gas O_2 readings are above 6 percent, you may use dry ambient air (20.9 percent O_2) for the upscale O_2 calibration gas.

7.1.3 Zero Gas. Use an inert gas that contains less than 0.25 percent of the up-scale CO calibration gas concentration. You may use dry air that is free from ambient CO and other combustion gas products (e.g., CO_2).

Harlan Bakeries - GT, LLC Page 74 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

8.0 SAMPLE COLLECTION AND ANALYSIS

- 8.1 Selection of Sampling Sites.
- 8.1.1 Control Device Inlet. Select a sampling site sufficiently downstream of the engine so that the combustion gases should be well mixed. Use a single sampling extraction point near the center of the duct (e.g., within the 10 percent centroidal area), unless instructed otherwise.
- 8.1.2 Exhaust Gas Outlet. Select a sampling site located at least two stack diameters downstream of any disturbance (e.g., turbocharger exhaust, crossover junction or recirculation take-off) and at least one-half stack diameter upstream of the gas discharge to the atmosphere. Use a single sampling extraction point near the center of the duct (e.g., within the 10 percent centroidal area), unless instructed otherwise.
- 8.2 Stack Gas Collection and Analysis. Prior to the first stack gas sampling run, conduct that the presampling calibration in accordance with Section 10.1. Use Figure 1 to record all data. Zero the analyzer with zero gas. Confirm and record that the scrubber media color is correct and not exhausted. Then position the probe at the sampling point and begin the sampling run at the same flow rate used during the up-scale calibration. Record the start time. Record all EC cell output responses and the flow rate during the "sample conditioning phase" once per minute until constant readings are obtained. Then begin the "measurement data phase" and record readings every 15 seconds for at least two minutes (or eight readings), or as otherwise required to achieve two continuous minutes of data that meet the specification given in Section 13.1. Finally, perform the "refresh phase" by introducing dry air, free from CO and other combustion gases, until several minute-to-minute readings of consistent value have been obtained. For each run use the "measurement data phase" readings to calculate the average stack gas CO and O₂ concentrations.
- $8.3\ EC\ Cell\ Rate$. Maintain the EC cell sample flow rate so that it does not vary by more than \pm 10 percent throughout the pre-sampling calibration, stack gas sampling and post-sampling calibration check. Alternatively, the EC cell sample flow rate can be maintained within a tolerance range that does not affect the gas concentration readings by more than \pm 3 percent, as instructed by the EC cell manufacturer.
- 9.0 QUALITY CONTROL (RESERVED)

10.0 CALIBRATION AND STANDARDIZATION

- 10.1 Pre-Sampling Calibration. Conduct the following protocol once for each nominal range to be used on each EC cell before performing a stack gas sampling run on each field sampling day. Repeat the calibration if you replace an EC cell before completing all of the sampling runs. There is no prescribed order for calibration of the EC cells; however, each cell must complete the measurement data phase during calibration. Assemble the measurement system by following the manufacturer's recommended protocols including for preparing and preconditioning the EC cell. Assure the measurement system has no leaks and verify the gas scrubbing agent is not depleted. Use Figure 1 to record all data.
- 10.1.1 Zero Calibration. For both the O_2 and CO cells, introduce zero gas to the measurement system (e.g., at the calibration assembly) and record the concentration reading every minute until readings are constant for at least two consecutive minutes. Include the time and sample flow rate. Repeat the steps in this section at least once to verify the zero calibration for each component gas.
- 10.1.2 Zero Calibration Tolerance. For each zero gas introduction, the zero level output must be less than or equal to \pm 3 percent of the up-scale gas value or \pm 1 ppm, whichever is less restrictive, for the CO channel and less than or equal to \pm 0.3 percent O₂ for the O₂ channel.

Harlan Bakeries - GT, LLC Page 75 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

10.1.3 Up-Scale Calibration. Individually introduce each calibration gas to the measurement system (e.g., at the calibration assembly) and record the start time. Record all EC cell output responses and the flow rate during this "sample conditioning phase" once per minute until readings are constant for at least two minutes. Then begin the "measurement data phase" and record readings every 15 seconds for a total of two minutes, or as otherwise required. Finally, perform the "refresh phase" by introducing dry air, free from CO and other combustion gases, until readings are constant for at least two consecutive minutes. Then repeat the steps in this section at least once to verify the calibration for each component gas. Introduce all gases to flow through the entire sample handling system (i.e., at the exit end of the sampling probe or the calibration assembly).

- 10.1.4 Up-Scale Calibration Error. The mean of the difference of the "measurement data phase" readings from the reported standard gas value must be less than or equal to \pm 5 percent or \pm 1 ppm for CO or \pm 0.5 percent O_2 , whichever is less restrictive, respectively. The maximum allowable deviation from the mean measured value of any single "measurement data phase" reading must be less than or equal to \pm 2 percent or \pm 1 ppm for CO or \pm 0.5 percent O_2 , whichever is less restrictive, respectively.
- 10.2 Post-Sampling Calibration Check. Conduct a stack gas post-sampling calibration check after the stack gas sampling run or set of runs and within 12 hours of the initial calibration. Conduct up-scale and zero calibration checks using the protocol in Section 10.1. Make no changes to the sampling system or EC cell calibration until all post-sampling calibration checks have been recorded. If either the zero or up-scale calibration error exceeds the respective specification in Sections 10.1.2 and 10.1.4 then all measurement data collected since the previous successful calibrations are invalid and re-calibration and re-sampling are required. If the sampling system is disassembled or the EC cell calibration is adjusted, repeat the calibration check before conducting the next analyzer sampling run.

11.0 ANALYTICAL PROCEDURE

The analytical procedure is fully discussed in Section 8.

12.0 CALCULATIONS AND DATA ANALYSIS

Determine the CO and O_2 concentrations for each stack gas sampling run by calculating the mean gas concentrations of the data recorded during the "measurement data phase".

13.0 PROTOCOL PERFORMANCE

Use the following protocols to verify consistent analyzer performance during each field sampling day.

13.1 Measurement Data Phase Performance Check. Calculate the mean of the readings from the "measurement data phase". The maximum allowable deviation from the mean for each of the individual readings is \pm 2 percent, or \pm 1 ppm, whichever is less restrictive. Record the mean value and maximum deviation for each gas monitored. Data must conform to Section 10.1.4. The EC cell flow rate must conform to the specification in Section 8.3.

Example: A measurement data phase is invalid if the maximum deviation of any single reading comprising that mean is greater than \pm 2 percent or \pm 1 ppm (the default criteria). For example, if the mean = 30 ppm, single readings of below 29 ppm and above 31 ppm are disallowed).

13.2 Interference Check. Before the initial use of the EC cell and interference gas scrubber in the field, and semi-annually thereafter, challenge the interference gas scrubber with NO and NO₂ gas standards that are generally recognized as representative of diesel-fueled engine NO and NO₂ emission values. Record the responses displayed by the CO EC cell and other pertinent data on Figure 1 or a similar form.

Harlan Bakeries - GT, LLC Page 76 of 78 Indianapolis, Indiana Attachment A for Permit: M097-32467-00637

Permit Reviewer: Brian Wright

13.2.1 Interference Response. The combined NO and NO_2 interference response should be less than or equal to \pm 5 percent of the up-scale CO calibration gas concentration.

- 13.3 Repeatability Check. Conduct the following check once for each nominal range that is to be used on the CO EC cell within 5 days prior to each field sampling program. If a field sampling program lasts longer than 5 days, repeat this check every 5 days. Immediately repeat the check if the EC cell is replaced or if the EC cell is exposed to gas concentrations greater than 150 percent of the highest up-scale gas concentration.
- 13.3.1 Repeatability Check Procedure. Perform a complete EC cell sampling run (all three phases) by introducing the CO calibration gas to the measurement system and record the response. Follow Section 10.1.3. Use Figure 1 to record all data. Repeat the run three times for a total of four complete runs. During the four repeatability check runs, do not adjust the system except where necessary to achieve the correct calibration gas flow rate at the analyzer.
- 13.3.2 Repeatability Check Calculations. Determine the highest and lowest average "measurement data phase" CO concentrations from the four repeatability check runs and record the results on Figure 1 or a similar form. The absolute value of the difference between the maximum and minimum average values recorded must not vary more than \pm 3 percent or \pm 1 ppm of the up-scale gas value, whichever is less restrictive.
- 14.0 Pollution Prevention (Reserved)
- 15.0 WASTE MANAGEMENT (RESERVED)
- 16.0 ALTERNATIVE PROCEDURES (RESERVED)
- 17.0 REFERENCES
- (1) "Development of an Electrochemical Cell Emission Analyzer Test Protocol", Topical Report, Phil Juneau, Emission Monitoring, Inc., July 1997.
- (2) "Determination of Nitrogen Oxides, Carbon Monoxide, and Oxygen Emissions from Natural Gas-Fired Engines, Boilers, and Process Heaters Using Portable Analyzers", EMC Conditional Test Protocol 30 (CTM-30), Gas Research Institute Protocol GRI-96/0008, Revision 7, October 13, 1997.
- (3) "ICAC Test Protocol for Periodic Monitoring", EMC Conditional Test Protocol 34 (CTM-034), The Institute of Clean Air Companies, September 8, 1999.
- (4) "Code of Federal Regulations", Protection of Environment, 40 CFR, Part 60, Appendix A, Methods 1-4; 10.

Table 1: Appendix A—Sampling Run Data.

| Facility | Engine I.D | Date_ | | |
|-----------|------------------------|------------------|------------------------|---------------------|
| Run Type: | (_) | (_) | (_) | (_) |
| (X) | Pre-Sample Calibration | Stack Gas Sample | Post-Sample Cal. Check | Repeatability Check |

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|---------------------------|----------------|----|----------------|----|----------------|----|----------------|----|------|-----------|------------|
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| Run # | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | Time | Scrub. OK | Flow- Rate |
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Harlan Bakeries - GT, LLC Indianapolis, Indiana Permit Reviewer: Brian Wright

Page 78 of 78 Attachment A for Permit: M097-32467-00637

[78 FR 6721, Jan. 30, 2013]

Indiana Department of Environmental Management

Office of Air Quality

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

Source Background and Description

Source Name: Harlan Bakeries - GT. LLC

Source Location: 7575 Georgetown Road, Indianapolis, Indiana 46268

County: Marion

SIC Code: 2051 (Bread, Cake, and Related Products)

Permit Renewal No.: M097-32467-00637
Permit Reviewer: Brian Wright

The Office of Air Quality (OAQ) has reviewed the operating permit renewal application from Harlan Bakeries - GT, LLC relating to the operation of a stationary bakery. On October 30, 2012, Harlan Bakeries - GT, LLC submitted an application to the OAQ requesting to renew its operating permit. Harlan Bakeries - GT, LLC was issued a MSP M097-25734-00637 on February 27, 2008.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units:

- (a) One (1) Bagel Line, including one (1) Natural Gas-fired Bagel Oven, identified as OVEN-1003, with other ancillary baking equipment, constructed in 2008, equipped with three (3) heat zones, with a maximum heat input capacity of 5.25 MMBtu/hr, having a maximum throughput capacity of 1.56 tons of baked product per hour, and exhausting to three (3) stacks, identified as OVEN-1003-N, OVEN-1003-C, and OVEN-1003-S.
- (b) One (1) Raw Material Area, constructed in June 2004, including:
 - (1) Two (2) flour storage silos identified as Emission Unit S-1 and S-2, each with a capacity of 100,000 lb of flour and a maximum throughput capacity of 45,000 lb/hr of flour, each controlled by an integral bin vent cartridge filter;
 - (2) A day bin with a throughput capacity of 90,000 lb/hr controlled by an integral bin vent cartridge filter;
 - (3) A dough mixing operation controlled by a pulse jet baghouse.
- (c) Two (2) Natural Gas-fired Steam Boilers, identified as BOILER-S-1000 and BOILER-S-1001, constructed in 2004 and 2008, respectively, with a maximum heat input capacity of 6.3 MMBtu/hr each, and exhausting to Stack BOILER-S-1000 and Stack BOILER-S-1001, respectively.
- (d) Various natural gas-fired combustion units, with heat input equal to or less than ten million (10,000,000) Btu per hour, including:
 - (1) Three (3) pan washers:

Page 2 of 13 TSD for M097-32467-00637

Source Name: Harlan Bakeries- GT, LLC Indianapolis, Indiana

Permit Reviewer: Brian Wright

- (i) One (1) pan washer, identified as WASHER-0205, constructed in 2006, with a maximum capacity of 0.15 MMBtu/hr, and exhausted to Stack WASHER-0205-E and Stack WASHER-0205-W.
- (ii) One (1) rack washer, identified as WASHER-0200, constructed in 2008, with a maximum capacity of 0.5 MMBtu/hr, and exhausting to Stack WASHER-0200.
- (iii) One (1) tote washer, identified as WASHER-1011, constructed in 2008, with a maximum capacity of 1.0 MMBtu/hr, and exhausted to Stack WASHER-1011-N, Stack WASHER-1011-N-C, WASHER-1011-S-C, and WASHER-1011-S.

(2) HVAC and Heater units:

- (i) Eleven (11) HVAC units constructed in 2004, with a total heat input capacity of 2.17 MMBtu/hr.
- (ii) Twenty (20) HVAC units constructed in 2008, with a total heat input of 3.43 MMBtu/hr.
- (iii) One (1) HVAC unit constructed in 2010, with a total heat input capacity of 0.036 MMBtu/hr.
- (iv) Three (3) heaters constructed in 2011, with a total heat input capacity of 0.09 MMBtu/hr.
- (v) Fifteen (15) HVAC units constructed in 2011, with a total heat input capacity of 9.26 MMBtu/hr.
- (vi) Three (3) HVAC units constructed in 2012, with a total heat input capacity of 0.54 MMBtu/hr.
- (3) One (1) Loaf Cake Oven, identified as OVEN-1000, with a heat input capacity of 3.094 MMBtu/hr, constructed in June 2004, and exhausted to Stack OVEN-1000-E. Stack OVEN-1000-C. and Stack OVEN-1000-W.
- (4) One (1) Pie Oven, identified as OVEN-1002, with a maximum heat input capacity of 8.40 MMBtu/hr, constructed in June 2004, and exhausting to Stack OVEN-1002-E, Stack OVEN-1002-E-C, Stack OVEN-1002-W-C, and Stack OVEN-1002-W.
- (5) One (1) R&D baking oven, identified as OVEN-R-1000, constructed in June 2004, with a maximum heat input capacity of 0.343 MMBtu/hr, and exhausting to Stack OVEN-R-1000.
- (6) One (1) granola and cookie oven, identified as OVEN-R-1004, constructed in 2007, with maximum heat input capacities of 0.343 MMBtu/hr, exhausting to stacks OVEN-1104-N and OVEN-1004-S.
- (7) One (1) granola and cookie oven, identified as OVEN-R-1005, constructed in 2007, with a maximum heat input capacity of 0.343 MMBtu/hr, exhausting to stacks OVEN-1105-N and OVEN-1005-S.
- (8) One (1) granola and cookie oven, identified as OVEN-R-1006, constructed in 2007, with a maximum heat input capacity of 0.343 MMBtu/hr, exhausting to stacks OVEN-1106-N and OVEN-1006-S.

Source Name: Harlan Bakeries- GT, LLC Page 3 of 13 Indianapolis, Indiana TSD for M097-32467-00637

Permit Reviewer: Brian Wright

(9) One (1) granola and cookie oven, identified as OVEN-R-1007, constructed in 2011, with a maximum heat input capacity of 0.343 MMBtu/hr, exhausting to stacks OVEN-1107-N and OVEN-1007-S.

- (10) One (1) granola and cookie oven, identified as OVEN-R-1008, constructed in 2011, with a maximum heat input capacity of 0.343 MMBtu/hr, exhausting to stacks OVEN-1108-N and OVEN-1008-S.
- (11) One (1) natural gas-fired double rack oven, identified as OVEN-1009, constructed in 2012, with a heat input capacity of 0.343 MMBtu/hr, and exhausting to stacks OVEN-R-1009-N and OVEN-R-1009-S.
- (12) One (1) natural gas-fired double rack oven, identified as OVEN-1010, constructed in 2012, with a heat input capacity of 0.343 MMBtu/hr, and exhausting to stacks OVEN-R-1010-N and OVEN-R-1010-S.
- (13) One (1) natural gas-fired tote washer, identified as WASHER-1001, constructed in 2012, with a heat input capacity of 0.695 MMBtu/hr, exhausting to Stack WASHER-1001.
- (14) One (1) natural gas-fired boiler, identified as BOILER-1001, constructed in 2012, with a heat input capacity of 2.50 MMBtu/hr, and exhausting to Stack BOILER-1001.
- (15) One (1) natural gas-fired boiler, identified as BOILER-1002, constructed in 2012, with a heat input capacity of 2.50 MMBtu/hr, and exhausting to Stack BOILER-1002.
- (16) One (1) natural gas-fired oven, identified as OVEN-1101, constructed in 2012, with a heat input capacity of 4.50 MMBtu/hr, exhausting to stacks OVEN-1101-N, OVEN-1101-C, and OVEN-1101-S.
- (17) One (1) natural gas-fired oven, identified as OVEN-1102, constructed in 2012, with a heat input capacity of 4.50 MMBtu/hr, exhausting to stacks OVEN-1102-N, OVEN-1102-C, and OVEN-1102-S.
- (18) One (1) natural gas-fired oven, identified as OVEN-1103, constructed in 2012, with a heat input capacity of 4.50 MMBtu/hr, exhausting to stacks OVEN-1103-N, OVEN-1103-C, and OVEN-1103-S.
- (e) One (1) 60 kW natural gas Emergency Generator, identified as Emission Unit EG-1, constructed in June 2004, with a maximum rated capacity of 0.789 MMBtu/hr.
 - Under the NESHAP for Stationary Reciprocating Internal Combustion Engines (40 CFR 63, Subpart ZZZZ), EG-1 is considered an affected facility.
- (f) Degreasing operations that do not exceed 145 gallons per 12 months, constructed in June 2004, and equipped with a remote solvent reservoir. [326 IAC 8-3-2]
- (g) Twelve (12) inkjet printers, constructed in 2004, with a maximum of seven (7) printers used on the lines at one time, for printing date stamp and recall code on packaging, with 147 gallons of ink used annually. The five (5) extra printers are available for rotation for preventive maintenance or repair purposes.

Indianapolis, Indiana Permit Reviewer: Brian Wright

Existing Approvals

Since the issuance of the MSOP M097-25734-00637 on February 27, 2008, the source has constructed or has been operating under the following additional approvals:

- (a) Notice-Only Change No. 097-27327-00637 issued on January 22, 2009; and
- (b) Minor Permit Revision No. 097-31455-00637 issued on June 26, 2012.

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.

Air Pollution Control Justification as an Integral Part of the Process

The following integral determination was made for MSOP No. M097-25734-00637:

The company has submitted the following justification such that the bin vent cartridge filters be considered as an integral part of the flour silo/pneumatic conveyance process.

The pneumatic flour conveying system used at the Kyger Bakery Products facility moves this basic raw material from the delivery vehicles (rail and truck) to the two storage silos and from these silos to the day-silo (day-bin) serving the bagel line at the plant. Compressed air is used to fluidize the flour and convey it through piping to the silos. Since the air stream used for the conveying system is heavily laden with flour (estimated to be from 1 to 2 percent), if an efficient air/solids separator were not installed, the flour would be released to the ambient air. Since the bagel line will use approximately 7000 tons of flour per year and moves this raw material at least twice, it would likely release from 140 to 280 tons of flour to the environment. In addition to the unacceptable environmental damage, the financial loss would be from \$200 to \$250 per ton or well over \$30,000 per year. The cost of each bin vent cartridge filtration system is approximately \$30,000 with an annual operating cost of less than \$1,000 for an annualized cost of approximately \$4,000 to \$5,000. The total annual cost for all three pneumatic air separation units (bin vents) is therefore approximately \$15,000.

As part of MSOP No. M097-25734-00637, IDEM, OAQ, and OES, evaluated the justification and agreed that the bin vent filters were considered as an integral part of the flour silo/pneumatic conveyance process. Therefore, the permitting level was determined using the potential to emit after the filtration. Operating conditions in the proposed permit specify that the bin vent filters shall operate at all times when the flour silo/pneumatic conveyance system is in operation.

Enforcement Issue

There are no enforcement actions pending.

Emission Calculations

See Appendix A of this document for detailed emission calculations.

Page 5 of 13 TSD for M097-32467-00637

Source Name: Harlan Bakeries- GT, LLC

Indianapolis, Indiana

Permit Reviewer: Brian Wright

County Attainment Status

The source is located in Marion County

| Pollutant | Designation |
|------------------|--|
| SO ₂ | Better than national standards. |
| СО | Attainment effective February 18, 2000, for the part of the city of Indianapolis bounded by 11 th Street on the north; Capitol Avenue on the west; Georgia Street on the south; and Delaware Street on the east. Unclassifiable or attainment effective November 15, 1990, for the remainder of Indianapolis and Marion County. |
| O ₃ | Attainment effective November 8, 2007, for the 8-hour ozone standard. ¹ |
| PM ₁₀ | Unclassifiable effective November 15, 1990. |
| NO ₂ | Cannot be classified or better than national standards. |
| Pb | Attainment effective July 10, 2000, for the part of Franklin Township bounded by Thompson Road on the south; Emerson Avenue on the west; Five Points Road on the east; and Troy Avenue on the north. Attainment effective July 10, 2000, for the part of Wayne Township bounded by Rockville Road on the north; Girls School Road on the east; Washington Street on the south; and Bridgeport Road on the west. The remainder of the county is not designated. |

¹Attainment effective October 18, 2000, for the 1-hour ozone standard for the Indianapolis area, including Marion County, and is a maintenance area for the 1-hour ozone National Ambient Air Quality Standards (NAAQS) for purposes of 40 CFR 51, Subpart X*. The 1-hour designation was revoked effective June 15, 2005. Basic nonattainment designation effective federally April 5, 2005, for PM2.5.

(a) Ozone Standards

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

(b) $PM_{2.5}$

Marion County has been classified as nonattainment for PM2.5 in 70 FR 943 dated January 5, 2005. On May 8, 2008, U.S. EPA promulgated specific New Source Review rules for PM $_{2.5}$ emissions. These rules became effective on July 15, 2008. Therefore, direct PM $_{2.5}$, SO $_{2}$, and NO $_{x}$ emissions were reviewed pursuant to the requirements of Nonattainment New Source Review, 326 IAC 2-1.1-5. See the State Rule Applicability – Entire Source section.

(c) Other Criteria Pollutants

Marion County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

- (a) The fugitive emissions of criteria pollutants and hazardous air pollutants are counted toward the determination of 326 IAC 2-6.1 (Minor Source Operating Permits) applicability.
- (b) Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7, and there is no applicable New Source Performance

Page 6 of 13 TSD for M097-32467-00637

Source Name: Harlan Bakeries- GT, LLC

Indianapolis, Indiana

Permit Reviewer: Brian Wright

Standard 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.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions (after integral controls) of the source.

| Unrestricted | Potential Emissions | | | | | |
|-------------------|---------------------|--|--|--|--|--|
| Pollutant | Tons/year | | | | | |
| PM | 36.42 | | | | | |
| PM ₁₀ | 35.49 | | | | | |
| PM _{2.5} | 35.49 | | | | | |
| SO ₂ | 0.19 | | | | | |
| NO _x | 32.72 | | | | | |
| VOC | 30.26 | | | | | |
| СО | 27.85 | | | | | |
| GHGs as CO₂e | 39,000 | | | | | |
| Single HAP | 0.74 (Acetaldehyde) | | | | | |
| Total HAP | 1.35 | | | | | |

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of all regulated pollutants, excluding GHGs, is less than 100 tons per year. However, VOC and NOx are each greater than twenty-five (25) tons per year. The source is not subject to the provisions of 326 IAC 2-7. Therefore, the source will be issued an MSOP Renewal.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of GHGs is less than one hundred thousand (100,000) tons of CO₂ equivalent emissions (CO₂e) per year.
- (c) The potential to emit (as defined in 326 IAC 2-7-1(29)) 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(29)) of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, the source will be issued an MSOP Renewal.

Federal Rule Applicability

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.

New Source Performance Standards (NSPS)

(b) The requirements of the New Source Performance Standard (NSPS) for Fossil-Fuel-Fired Steam Generators for Which Construction Is Commenced After August 17, 1971 (40 CFR 60.40c, Subpart D) (326 IAC 12), NSPS for Electric Utility Steam Generating Units for Which Construction Is Commenced After September 18, 1978 (40 CFR 60.40c, Subpart Da) (326 IAC 12), NSPS for Industrial-Commercial-Institutional Steam Generating Units (which construction commenced after

Source Name: Harlan Bakeries- GT, LLC Page 7 of 13 Indianapolis, Indiana TSD for M097-32467-00637

Permit Reviewer: Brian Wright

June 19, 1984) (40 CFR 60.40c, Subpart Db) (326 IAC 12), and NSPS for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR 60.40, Subpart Dc) (326 IAC 12) are each not included in the permit, because each boiler is rated at less than ten (10) MMBtu per hour.

- (c) The requirements of the New Source Performance Standard (NSPS) for the Graphic Arts Industry: Publication Rotogravure Printing, 40 CFR 60, Subpart QQ (326 IAC 12), are not included in the permit, since the inkjet printers at this source are not rotogravure printing presses.
- (d) The requirements of the New Source Performance Standards for Pressure Sensitive Tape and Label Surface Coating Operations, 40 CFR 60, Subpart RR (60.440 to 60.447) (326 IAC 12), are not included in this permit, because this source does not manufacture pressure sensitive tape and label materials.
- (e) The requirements of the New Source Performance Standards (NSPS) for Flexible Vinyl and Urethane Coating and Printing Source, 40 CFR 60, Subpart FFF (326 IAC 12), are not included in the permit, since this source does not have any rotogravure printing presses used to print or coat flexible vinyl or urethane products.
- (f) The requirements of the New Source Performance Standards for Polymeric Coating of Supporting Substrates Facilities, 40 CFR 60, Subpart VVV (60.740 to 60.748) (326 IAC 12), are not included in this permit, because the source does not perform polymeric coating of supporting substrates, defined as web coating process that apply elastomers, polymers, or prepolymers to a supporting web other than paper, plastic film, metallic foil, or metal coil (40 CFR 60.741).
- (g) The requirements of the New Source Performance Standard for Stationary Compression Ignition Internal Combustion Engines, 40 CFR 60.4200, Subpart IIII (326 IAC 12), are not included in the permit for the one (1) natural gas-fired emergency generator, identified as EG-1, since it is not a compression ignition engine.
- (h The requirements of the New Source Performance Standard for Stationary Spark Ignition Internal Combustion Engines, 40 CFR 60.4230, Subpart JJJJ (326 IAC 12), are not included in the permit for the one (1) natural gas-fired emergency generator, identified as EG-1, since it was not constructed, modified, or reconstructed after the rule applicability date of June 12, 2006.
- (i) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included for this proposed revision.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (j) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Halogenated Solvent Cleaning, 40 CFR 63, Subpart T (326 IAC 20-6), are not included in this permit because because the solvent utilized at this source does not contain any of the halogenated compounds listed in 40 CFR 63.460(a).
- (k) The requirements for the National Emission Standards for Hazardous Air Pollutants for the Printing and Publishing Industry, 40 CFR 63, Subpart KK (326 IAC 20-18), are not included in this permit, because this source does not contain rotogravure or wide-web flexographic printing presses and this source is not a major source of HAPs.
- (I) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating, 40 CFR 63, Subpart JJJJ (326 IAC 20-65), are not included in the permit since this source is not a major source of HAPs.

Page 8 of 13 TSD for M097-32467-00637

Source Name: Harlan Bakeries- GT, LLC Indianapolis, Indiana

Permit Reviewer: Brian Wright

(m) The requirements of the National Emission Standards for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles, 40 CFR Part 63, Subpart OOOO (326 IAC 20-77), are not included in the permit because the source does not print, coat, or dye fabric or other textiles as defined in 40 CFR 63.4371 and is not a major source of HAPs.

(n) The one (1) natural gas-fired emergency generator, identified as EG-1, is subject the requirements of the 40 CFR 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (326 IAC 20-82), because it is considered a existing stationary reciprocating internal combustion engine (RICE) (construction commenced before June 12, 2006) at an area source of hazardous air pollutants (HAP). Construction of the one (1) natural gas-fired emergency generator, identified as EG-1, commenced prior to June 2004.

The one (1) natural gas-fired emergency generator, identified as EG-1, is subject to the following applicable portions of the NESHAP for existing emergency stationary RICE (construction commenced before June 12, 2006) at an area source of HAP:

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

Note: Existing emergency spark ignition (SI) stationary RICE located at an area source of HAP are not subject to numerical CO or formaldehyde emission limitations, but are only subject to work and management practices under Table 2d and Table 6.

The requirements of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the source except as otherwise specified in 40 CFR 63, Subpart ZZZZ.

- (o) The requirements of the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR 63, Subpart DDDDD (63.7480 through 63.7575) (326 IAC 20-95) are not included in the permit renewal, because this source is not a major source of HAPs.
- (p) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Industrial, Commercial, and Institutional Boilers Area Sources, 40 CFR 63.11193, Subpart JJJJJJ, are not included in the permit, since the boilers at this source are gas-fired boilers, as defined in 40 CFR 63.11237, and as such, are specifically listed as not being subject to Subpart JJJJJJ under 40 CFR 63.11195(e).

Source Name: Harlan Bakeries- GT, LLC Page 9 of 13 Indianapolis, Indiana TSD for M097-32467-00637

Permit Reviewer: Brian Wright

(q) There are no other National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included for this proposed revision.

State Rule Applicability - Entire Source

326 IAC 1-6-3 (Preventive Maintenance Plan)

The source is subject to 326 IAC 1-6-3.

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

MSOP applicability is discussed under the Permit Level Determination – MSOP section above.

326 IAC 2-2 (Prevention of Significant Deterioration(PSD))

This source is not a major stationary source, under PSD (326 IAC 2-2), because the potential to emit of all attainment regulated criteria pollutants are less than 250 tons per year, the potential to emit greenhouse gases (GHGs) is less than 100,000 tons of CO2e per year, and this source is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(ff)(1). Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

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

The potential to emit of any single HAP is less than ten (10) tons per year and the potential to emit 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 2-4.1.

326 IAC 2-6 (Emission Reporting)

Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is not located in Lake, Porter, or LaPorte County, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.

326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-1 (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.

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

The source is not subject to the requirements of 326 IAC 6-5, because the source does not have potential fugitive particulate emissions greater than 25 tons per year. Therefore, 326 IAC 6-5 does not apply.

326 IAC 6.5 PM Limitations Except Lake County

This source is not subject to 326 IAC 6.5 because, even though it is located in Marion County, its potential particulate emissions (after integral controls in the Raw Material Area) are less than 10 tons/year.

326 IAC 6.8 PM Limitations for Lake County

This source is not subject to 326 IAC 6.8 because it is not located in Lake county.

Source Name: Harlan Bakeries- GT, LLC Page 10 of 13 Indianapolis, Indiana TSD for M097-32467-00637

Permit Reviewer: Brian Wright

326 IAC 12 (New Source Performance Standards)

See Federal Rule Applicability Section of this TSD.

326 IAC 20 (Hazardous Air Pollutants)

See Federal Rule Applicability Section of this TSD.

State Rule Applicability - Individual Facilities

Bagel Oven + Bagel Line Ancillary Baking Equipment (Fermentation), Bagel Oven (Natural Gas)

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

Pursuant to 326 IAC 6-3-1(b)(14), the Bagel Oven and Bagel Line Ancillary Baking Equipment are not subject to 326 IAC 6-3 because they have the potential to emit less than 0.551 pounds per hour of particulate.

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

The unlimited VOC emissions from the Bagel Line, which consists of the Bagel Oven (OVEN-1003) and other ancillary baking equipment (including proof box), are greater than twenty-five (25) tons per year. However, the source shall limit the annual throughput of VOC emissions from the Bagel Line to less than twenty-five (25) tons per year. Therefore, the requirements of 326 IAC 8-1-6 do not apply.

In order to render the requirements of 326 IAC 8-1-6 not applicable, the Permittee shall comply with the following:

- (a) The total amount of baked products produced in the Bagel Line shall be less than 12,500 tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
- (b) VOC emissions from the Bagel Oven (OVEN-1003) shall not exceed 3.596 pounds per ton of baked product; and
- (c) VOC emissions from the Bagel Line Ancillary Baking Equipment shall not exceed 0.3596 pounds per ton of baked product.

Compliance with these limits shall limit the total VOC emissions from the Bagel Line to less than twenty five (25) tons per twelve (12) consecutive month period, and shall render the requirements of 326 IAC 8-1-6 (New Facilities: General Reduction Requirements) not applicable.

Raw Material Area

326 IAC 6.5 (PM Limitations Except Lake County)

The Raw Material Area is not subject to the requirements of 326 IAC 6.5 (PM Limitations Except Lake County), because even though it is located in Marion County, its potential particulate emissions (after integral controls in the Raw Material Area) are less than 10 tons/year.

In order to ensure that the source is exempt from the requirements of 326 IAC 6.5 (PM Limitations Except Lake County), the integral bin vent cartridge filters used for particulate control in the Raw Material Area shall be in operation and control emissions from the flour storage silos and day bin at all times when the storage silos and day bin are in operation.

Page 11 of 13 TSD for M097-32467-00637

Source Name: Harlan Bakeries- GT, LLC

Indianapolis, Indiana

Permit Reviewer: Brian Wright

Boilers

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

Pursuant to 326 IAC 6-2-4(a), particulate emissions from indirect heating facilities constructed after September 21, 1983, shall be limited using the following equation:

 $Pt = 1.09/Q^{0.26}$

where:

Pt = pounds of particulate matter (PM) emitted per MMBtu heat input

Q = total source maximum operating capacity rating in million British thermal units per hour (MMBtu/hr) heat input

For Q less than 10 MMBtu/hr, Pt shall not exceed 0.6.

| | Year | Q | Pt Limit |
|-----------------------------|-------------|--------------------------------|------------|
| Unit ID | Constructed | (MMBtu/hr) | (lb/MMBtu) |
| BOILER-S-1000 | 2004 | 6.3 | 0.60 |
| BOILER-S-1001 | 2008 | 6.3 + 6.3 = 12.6 | 0.56 |
| BOILER-1001, BOILER-1002 | 2012 | 6.3 + 6.3 + 2.50 + 2.50 = 17.6 | 0.52, 0.52 |

Based on the AP-42 Emission Factors, particulate emissions from each boiler are 0.0019 lb/MMBtu. Therefore, the source is able to comply with each of these limits without the use of a particulate control device.

326 IAC 7-1.1 Sulfur Dioxide Emission Limitations

The natural gas-fired boilers are each not subject to 326 IAC 326 IAC 7-1.1 since each unit has a potential to emit sulfur dioxide at a rate of less than 25 tons/year and 10 pounds/hour, respectively.

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

Each boiler is not subject to the requirements of 326 IAC 8-1-6, since the uncontrolled VOC potential emissions for VOC from each boiler is less than twenty-five (25) tons per year.

Natural Gas-Fired Heaters & Air Handling Units

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

The natural gas-fired heaters and air handling units are not subject to 326 IAC 6-2 since they are not sources of indirect heating.

326 IAC 7-1.1 Sulfur Dioxide Emission Limitations

The natural gas-fired heaters and air handling units are each not subject to 326 IAC 326 IAC 7-1.1 since each unit has a potential to emit sulfur dioxide at a rate of less than 25 tons/year and 10 pounds/hour, respectively.

326 IAC 8-1-6 (New Facilities; General Reduction Requirements)

The natural gas-fired heaters and air handling units are each not subject to the requirement of 326 IAC 8-1-6, since each unit does not have the potential to emit 25 tons or more of VOC per year.

Emergency Generator (EG-1)

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

The emergency generator is not subject to 326 IAC 6-2-2 since it is not a source of indirect heating.

Source Name: Harlan Bakeries- GT, LLC Page 12 of 13 Indianapolis, Indiana TSD for M097-32467-00637

Permit Reviewer: Brian Wright

326 IAC 7-1.1 Sulfur Dioxide Emission Limitations

The emergency generator is not subject to 326 IAC 326 IAC 7-1.1 since it has a potential to emit sulfur dioxide at a rate of less than 25 tons/year and 10 pounds/hour, respectively.

326 IAC 8-1-6 (New Facilities; General Reduction Requirements)

The emergency generator is not subject to the requirement of 326 IAC 8-1-6, since it does not have the potential to emit 25 tons or more of VOC per year.

Degreasing Operation

326 IAC 8-1-6 (New Facilities; General Reduction Requirements)

The degreasing operation is not subject to the requirement of 326 IAC 8-1-6, since it does not have the potential to emit 25 tons or more of VOC per year.

326 IAC 8-3-2 (Cold Cleaner Operations)

The cold cleaner degreaser is subject to the the requirements of 326 IAC 8-3-2 (Cold Cleaner Operations), since the cold cleaning degreaser was constructed after January 1, 1980, and is equipped with a remote solvent reservoir.

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for each cold cleaning operation constructed after January 1, 1980, and equipped with a remote solvent reservoir, the Permittee shall comply with the following:

- (a) The owner or operator of a cold cleaner degreaser shall ensure the following control equipment and operating requirements are met:
 - (1) Equip the degreaser with a cover.
 - (2) Equip the degreaser with a device for draining cleaned parts.
 - (3) Close the degreaser cover whenever parts are not being handled in the degreaser.
 - (4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases.
 - (5) Provide a permanent, conspicuous label that lists the operating requirements in subdivisions (3), (4), (6), and (7).
 - (6) Store waste solvent only in closed containers.
 - (7) Prohibit the disposal or transfer of waste solvent in such a manner that could allow greater than twenty percent (20%) of the waste solvent (by weight) to evaporate into the atmosphere.

Inkjet Printers

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

The inkjet printers are not subject to the requirement of 326 IAC 8-1-6, since they do not have the potential to emit 25 tons or more of VOC per year.

326 IAC 8-2-5 (Paper Coating Operations)

The inkjet printers are not subject to the requirements of 326 IAC 8-2-5, since they are not web coating or saturation processes.

Source Name: Harlan Bakeries- GT, LLC Page 13 of 13 Indianapolis, Indiana TSD for M097-32467-00637

Permit Reviewer: Brian Wright

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

The inkjet printers are not subject to the requirements of 326 IAC 8-5-5, since they are not packaging rotogravure, publication rotogravure, and flexographic printing sources.

Recommendation

The staff recommends to the Commissioner that the MSOP Renewal be approved. This recommendation is based on the following facts and conditions:

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 October 30, 2012.

Conclusion

The operation of this stationary bakery shall be subject to the conditions of the attached MSOP Renewal No. M097-32467-00637.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Brian Wright at the 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) 234-6544 or toll free at 1-800-451-6027 extension 4-6544.
- (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's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

Appendix A: Emission Calculations Emission Summary

Company Name: Harlan Bakeries - GT, LLC

Source Address: 7575 Georgetown Rd, Indianapolis, IN 46268

Permit #: M097-32467-00637 Reviewer: Brian Wright Date: 11/01/12

Unlimited Potential to Emit before Integral Controls

| | | | | | | Potential to E | mit (tons/\ | (ear) | | | |
|--|------------------------|------------------|-------------------|-----------------|-------|----------------|-------------|--------|-------|---------|--------------|
| | I I I GHG as I Total I | | | | | | | | | | |
| Process | PM | PM ₁₀ | PM _{2.5} | SO ₂ | NOx | VOC | co | CO2e | HAPs | s | ingle HAP |
| Bagel Line (Bagel Oven + Ancillary Baking Equipment) (Fermentation)* | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.10 | 0.00 | 0 | 0.74 | 0.74 | Acetaldehyde |
| Bagel Oven (Natural Gas) | 0.04 | 0.17 | 0.17 | 0.01 | 2.30 | 0.13 | 1.93 | 2,776 | 0.04 | 0.04 | Hexane |
| Raw Material Area | 85.43 | 30.06 | 30.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0.00 | 0.00 | |
| Mixing Area Dust Collector | 31.54 | 31.54 | 31.54 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0.00 | 0.00 | |
| Natural Gas Units | 0.57 | 2.28 | 2.28 | 0.18 | 29.98 | 1.65 | 25.18 | 36,197 | 0.57 | 0.54 | Hexane |
| Emergency Generator | 0.004 | 0.002 | 0.002 | 1.2E-04 | 0.44 | 0.02 | 0.73 | 27 | 0.006 | 4.0E-03 | Formaldehyde |
| Degreasing Operations | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.49 | 0.00 | 0 | 0.00 | 0.00 | • |
| Inkjet Printers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.87 | 0.00 | 0 | 0.00 | 0.00 | • |
| Total | 117.58 | 64.06 | 64.06 | 0.19 | 32.72 | 30.26 | 27.85 | 39.000 | 1.35 | 0.74 | Acetaldehyde |

Unlimited Potential to Emit after Integral Controls

| | | Potential to Emit (tons/year) | | | | | | | | | |
|--|-------|-------------------------------|-------------------|-----------------|-------|-------|-------|----------------|---------------|---------|--------------|
| Process | РМ | PM ₁₀ | PM _{2.5} | SO ₂ | NOx | VOC | со | GHG as CO2e | Total HAPs | S | ingle HAP |
| Bagel Line (Bagel Oven + Ancillary Baking Equipment) (Fermentation)* | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.10 | 0.00 | 0 | 0.74 | 0.74 | Acetaldehyde |
| Bagel Oven (Natural Gas) | 0.04 | 0.17 | 0.17 | 0.01 | 2.30 | 0.13 | 1.93 | 2,776 | 0.04 | 0.04 | Hexane |
| Raw Material Area | 4.27 | 1.50 | 1.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0.00 | 0.00 | |
| Mixing Area Dust Collector | 31.54 | 31.54 | 31.54 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0.00 | 0.00 | |
| Natural Gas Units | 0.57 | 2.28 | 2.28 | 0.18 | 29.98 | 1.65 | 25.18 | 36,197 | 0.57 | 0.54 | Hexane |
| Emergency Generator | 0.004 | 0.002 | 0.002 | 1.2E-04 | 0.44 | 0.02 | 0.73 | 27 | 0.006 | 4.0E-03 | Formaldehyde |
| Degreasing Operations | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.49 | 0.00 | 0 | 0.00 | 0.00 | |
| Inkjet Printers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.87 | 0.00 | 0 | 0.00 | 0.00 | |
| Total | 36.42 | 35 49 | 35 49 | 0.19 | 32 72 | 30.26 | 27.85 | 39 000 | 1 35 | 0.74 | ∆cetaldehyde |

Limited for 326 IAC 8-1-6

| Process | РМ | PM ₁₀ | PM _{2.5} | SO ₂ | NOx | VOC | со | GHG as CO2e | Total HAPs | 5 | Single HAP |
|---|------|------------------|-------------------|-----------------|------|-------|------|----------------|---------------|------|--------------|
| Bagel Line (Bagel Oven + Ancillary Baking Equipment) (Fermentation)* | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 24.72 | 0.00 | 0 | 0.74 | 0.74 | Acetaldehyde |
| Bagel Oven (Natural Gas) | 0.04 | 0.17 | 0.17 | 0.01 | 2.30 | 0.13 | 1.93 | 2,776 | 0.04 | 0.04 | Hexane |
| Total Limited for Bagel Line (Fermentation + Natural Gas) | 0.04 | 0.17 | 0.17 | 0.01 | 2.30 | 24.85 | 1.93 | 2,776 | 0.78 | 0.74 | Acetaldehyde |

^{*}The Bagel Line Ancillary Baking Equipment includes any proof boxes

Appendix A: Emissions Calculations Bagel Line (Fermentation) Consting of Bagel Oven and Bagel Line Ancillary Baking Equipment (including proof box

Company Name: Harlan Bakeries - GT. LLC

Source Address: 7575 Georgetown Rd, Indianapolis, IN 46268 Permit #: M097-32467-00637

Reviewer: Brian Wright Date: 11/01/12

<u>Bagel Oven Emissions</u>
AP-42 9.9.6; Bread Baking VOC Emission Estimating Guide

VOC E.F. = 0.95Yi + 0.195 ti - 0.51S - 0.86ts + 1.90

Yi = Bakers % of Yeast = lbs yeast/lbs flour *100

ti = total yeast action in hours (proof time) S = Final Spike (sponge dough), NA

ts = spike time in hours, NA

| | | | | | | Emission Factor | Max Ca | apacity | Emiss | ions * |
|---|-----------|--------------------|--------|----|------------------|--------------------------------|-------------------------|-------------------------|---------------------------|---------------------------|
| Line | Yi | ti | s | ts | 1.90 constant | Ib VOC/Ton Baked Product | Ton Baked Product/Hr | Ton Baked Product/Yr | PTE VOC (lb/hr) | PTE VOC (TPY) |
| Bagel Oven | 1.58 | 1 | 0 | 0 | 1.9 | 3.596 | 1.56 | 13704.53 | 5.63 | 24.64 |
| Methodology Emissions (lb/hr) = ton baked product per hou | r X lb VO | per ton of baked p | roduct | | | | | | PTE HAP (lb/hr 0.17 | PTE HAP* (TPY) 0.74 |

Emissions (ton/yr) = emissions lb/hr X 8760 hours per year X 1 ton/2000 lb

- * VOCs emitted during fermentation (leavening) assumed to be 97% ethanol and 3% acetaldehyde (VOC/HAP), based on
- the following document and supporting information:

 1. "Alternative Control Technology Document for Bakery Oven Emissions" (EPA 453/R-92-017, December 1992)

 2. Henderson, D.C., 1977, "Commercial Bakeries as a Major Source of Reactive Volatile Organic Gases", U.S. EPA,
- Region XI Surveillance and Analysis Division

Bagel Line Ancillary Baking Equipment Emissions (including Proof Box)

IDEM has adopted the assumption that emissions from ancillary baking equipment (including proof box) are 10% of those from the bread baking oven. This is derived from the "Alternative Control Technology for Bakery Oven Emissions" released by the USEPA in 1992.

Emission Factor: 10% of Oven Emission VOC

Potential Emissions: 0.56 lb/hr VOC 2.46 TPY VOC

| <u>Total Bagel Line Emissions</u> Sum of Bagel Oven and Bagel Line A | ncillary Baking Equipment (inclu | uding proof box | |
|---|----------------------------------|-----------------|------------|
| voc: | 6.19 lb/hr | 27.10 TPY | Total VOC |
| LIAD. | | 0.74 TDV | Total HADe |

326 IAC 8-1-6 BACT Avoidance Limit

In order to render the requirements of 326 IAC 8-1-6 not applicable, the total amount of baked products produced in the Bagel Line shall be less than 12,500 tons per twelve (12) consecutive month period, with compliance determined at the end of each month, VOC emissions from the Bagel Oven (OVEN-1003) shall not exceed 3.596 pounds per ton of baked product; and VOC emissions from the Bagel Line Ancillary Baking Equipment shall not exceed 0.3596 pounds per ton of baked product.

| | Factor | Max C | apacity | Emis | sions | | | | | |
|---|--------|-------|---------|------|------------------|--------------------------------|-------------------------|-------------------------|--------------------|------------------|
| Line | Yi | ti | s | ts | 1.90 constant | Ib VOC/Ton Baked Product | Ton Baked Product/Hr | Ton Baked Product/Yr | PTE VOC (lb/hr) | PTE VOC (TPY) |
| Bagel Oven | 1.58 | 1 | 0 | 0 | 1.9 | 3.596 | 1.56 | 12500 | 5.63 | 22.48 |
| + 10% for Ancillary Baking Equipment (including proof box) Sum of Bagel Oven and Bagel Line Ancillary Baking Equipment (including proof box) | | | | | | | | | | 2.25 24.72 |

VOCs emitted during fermentation (leavening) assumed to be 97% ethanol and 3% acetaldehyde (VOC/HAP), based on the following document and supporting information:

- 1. "Alternative Control Technology Document for Bakery Oven Emissions" (EPA 453/R-92-017, December 1992)
 2. Henderson, D.C., 1977, "Commercial Bakeries as a Major Source of Reactive Volatile Organic Gases", U.S. EPA, Region XI Surveillance and Analysis Division

These references do not include firm emission factors for the speciation of volatile emissions from baking. Harlan Bakeries has agreed to these emission factors (97% ethanol/3% acetaldehyde) since they do not result in any negative effect or restriction on activities at this site. If future testing or studies reveal different emission factors, Harlan reserves the right to present those emissions to IDEM for consideration.

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

Company Name: Harlan Bakeries - GT, LLC

Source Address: 7575 Georgetown Rd, Indianapolis, IN 46268

Permit #: M097-32467-00637 Reviewer: Brian Wright Date: 11/01/12

Heat Input Capacity
MMBtu/hr

5.25

HHV mmBtu

/ Potential Throughput

MMCF/yr

mmscf

1000 46.0

| Unit | MMBTU/hr |
|---------------|----------|
| Oven Heater 1 | 1.750 |
| Oven Heater 2 | 1.750 |
| Oven Heater 3 | 1.750 |
| Total | 5.25 |

| | | Pollutant | | | | | | | | | |
|-------------------------------|------|-----------|---------------|------|-------------|------|------|--|--|--|--|
| | PM* | PM10* | direct PM2.5* | SO2 | NOx | VOC | CO | | | | |
| Emission Factor in lb/MMCF | 1.9 | 7.6 | 7.6 | 0.6 | 100 | 5.5 | 84 | | | | |
| | | | | | **see below | | | | | | |
| Potential Emission in tons/yr | 0.04 | 0.17 | 0.17 | 0.01 | 2.30 | 0.13 | 1.93 | | | | |

^{*}PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined. PM2.5 emission factor is filterable and condensable PM2.5 combined.

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

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

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

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

See next page for HAPs emissions calculations.

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

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

Company Name: Harlan Bakeries - GT, LLC

Source Address: 7575 Georgetown Rd, Indianapolis, IN 46268

Permit #: M097-32467-00637 Reviewer: Brian Wright Date: 11/01/12

| | HAPs - Organics | | | | | | | | | | |
|-------------------------------|--------------------|----------------------------|-------------------------|----------------|--------------------|--|--|--|--|--|--|
| Emission Factor in lb/MMcf | Benzene 2.1E-03 | Dichlorobenzene 1.2E-03 | Formaldehyde 7.5E-02 | Hexane 1.80 | Toluene 3.4E-03 | | | | | | |
| Potential Emission in tons/yr | 4.8E-05 | 2.8E-05 | 1.7E-03 | 0.04 | 7.8E-05 | | | | | | |

| | HAPs - Metals | | | | | | | |
|-------------------------------|-----------------|--------------------|---------------------|----------------------|-------------------|--|--|--|
| Emission Factor in lb/MMcf | Lead 5.0E-04 | Cadmium 1.1E-03 | Chromium 1.4E-03 | Manganese 3.8E-04 | Nickel 2.1E-03 | | | |
| Potential Emission in tons/yr | 1.1E-05 | 2.5E-05 | 3.2E-05 | 8.7E-06 | 4.8E-05 | | | |
| | | | | Total HAPs = | 0.04 | | | |

Methodology is the same as previous page.

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

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

See next page for Greenhouse Gas calculations.

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

Company Name: Harlan Bakeries - GT, LLC

Source Address: 7575 Georgetown Rd, Indianapolis, IN 46268

Permit #: M097-32467-00637 Reviewer: Brian Wright Date: 11/01/12

| | Greenhouse Gas | | | | | |
|---------------------------------------|----------------|------------|------------|--|--|--|
| Emission Factor in lb/MMcf | CO2 120,000 | CH4 2.3 | N2O 2.2 | | | |
| Potential Emission in tons/yr | 2,759 | 0.05 | 0.05 | | | |
| Summed Potential Emissions in tons/yr | yr 2,760 | | | | | |
| CO2e Total in tons/yr | 2,776 | | | | | |

Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64. Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03. Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A. Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

Page 6 of 16, TSD App A

Appendix A: Emissions Calculations Raw Material Area

Company Name: Harlan Bakeries - GT, LLC

Source Address: 7575 Georgetown Rd, Indianapolis, IN 46268

Permit #: M097-32467-00637 Reviewer: Brian Wright Date: 11/01/12

| Source | Capacity | Load | Rate | Emission Factor PM* | Emission Factor PM10/PM2.5 | Uncontro Emiss | | | ed PM10/PM2.5 nissions | Control Efficiency | PM Emiss Integral | ions After Controls | PM10/PM2.5 E Integral | missions After Control |
|-----------|----------|--------|-------|------------------------|-------------------------------|-------------------|-------|-------|---------------------------|-----------------------|----------------------|------------------------|--------------------------|---------------------------|
| | lb | lb/min | lb/hr | lb/ton | lb/ton | lb/hr | TPY | lb/hr | TPY | Percent | lb/hr | TPY | lb/hr | TPY |
| Silo 1** | 100000 | 52 | 3120 | 3.14 | 1.1 | 4.90 | 21.36 | 1.72 | 7.52 | 95.00% | 0.24 | 1.07 | 0.09 | 0.38 |
| Silo 2** | 100000 | 52 | 3120 | 3.14 | 1.1 | 4.90 | 21.36 | 1.72 | 7.52 | 95.00% | 0.24 | 1.07 | 0.09 | 0.38 |
| Day Bin** | - | 104 | 6240 | 3.14 | 1.1 | 9.80 | 42.71 | 3.43 | 15.03 | 95.00% | 0.49 | 2.14 | 0.17 | 0.75 |
| <u> </u> | | • | | | TOTAL | 19.59 | 85.43 | 6.86 | 30.06 | | 0.98 | 4.27 | 0.34 | 1.50 |

^{*} The uncontrolled potential to emit of particulate from the pneumatic conveying of dry ingredients are estimated using AP-42 Table 11.12-2 emission factors for uncontrolled truck unloading of cement supplement to elevated storage silo (pneumatic).

Methodology

Emissions (lb/hr) = Emmision Factor (lb/ton) X Throughput (lb/hr)
Emissions (ton/yr) = emissions lb/hr X 8760 hours per year X 1 ton/2000 lb

^{**}Throughput to these units is limited by a bottleneck created by maximum throughput of the Bagel Line of 1.56 tons per hour of baked product

Page 7 of 16, TSD App A

Appendix A: Emissions Calculations Mixing Area Dust Collector

Company Name: Harlan Bakeries - GT, LLC

Source Address: 7575 Georgetown Rd, Indianapolis, IN 46268

Permit #: M097-32467-00637 Reviewer: Brian Wright Date: 11/01/12

The dust collector has six pickup points near the mixing area for minor dust pickup from mixing. Emissions are calculated based on the filter rating instead of a process emission factor.

Maximum Process Weight Rate: Unknown

Grain Loading Rating for Cartridge Filters: 0.003 gr/dscf

Dust Collector Air Flow Rating: 2,800 cfm

Dust Collector Efficiency: 99%

| | Particulate Emissions Controlled Uncontrolled | | | | | |
|---------------|---|--------------|--|-----|--|--|
| | | | | | | |
| Control ID | lb/hr | lb/hr TPY lb | | TPY | | |
| Mix Collector | 0.07 0.32 7.2 31.54 | | | | | |

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

Natural Gas-Fired Heaters, HVAC Units, Boilers, Ovens, and Washers

Company Name: Harlan Bakeries - GT, LLC

Source Address: 7575 Georgetown Rd, Indianapolis, IN 46268

Permit #: M097-32467-00637 Reviewer: Brian Wright Date: 11/01/12

Heat Input Capacity MMBtu/hr HHV mmBtu Potential Throughput

MMCF/yr

68.45

mmscf 1000

599.6

| | | Pollutant | | | | | | | |
|-------------------------------|------|-----------|---------------|------|-------------|------|-------|--|--|
| | PM* | PM10* | direct PM2.5* | SO2 | NOx | VOC | CO | | |
| Emission Factor in lb/MMCF | 1.9 | 7.6 | 7.6 | 0.6 | 100 | 5.5 | 84 | | |
| | | | | | **see below | | | | |
| Potential Emission in tons/yr | 0.57 | 2.28 | 2.28 | 0.18 | 29.98 | 1.65 | 25.18 | | |

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

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

Methodology

All emission factors are based on normal firing.

MMBtu = 1.000.000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

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

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

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

See next page for HAPs emissions calculations.

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

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

Natural Gas-Fired Heaters, HVAC Units, Boilers, Ovens, and Washers

Company Name: Harlan Bakeries - GT, LLC

Source Address: 7575 Georgetown Rd, Indianapolis, IN 46268

Permit #: M097-32467-00637 Reviewer: Brian Wright Date: 11/01/12

| | HAPs - Organics | | | | | | | |
|-------------------------------|--------------------|----------------------------|-------------------------|-------------------|--------------------|--|--|--|
| Emission Factor in lb/MMcf | Benzene 2.1E-03 | Dichlorobenzene 1.2E-03 | Formaldehyde 7.5E-02 | Hexane 1.8E+00 | Toluene 3.4E-03 | | | |
| Potential Emission in tons/yr | 6.3E-04 | 3.6E-04 | 2.2E-02 | 0.54 | 1.0E-03 | | | |

| | HAPs - Metals | | | | | | | |
|-------------------------------|-----------------|--------------------|---------------------|----------------------|-------------------|--|--|--|
| Emission Factor in lb/MMcf | Lead 5.0E-04 | Cadmium 1.1E-03 | Chromium 1.4E-03 | Manganese 3.8E-04 | Nickel 2.1E-03 | | | |
| Potential Emission in tons/yr | 1.5E-04 | 3.3E-04 | 4.2E-04 | 1.1E-04 | 6.3E-04 | | | |

Total HAPs = 0.57

Methodology is the same as previous page.

The five highest organic and metal HAPs emission factors are provided above. Additional HAPs emission factors are available in AP-42, Chapter 1.4. See previous page for Greenhouse Gas calculations.

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

Greenhouse Gas Emissions

Natural Gas-Fired Heaters, HVAC Units, Boilers, Ovens, and Washers

Company Name: Harlan Bakeries - GT, LLC

Source Address: 7575 Georgetown Rd, Indianapolis, IN 46268

Permit #: M097-32467-00637 Reviewer: Brian Wright Date: 11/01/12

| | | Greenhouse Gas | | | | | |
|---------------------------------------|----------------|----------------|------------|--|--|--|--|
| Emission Factor in lb/MMcf | CO2 120,000 | CH4 2.3 | N2O 2.2 | | | | |
| Potential Emission in tons/yr | 35,978 | 0.7 | 0.7 | | | | |
| Summed Potential Emissions in tons/yr | 35,980 | | | | | | |
| CO2e Total in tons/yr | 36,197 | | | | | | |

Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.

Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.

Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

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

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

Attachment A: Emission Calculations **Heater & HVAC Listing**

Company Name: Harlan Bakeries - GT, LLC

Source Address: 7575 Georgetown Rd, Indianapolis, IN 46268
Permit #: M097-32467-00637
Reviewer: Brian Wright
Date: 11/01/12

Existing Permitted Units*

| Existing Permitted Units' Unit Description | Unit ID | Tons | Manufacturer | Year Installed | MMBtu/hr | Total MMBtu/hr |
|--|----------------|------|--------------|----------------|----------|----------------|
| • | HVAC-RTU-0100 | 25 | LENOX | 2004 | 0.30 | |
| | HVAC-RTU-0101 | 15 | LENOX | 2004 | 0.18 | |
| | HVAC-RTU-0103 | 25 | LENOX | 2004 | 0.30 | 1 |
| | HVAC-RTU-0106 | 20 | TRANE | 2004 | 0.24 | 1 |
| | HVAC-RTU-0107 | 30 | TRANE | 2004 | 0.36 | 1 |
| Eleven (11) HVAC units | HVAC-RTU-0108 | 4 | TRANE | 2004 | 0.048 | 2.17 |
| , | HVAC-RTU-0109 | 7.5 | TRANE | 2004 | 0.09 | |
| | HVAC-RTU-0111 | 6.5 | TRANE | 2004 | 0.078 | |
| | HVAC-RTU-0112 | 3 | TRANE | 2004 | 0.036 | |
| | HVAC-RTU-0113 | 4 | TRANE | 2004 | 0.048 | |
| | HVAC-RTU-0114 | | ABSOLUTAIRE | 2004 | 0.486 | |
| | HVAC-RTU-2001 | 5 | TRANE | 2008 | 0.06 | |
| | HVAC-RTU-2002 | 10 | TRANE | 2008 | 0.12 | 1 |
| | HVAC-RTU-2003 | 20 | TRANE | 2008 | 0.24 | |
| | HVAC-RTU-2004 | 25 | TRANE | 2008 | 0.30 | |
| | HVAC-RTU-2005 | 15 | TRANE | 2008 | 0.18 | |
| | HVAC-RTU-2006 | 10 | TRANE | 2008 | 0.12 | |
| | HVAC-RTU-2007 | 15 | TRANE | 2008 | 0.12 | |
| | HVAC-RTU-2007 | 55 | TRANE | 2008 | 0.16 | |
| | HVAC-RTU-2008B | 5 | TRANE | 2008 | 0.06 | 1 |
| | HVAC-RTU-2008 | 5 | TRANE | 2008 | 0.06 | |
| Twenty (20) HVAC units | HVAC-RTU-2009 | 7.5 | TRANE | 2008 | 0.00 | 3.432 |
| | | | | | | |
| | HVAC-RTU-2011 | 10 | TRANE | 2008 | 0.12 | |
| | HVAC-RTU-2012 | 7.5 | TRANE | 2008 | 0.09 | |
| | HVAC-RTU-2013 | 6 | TRANE | 2008 | 0.072 | |
| | HVAC-RTU-2014 | 20 | TRANE | 2008 | 0.24 | |
| | HVAC-RTU-2015 | 25 | TRANE | 2008 | 0.30 | |
| | HVAC-RTU-2016 | 25 | TRANE | 2008 | 0.30 | |
| | HVAC-RTU-2017 | 5 | TRANE | 2008 | 0.06 | |
| | HVAC-RTU-2019 | 5 | TRANE | 2008 | 0.06 | |
| 0 (1) 1 B (4 0 1) | HVAC-RTU-2020 | 10 | TRANE | 2008 | 0.12 | 2.222 |
| One (1) HVAC unit | HVAC-RTU-2021 | 3 | LENOX | 2010 | 0.036 | 0.036 |
| TI (0) I (| HEATER-1005 | | TRANE | 2011 | 0.03 | 0.00 |
| Three (3) heaters | HEATER-1006 | | REZ | 2011 | 0.03 | 0.09 |
| | HEATER-1009 | | TRANE | 2011 | 0.03 | |
| | HVAC-RTU-0116 | 25 | CARRIER | 2011 | 0.30 | |
| | HVAC-RTU-2023 | | STERLING | 2011 | 1.395 | |
| | HVAC-RTU-2101 | 130 | TRANE | 2011 | 1.56 | |
| | HVAC-RTU-2102 | 75 | TRANE | 2011 | 0.90 | |
| | HVAC-RTU-2103 | 25 | TRANE | 2011 | 0.30 | |
| | HVAC-RTU-2104 | 130 | TRANE | 2011 | 1.56 | |
| | HVAC-RTU-2105 | 25 | TRANE | 2011 | 0.30 | |
| Fifteen (15) HVAC units | HVAC-RTU-2106 | 5 | TRANE | 2011 | 0.06 | 9.26 |
| | HVAC-RTU-2107 | 30 | TRANE | 2011 | 0.36 | |
| | HVAC-RTU-2108 | 30 | TRANE | 2011 | 0.36 |] |
| | HVAC-RTU-2109 | 30 | TRANE | 2011 | 0.36 | |
| | HVAC-RTU-2110 | 25 | TRANE | 2011 | 0.30 |] |
| | HVAC-RTU-2111 | 25 | TRANE | 2011 | 0.30 | |
| | HVAC-RTU-2112 | 40 | TRANE | 2011 | 0.48 |] |
| | HVAC-RTU-2113 | 60 | TRANE | 2011 | 0.72 | <u> </u> |
| | HVAC-RTU-1001 | 15 | TRANE | 2012 | 0.18 | |
| Three (3) HVAC units | HVAC-RTU-1002 | 15 | TRANE | 2012 | 0.18 | 0.54 |
| , | HVAC-RTU-1003 | 15 | TRANE | 2012 | 0.18 | 1 |

Attachment A: Emission Calculations Boiler, Oven, and Washer Listing

Company Name: Harlan Bakeries - GT, LLC
Source Address: 7575 Georgetown Rd, Indianapolis, IN 46268
Permit #: M097-32467-00637
Reviewer: Brian Wright

Date: 11/01/12

Existing Permitted Units*

| Description | Harlan ID | MMBtu/hr |
|------------------------------------|---------------|----------|
| BKL3 Bagel Oven | OVEN-1003 | 5.25 |
| IC Boiler | BOILER-S-1000 | 6.30 |
| IC Boiler | BOILER-S-1001 | 6.30 |
| Douglas Machine Pan Washer | WASHER-0205 | 0.15 |
| Pan Washer #1 PW-1 | WASHER-0200 | 0.50 |
| Pan Washer #2 PW-3 | WASHER-1011 | 1.00 |
| Loaf Cake Oven (Baker Perkins 960) | OVEN-1000 | 3.094 |
| Pie Oven (Lanly) | OVEN-1002 | 8.40 |
| R&D Baking Oven | OVEN-R-1000 | 0.343 |
| Granola & Cookie Oven | OVEN-R-1004 | 0.343 |
| Granola & Cookie Oven | OVEN-R-1005 | 0.343 |
| Granola & Cookie Oven | OVEN-R-1006 | 0.343 |
| Granola & Cookie Oven | OVEN-R-1007 | 0.343 |
| Granola & Cookie Oven | OVEN-R-1008 | 0.343 |
| Double Rack Oven Revent | OVEN-R-1009 | 0.343 |
| Double Rack Oven Revent | OVEN-R-1010 | 0.343 |
| Tote Washer | WASHER-1001 | 0.695 |
| Bryan Boiler 1001 | BOILER-1001 | 2.50 |
| Bryan Boiler 1002 | BOILER-1002 | 2.50 |
| Bar Oven Line 1 | OVEN-1101 | 4.50 |
| Bar Oven Line 2 | OVEN-1102 | 4.50 |
| Bar Oven Line 3 | OVEN-1103 | 4.50 |

Grand Total = 52.93

Appendix A: Emission Calculations Natural Gas-Fired Spark-Ignition 4-Stroke Rich-Burn

Company Name: Harlan Bakeries - GT, LLC

Source Address: 7575 Georgetown Rd, Indianapolis, IN 46268

Permit #: M097-32467-00637 Reviewer: Brian Wright Date: 11/01/12

A. Emissions calculated based on heat input capacity (MMBtu/hr)

| Heat Input Capacity (MMBtu/hr) | 0.789 |
|---------------------------------|-------|
| Maximum Hours Operated per Year | |
| Potential Throughput (MMBtu/yr) | |
| Sulfur Content (S) of Fuel | 0.500 |

| | Pollutant | | | | | | | |
|-------------------------------|-----------|--------|--------|-----------|-------------|----------|--------------|--|
| | PM* | PM10* | PM2.5* | SO2 | NOx | VOC | CO | |
| Emission Factor in lb/MMBtu | 0.019 | 0.0095 | 0.0095 | 5.880E-04 | 2.21 | 1.18E-01 | 3.72 | |
| | | | | | **see below | | ***see below | |
| Potential Emission in tons/yr | 0.004 | 0.002 | 0.002 | 0.0001 | 0.44 | 0.02 | 0.73 | |

^{*}The source stated that PM includes filterable and condensable PM.

Hazardous Air Pollutants (HAPs)

| | | Pollutant | | | | | | | | |
|-------------------------------|----------|-----------|----------|--------------|--------------|----------|-----------|--|--|--|
| | | | | | | | Total PAH | | | |
| | Benzene | Toluene | Xylene | Formaldehyde | Acetaldehyde | Acrolein | HAPs*** | | | |
| Emission Factor in lb/MMBtu | 1.58E-03 | 5.58E-04 | 1.94E-04 | 2.05E-02 | 2.79E-03 | 2.63E-03 | 1.41E-04 | | | |
| Potential Emission in tons/yr | 3.1E-04 | 1.1E-04 | 3.8E-05 | 4.0E-03 | 5.5E-04 | 5.2E-04 | 2.8E-05 | | | |

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

Total HAPs 0.01

Methodology

Emission Factors are from AP 42, Table 3.2-2.

Potential Throughput (MMBtu/yr) = [Heat Input Capacity (MMBtu/hr)] * [Maximum Hours Operated per Year] Potential Emission (tons/yr) = [Potential Throughput (MMBtu/yr)] * [Emission Factor (lb/MMBtu)] / [2,000 lb/ton]

^{**}NOx emissions: uncontrolled = 2.21 lb/MMBtu (90% - 105% load)

^{***}CO emissions: uncontrolled = 3.72 lb/MMBtu (90% - 105% load)

Appendix A: Emission Calculations Natural Gas-Fired Spark-Ignition 4-Stroke Rich-Burn

Company Name: Harlan Bakeries - GT, LLC

Source Address: 7575 Georgetown Rd, Indianapolis, IN 46268

Permit #: M097-32467-00637 Reviewer: Brian Wright Date: 11/01/12

Green House Gas Emissions (GHG)

| | Pollutant | | | | | |
|-------------------------------|-----------|----------|----------|--|--|--|
| | CO2 | CH4 | N2O | | | |
| Emission Factor in lb/MMbtu | 110.00 | 1.25E+00 | 1.00E-04 | | | |
| Potential Emission in tons/yr | 21.70 | 2.47E-01 | 1.97E-05 | | | |

| Summed Potential Emissions in tons/yr | 22 |
|---------------------------------------|----|
| CO2e Total in tons/yr | 27 |

Methodology

Emission Factors are from AP 42 (Supplement B 10/96) Tables 3.2-2.

N2O Emission Factor from 40 CFR 98 Subpart C Table C-2.

Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

Potential Throughput (MMBtu/yr) = [Heat Input Capacity (MMBtu/hr)] * [Maximum Hours Operated per Year]

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

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential

Page 15 of 16, TSD App A

Attachment A: Emission Calculations Parts Cleaner / Degreaser

Company Name: Harlan Bakeries - GT, LLC

Source Address: 7575 Georgetown Rd, Indianapolis, IN 46268

| Degreasing | Maximum Usage | Density | Weight % | VOC Emissions |
|---------------|----------------|--------------|----------|---------------|
| Operations | (gallons/year) | (lbs/gallon) | VOC | (ton/yr) |
| Parts Cleaner | 145 | 6.70 | 100% | 0.49 |

Methodology

VOC Emissions (tons/yr) = [Maximum Usage (gallons/yr)] * [Density (lbs/gallon)] * [Weight % VOC] / [2000 lbs/ton]

Attachment A: Emission Calculations Inkjet Printers

Company Name: Harlan Bakeries - GT, LLC

Source Address: 7575 Georgetown Rd, Indianapolis, IN 46268

Permit #: M097-32467-00637 Reviewer: Brian Wright Date: 11/01/12

Inkjet printers are utilized on the lines for printing of a date stamp and recall code on packaging. There are a total of twelve (12) printers, with a maximum of seven (7) printers being used at one time. The extra five (5) printers are available for rotation for preventive maintenance or repair purposes.

Ink Data

| | Mix Ratio | Density | VOC C | Content |
|----------------|-------------|-----------|-----------|----------|
| | (by Volume) | (lbs/gal) | (% by wt) | (lb/gal) |
| Black Ink | 60% | 6.67 | 99.0% | 6.60 |
| Inkjet Solvent | 40% | 6.70 | 100.0% | 6.70 |
| Total Ink | 100% | 6.68 | 99.4% | 6.64 |

Emissions from

Inkjet Printing

| | Usage | | | VOC Emissions | | | |
|-----------|----------|-----------|------------|---------------|----------|-----------|--|
| | (gal/hr) | (gal/day) | (gal/yr) * | (lb/hr) | (lb/day) | (tons/yr) | |
| Actual | | | 147.0 | | | 0.49 | |
| Potential | 0.03 | 0.72 | 262.8 | 0.20 | 4.78 | 0.87 | |

^{*} Actual ink usage for 2008 approximately 147 gallons.

VOC Emissions in tons/yr = [(Usage in gal/yr) * (VOC Content in lb/gal)]/2000

There are no HAPs present in the ink or solvent.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT



We Protect Hoosiers and Our Environment.

Michael R. Pence Governor

Thomas W. Easterly Commissioner

100 North Senate Avenue Indianapolis, Indiana 46204 (317) 232-8603 Toll Free (800) 451-6027 www.idem.IN.gov

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

TO: Darla Carlisle

Harlan Bakeries – GT, LLC 7597 East US Highway 36

Avon, IN 46123

DATE: May 24, 2013

FROM: Matt Stuckey, Branch Chief

Permits Branch Office of Air Quality

SUBJECT: Final Decision

Minor Source Operating Permit (MSOP) Renewal

097-32467-00637

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to: Hugh P Harlan, President Holly Padovani, EHS Technology Group, LLC OAQ Permits Branch Interested Parties List

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

Final Applicant Cover letter.dot 11/30/07







We Protect Hoosiers and Our Environment.

Michael R. Pence Governor

Thomas W. Easterly Commissioner

100 North Senate Avenue Indianapolis, Indiana 46204 (317) 232-8603 Toll Free (800) 451-6027 www.idem.IN.gov

May 24, 2013

TO: Pike Branch, Indianapolis-Marion County Public Library

From: Matthew Stuckey, Branch Chief

> Permits Branch Office of Air Quality

Subject: Important Information for Display Regarding a Final Determination

> Harlan Bakeries - GT, LLC **Applicant Name:**

Permit Number: 097-32467-00637

You previously received information to make available to the public during the public comment period of a draft permit. Enclosed is a copy of the final decision and supporting materials for the same project. Please place the enclosed information along with the information you previously received. To ensure that your patrons have ample opportunity to review the enclosed permit, we ask that you retain this document for at least 60 days.

The applicant is responsible for placing a copy of the application in your library. If the permit application is not on file, or if you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185.

> Enclosures Final Library.dot 11/30/07



Mail Code 61-53

| IDEM Staff | VHAUN 5/24/20 | 13 | | |
|------------|-----------------|--|----------------|-------------|
| | Harlan Bakeries | - GT, LLC 097-32467-00637 FINAL | AFFIX STAMP | |
| Name and | | Indiana Department of Environmental | Type of Mail: | HERE IF |
| address of | | Management | | USED AS |
| Sender | | Office of Air Quality – Permits Branch | CERTIFICATE OF | CERTIFICATE |
| | | 100 N. Senate | MAILING ONLY | OF MAILING |
| | | Indianapolis, IN 46204 | MAILING ONE! | |

| Line | Article Number | Name, Address, Street and Post Office Address | Postage | Handing Charges | Act. Value (If Registered) | Insured Value | Due Send if COD | R.R. Fee | S.D. Fee | S.H. Fee | Rest. Del. Fee |
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| | | | | | | | | | | | Remarks |
| 1 | | Darla Carlisle Harlan Bakeries - GT, LLC 7597 E US Hwy 36 Avon IN 46123 (Source | CAATS) Coi | nfirmed Delive | ry | | | | 1 | | |
| 2 | | Hugh P Harlan President Harlan Bakeries - GT, LLC 7597 E US Hwy 36 Avon IN 46 | 123 <i>(RO CAA</i> | ATS) | | | | | | | |
| 3 | | Marion County Health Department 3838 N, Rural St Indianapolis IN 46205-2930 (Health Department) | | | | | | | | | |
| 4 | | Indianapolis City Council and Mayors Office 200 East Washington Street, Room E Ir | idianapolis IN | 46204 (Loca | al Official) | | | | | | |
| 5 | | Marion County Commissioners 200 E. Washington St. City County Bldg., Suite 801 | ndianapolis II | N 46204 (Loc | cal Official) | | | | | | |
| 6 | | Pike Branch Library 6525 Zionsville Road Indianapolis IN 46268 (Library) | | | | | | | | | |
| 7 | | Ms. Holly Padovani EHS Technology Group, LLC 965 Capstone Dr. Suite 420 Miamisl | ourg OH 453 | 42 (Consultar | nt) | | | | | | |
| 8 | | Matt Mosier Office of Sustainability 1200 S Madison Ave #200 Indianapolis IN 46225 | (Local Officia | al) | | | | | | | |
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