NOTICE OF 30-DAY PERIOD FOR PUBLIC COMMENT

Preliminary Findings Regarding the Renewal of a Minor Source Operating Permit (MSOP)

for ATMI-Indy, LLC in Hancock County

MSOP Renewal No.: M059-42234-00043

The Indiana Department of Environmental Management (IDEM) has received an application from ATMI-Indy, LLC located at 6324 Stoner Drive, Greenfield, IN 46140 for a renewal of its MSOP issued on March 24, 2015. If approved by IDEM’s Office of Air Quality (OAQ), this proposed renewal would allow ATMI-Indy, LLC to continue to operate its existing source.

This draft permit does not contain any new equipment that would emit air pollutants; however, some conditions from previously issued permits/approvals have been corrected, changed, or removed. These corrections, changes, and removals may include Title I changes (e.g., changes that add or modify synthetic minor emission limits). This notice fulfills the public notice procedures to which those conditions are subject. IDEM has reviewed this application and has developed preliminary findings, consisting of a draft permit and several supporting documents, which would allow for these changes.

A copy of the permit application and IDEM’s preliminary findings are available at:

Hancock Public Library
900 West McKenzie Road
Greenfield, IN 46140

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

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

How can you participate in this process?

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

You may request that IDEM hold a public hearing about this draft permit. If adverse comments concerning the air pollution impact of this draft permit are received, with a request for a public hearing, IDEM will decide whether or not to hold a public hearing. IDEM could also decide to hold a public meeting instead of, or in addition to, a public hearing. If a public hearing or meeting is held, IDEM will make a separate announcement of the date, time, and location of that hearing or meeting. At a hearing, you would have an opportunity to submit written comments and make verbal comments. At a meeting, you would have an opportunity to submit written comments, ask questions, and discuss any air pollution concerns with IDEM staff.
Comments and supporting documentation, or a request for a public hearing should be sent in writing to IDEM at the address below. If you comment via e-mail, please include your full U.S. mailing address so that you can be added to IDEM’s mailing list to receive notice of future action related to this permit. If you do not want to comment at this time, but would like to receive notice of future action related to this permit application, please contact IDEM at the address below. Please refer to permit number M059-42234-00043 in all correspondence.

Comments should be sent to:

Travis Flock  
IDEM, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
(800) 451-6027, ask for Travis Flock or (317) 233-1782  
Or dial directly: (317) 233-1782  
Fax: (317) 232-6749 attn: Travis Flock  
E-mail: tflock@idem.IN.gov

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

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

What will happen after IDEM makes a decision?

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

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

Brian Williams, Section Chief  
Permits Branch  
Office of Air Quality
Minor Source Operating Permit Renewal

OFFICE OF AIR QUALITY

ATMI-Indy, LLC
6324 West Stoner Drive
Greenfield, Indiana 46140

(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.

<table>
<thead>
<tr>
<th>Operation Permit No.: M059-42234-00043</th>
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<tbody>
<tr>
<td>Master Agency Interest ID: 108952</td>
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<table>
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<tr>
<th>Issued by:</th>
<th>Issuance Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brian Willams, Section Chief Permits Branch Office of Air Quality</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Expiration Date:</th>
</tr>
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SECTION A  SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 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 insulated precast concrete wall manufacturing.

<table>
<thead>
<tr>
<th>Source Address:</th>
<th>6324 West Stoner Drive, Greenfield, Indiana 46140</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Source Phone Number:</td>
<td>317-866-2097</td>
</tr>
<tr>
<td>SIC Code:</td>
<td>3272 (Concrete Products, Except Brick and Block)</td>
</tr>
<tr>
<td>County Location:</td>
<td>Hancock</td>
</tr>
<tr>
<td>Source Location Status:</td>
<td>Attainment for all criteria pollutants</td>
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<tr>
<td>Source Status:</td>
<td>Minor Source Operating Permit Program</td>
</tr>
<tr>
<td></td>
<td>Minor Source, under PSD and Emission Offset Rules</td>
</tr>
<tr>
<td></td>
<td>Minor Source, Section 112 of the Clean Air Act</td>
</tr>
<tr>
<td></td>
<td>Not 1 of 28 Source Categories</td>
</tr>
</tbody>
</table>

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) 75-ton cement silo, identified as EU-1, constructed in 2001, with a maximum capacity of 4.5 tons per hour, using a baghouse (BH-1) as control, and exhausting to stack BH-1.

(b) One (1) 50-ton cement silo, identified as EU-2, constructed in 2001, with a maximum capacity of 4.5 tons per hour, using a baghouse (BH-2) as control, and exhausting to stack BH-2.

(c) One (1) electric cement mixer, identified as EU-3, constructed in 2001, with a maximum capacity of 8.25 tons of cement per hour combined with 46.75 tons of sand, aggregate, and water to produce 55.0 tons of concrete per hour, using no control and exhausting indoors.

(d) One (1) three-sided, covered sand storage bin, identified as EU-4, constructed in 2001, with a maximum capacity of 19 tons per hour, using no controls and exhausting outdoors.

(e) One (1) three-sided, covered aggregate storage bin, identified as EU-5, constructed in 2001, with a maximum capacity of 27 tons per hour, using no controls and exhausting outdoors.

(f) One (1) electric belt conveyor, identified as EU-6, constructed in 2001, with a maximum capacity of 46 tons per hour, using no control and exhausting indoors.

(g) One (1) skip hoist, identified as EU-7, constructed in 2001, with a maximum capacity of 46 tons per hour, using no control and exhausting indoors.

(h) One (1) coating operation, constructed in 2001, brush-applying mold release to metal mold forms MF-1, MF-2, MF-3, MF-1N, and MF-2N, using no control and exhausting indoors.
(i) One (1) natural gas fired process water heater, identified as EU-8, constructed in 2003, with a maximum heat input capacity of 2.50 MMBtu/hr, and exhausting to stack S-1.

(j) One (1) natural gas fired office rooftop HVAC unit, identified as EU-9, constructed in 2001, with a maximum heat input capacity of 0.23 MMBtu/hr, and exhausting to stack V-1.

(k) One (1) natural gas fired office rooftop HVAC unit, identified as EU-10, constructed in 2001, with a maximum heat input capacity of 0.12 MMBtu/hr, and exhausting to stack V-2.

(l) One (1) natural gas fired office rooftop HVAC unit, identified as EU-11, constructed in 2009, with a maximum heat input capacity of 0.15 MMBtu/hr, and exhausting to stack V-3.

(m) One (1) natural gas fired office rooftop HVAC unit, identified as EU-12, constructed in 2014, with a maximum heat input capacity of 0.18 MMBtu/hr, and exhausting to stack V-4.

(n) One (1) natural gas fired plant rooftop HVAC unit, identified as EU-13, constructed in 2001, with a maximum heat input capacity of 1.45 MMBtu/hr, and exhausting to stack V-5.

(o) One (1) natural gas fired infrared heater, identified as EU-14, constructed in 2013, with a maximum heat input capacity of 0.17 MMBtu/hr, and exhausting to stack V-6.

(p) One (1) natural gas fired infrared heater, identified as EU-15, constructed in 2013, with a maximum heat input capacity of 0.17 MMBtu/hr, and exhausting to stack V-7.

(q) One (1) natural gas fired infrared heater, identified as EU-16, constructed in 2013, with a maximum heat input capacity of 0.17 MMBtu/hr, and exhausting to stack V-8.

(r) One (1) production MIG welding operation, identified as W-1, constructed in 2001, with a maximum capacity of 0.06 pounds of wire per hour, and exhausting indoors.

(s) One (1) production plasma cutting operation, identified as C-1, constructed in 2001, with a maximum capacity of 0.01 inch of steel 0.75 inch thick per minute, and exhausting indoors.

(t) One (1) 500 gallon above ground off road diesel fuel tank, identified as T-3, constructed in 2001, with a maximum throughput of 14,000 gallons per year, using no control and exhausting outdoors.

(u) One (1) 300 gallon above ground gasoline tank, identified as T-4, constructed in 2001, with a maximum throughput of 1,300 gallons per year, using no control and exhausting outdoors.

(v) Unpaved roads with public access.

(w) Three (3) cement silos, identified as EU-17, EU-18, and EU-19, respectively, constructed in 2019, each with a maximum capacity of 4.5 tons/hour, using bin vent filters as controls, and exhausting indoors.

(x) One (1) outside sand storage bin, identified as EU-20, approved in 2019 for construction, with a maximum capacity of 2.08 tons/hour, using no controls, and exhausting indoors.
(y) Two (2) outside aggregate storage bins, identified as EU-21 and EU-22, respectively, approved in 2019 for construction, each with a maximum capacity of 2.08 tons/hour, using no controls, and exhausting indoors.

(z) Four (4) hoppers, identified as EU-23, EU-24, EU-25, and EU-26, respectively, constructed in 2019, each with a maximum capacity of 10.06 tons/hour, using no controls, and exhausting indoors.

(a) One (1) feed hopper, identified as EU-27, approved in 2019 for construction, with a maximum capacity of 20.2 tons/hour, using no controls, and exhausting indoors.

(ab) One (1) skip hoist, identified as EU-28, constructed in 2019, with a maximum capacity of 20.17 tons/hour, using no controls, and exhausting indoors.

(ac) One (1) skip hoist, identified as EU-29, approved for construction in 2019, with a maximum capacity of 20.17 tons/hour, using no controls, and exhausting indoors.
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, M059-42234-00043, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

(b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

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

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

(a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or

(b) the emission unit to which the condition pertains permanently ceases operation.

B.4 Enforceability

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

B.5 Severability

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

B.6 Property Rights or Exclusive Privilege

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

B.7 Duty to Provide Information

(a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.

(b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U.S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.
B.8 Annual Notification [326 IAC 2-6.1-5(a)(5)]

(a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.

(b) The annual notice shall be submitted in the format attached no later than March 1 of each year to:

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

(c) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

B.9 Preventive Maintenance Plan [326 IAC 1-6-3]

(a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:

1. Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

2. A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

3. Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

The Permittee shall implement the PMPs.

(b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:

1. Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

2. A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

3. Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:
Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

The Permittee shall implement the PMPs.  

(c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions.  

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

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

(a) All terms and conditions of permits established prior to M059-42234-00043 and issued pursuant to permitting programs approved into the state implementation plan have been either:  

(1) incorporated as originally stated,  

(2) revised, or  

(3) deleted.  

(b) All previous registrations and permits are superseded by this permit.

B.11 Termination of Right to Operate [326 IAC 2-6.1-7(a)]  
The Permittee’s right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least one hundred twenty (120) days prior to the date of expiration of the source’s existing permit, consistent with 326 IAC 2-6.1-7.

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

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-6.1-7. Such information shall be included in the application for each emission unit at this source. The renewal application does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:  

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

(b) A timely renewal application is one that is:  

(1) Submitted at least one hundred twenty (120) days prior to the date of the expiration of this permit; and
(2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

(c) If the Permittee submits a timely and complete application for renewal of this permit, the source’s failure to have a permit is not a violation of 326 IAC 2-6.1 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-6.1-4(b), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

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

(a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to amend or modify this permit.

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

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

(c) The Permittee shall notify the OAQ no later than thirty (30) calendar days of implementing 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
(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.
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 forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.4 Open Burning [326 IAC 4-1][IC 13-17-9]
The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

C.5 Incineration [326 IAC 4-2][326 IAC 9-1-2]
The Permittee shall not operate an incinerator except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.
C.6 Fugitive Dust Emissions [326 IAC 6-4]
The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of
the property, right-of-way, or easement on which the source is located, in a manner that would
violate 326 IAC 6-4 (Fugitive Dust Emissions).

C.7 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]
Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate
matter emissions shall be controlled according to the attached plan as in Attachment A.

C.8 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.

(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.9 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.10 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.11 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.12 Instrument Specifications [326 IAC 2-1.1-11]

(a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale. The analog instrument shall be capable of measuring values outside of the normal range.

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

Corrective Actions and Response Steps

C.13 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.14 Actions Related to Noncompliance Demonstrated by a Stack Test

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.

(b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline.

(c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

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

C.15 Malfunctions Report [326 IAC 1-6-2]

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

(a) A record of all malfunctions, startups or shutdowns of any emission unit or emission control equipment, that results in violations of applicable air pollution control regulations or applicable emission limitations must be kept and retained for a period of three (3) years and be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.

(b) When a malfunction of any emission unit or emission control equipment occurs that lasts more than one (1) hour, the condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification must be made by telephone or other electronic means, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of the occurrence.

(c) Failure to report a malfunction of any emission unit or emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information on the scope and expected duration of the malfunction must be provided, including the items specified in 326 IAC 1-6-2(c)(3)(A) through (E).

(d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.16 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.17 General Reporting Requirements [326 IAC 2-1.1-11][326 IAC 2-6.1-2][IC 13-14-1-13]

(a) Reports required by conditions in Section D of this permit shall be submitted to:

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

(b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

(c) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit “calendar year” means the twelve (12) month period from January 1 to December 31 inclusive.
SECTION D.1  EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(a) One (1) 75-ton cement silo, identified as EU-1, constructed in 2001, with a maximum capacity of 4.5 tons per hour, using a baghouse (BH-1) as control, and exhausting to stack BH-1.

(b) One (1) 50-ton cement silo, identified as EU-2, constructed in 2001, with a maximum capacity of 4.5 tons per hour, using a baghouse (BH-2) as control, and exhausting to stack BH-2.

(c) One (1) electric cement mixer, identified as EU-3, constructed in 2001, with a maximum capacity of 8.25 tons of cement per hour combined with 46.75 tons of sand, aggregate, and water to produce 55.0 tons of concrete per hour, using no control and exhausting indoors.

(w) Three (3) cement silos, identified as EU-17, EU-18, and EU-19, respectively, approved in 2019 for construction, each with a maximum capacity of 4.5 tons/hour, using bin vent filters as controls, and exhausting indoors.

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

Emission Limitations and Standards  [326 IAC 2-6-1-5(a)(1)]

D.1.1 Particulate  [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from each process shall not exceed E pounds per hour when operating at the associated process weight rate P tons per hour.

<table>
<thead>
<tr>
<th>Emissions Unit</th>
<th>Unit ID</th>
<th>P (tons/hr)</th>
<th>E (lb/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>75 ton cement silo</td>
<td>EU-1</td>
<td>4.5</td>
<td>11.23</td>
</tr>
<tr>
<td>50 ton cement silo</td>
<td>EU-2</td>
<td>4.5</td>
<td>11.23</td>
</tr>
<tr>
<td>Cement mixer</td>
<td>EU-3</td>
<td>8.25</td>
<td>45.47</td>
</tr>
<tr>
<td>Cement Silo</td>
<td>EU-17</td>
<td>4.5</td>
<td>11.23</td>
</tr>
<tr>
<td>Cement Silo</td>
<td>EU-18</td>
<td>4.5</td>
<td>11.23</td>
</tr>
<tr>
<td>Cement Silo</td>
<td>EU-19</td>
<td>4.5</td>
<td>11.23</td>
</tr>
</tbody>
</table>

The pounds per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

\[ E = 4.10 \times P^{0.67} \]

where \( E \) = rate of emission in pounds per hour and \( P \) = process weight rate in tons per hour

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

A Preventive Maintenance Plan is required for these facilities and any control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.
SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(i) One (1) natural gas fired process water heater, identified as EU-8, constructed in 2003, with a maximum heat input capacity of 2.50 MMBtu/hr, and exhausting to stack S-1.

(j) One (1) natural gas fired office rooftop HVAC unit, identified as EU-9, constructed in 2001, with a maximum heat input capacity of 0.23 MMBtu/hr, and exhausting to stack V-1.

(k) One (1) natural gas fired office rooftop HVAC unit, identified as EU-10, constructed in 2001, with a maximum heat input capacity of 0.12 MMBtu/hr, and exhausting to stack V-2.

(l) One (1) natural gas fired office rooftop HVAC unit, identified as EU-11, constructed in 2009, with a maximum heat input capacity of 0.15 MMBtu/hr, and exhausting to stack V-3.

(m) One (1) natural gas fired office rooftop HVAC unit, identified as EU-12, constructed in 2014, with a maximum heat input capacity of 0.18 MMBtu/hr, and exhausting to stack V-4.

(n) One (1) natural gas fired plant rooftop HVAC unit, identified as EU-13, constructed in 2001, with a maximum heat input capacity of 1.45 MMBtu/hr, and exhausting to stack V-5.

(o) One (1) natural gas fired infrared heater, identified as EU-14, constructed in 2013, with a maximum heat input capacity of 0.17 MMBtu/hr, and exhausting to stack V-6.

(p) One (1) natural gas fired infrared heater, identified as EU-15, constructed in 2013, with a maximum heat input capacity of 0.17 MMBtu/hr, and exhausting to stack V-7.

(q) One (1) natural gas fired infrared heater, identified as EU-16, constructed in 2013, with a maximum heat input capacity of 0.17 MMBtu/hr, and exhausting to stack V-8.

(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.2.1 Particulate Emissions Limitation [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating), particulate emissions from each natural gas-fired unit shall be limited to 0.6 pounds per MMBtu heat input.
SECTION E.1 NESHAP

Emissions Unit Description:
(t) One (1) 300 gallon above ground gasoline tank, identified as T-4, constructed in 2001, with a maximum throughput of 1,300 gallons per year, using no control and exhausting to the outdoors.

Under 40 CFR 63, Subpart CCCCCC, this is an affected unit.

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

National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-6.1-5(a)(1)]


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

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

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

and

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

E.1.2 National Emission Standards for Gasoline-Dispensing Facilities NESHAP [40 CFR Part 63, Subpart CCCCCC]

The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart CCCCCC (included as Attachment B to the operating permit), for the emissions units listed above:

(1) 40 CFR 63.11110
(2) 40 CFR 63.11111(a), (b), (e), (f), (h), (i)
(3) 40 CFR 63.11112(a)
(4) 40 CFR 63.11113(b), (c)
(5) 40 CFR 11115
(5) 40 CFR 63.11116(a)(1), (a)(2), (a)(3), (a)(4), (b), (c), (d)
(6) 40 CFR 63.11130
(7) 40 CFR 63.11130
(8) 40 CFR 63.11131
(9) 40 CFR 63.11132
(10) Table 3
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).

<table>
<thead>
<tr>
<th><strong>Company Name:</strong></th>
<th>ATMI-Indy, LLC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Source Address:</strong></td>
<td>6324 West Stoner Drive</td>
</tr>
<tr>
<td><strong>City:</strong></td>
<td>Greenfield, Indiana 46140</td>
</tr>
<tr>
<td><strong>Phone #:</strong></td>
<td>(317) 891-6280</td>
</tr>
<tr>
<td><strong>MSOP #:</strong></td>
<td>M059-42234-00043</td>
</tr>
</tbody>
</table>

I hereby certify that ATMI-Indy, LLC is: □ still in operation. □ no longer in operation.

I hereby certify that ATMI-Indy, LLC is: □ in compliance with the requirements of MSOP M059-42234-00043. □ not in compliance with the requirements of MSOP M059-42234-00043.

| **Authorized Individual (typed):** |
| **Title:** |
| **Signature:** |
| **Date:** |

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

<table>
<thead>
<tr>
<th><strong>Noncompliance:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<tr>
<td></td>
</tr>
</tbody>
</table>


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

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

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

COMPANY:_________________________________________________________PHONE NO. (      )___________________
LOCATION: (CITY AND COUNTY)_________________________________________________________________________
PERMIT NO. ________________ AFS PLANT ID: ________________ AFS POINT ID: ________________ INSP:__________
CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON:_______________________________________
_____________________________________________________________________________________________________
DATE/TIME MALFUNCTION STARTED: _____/_____/ 20____ AM / PM
ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: _______________________________________

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE______/______/ 20____ _______________ AM/PM

TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO2, VOC, OTHER:________________________________________
ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: _______________________________________
MEASURES TAKEN TO MINIMIZE EMISSIONS:______________________________________________________________
___________________________________________________________________________________________________
REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:
CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL* SERVICES:_____________________________________
CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: _______________________________________
CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: _________________________
INTERIM CONTROL MEASURES: (IF APPLICABLE)____________________________________________________________
_____________________________________________________________________________________________________
_____________________________________________________________________________________________________
MALFUNCTION REPORTED BY:______________________________ TITLE:______________________________
(SIGNATURE IF FAXED)
MALFUNCTION RECORDED BY:______________________DATE:__________________TIME:__________________

*SEE PAGE 2
Please note - This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 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:

________________________________________________________________________
________________________________________________________________________
**FUGITIVE DUST CONTROL PLAN**

1. **Source Information:**

   ATMI Indy, LLC  
   Robert Ortscheid, GM  
   6324 W Stoner Drive  
   Greenfield, IN 46140

2. **Description of Processes, Operations, and Areas that Potentially Emit Fugitive Dust:**

<table>
<thead>
<tr>
<th>Process, Operation, or Area</th>
<th>Equipment Used</th>
<th>Additional Detail</th>
</tr>
</thead>
</table>
   | Paved Roads, Unpaved Roads, and Parking Lots | *Semi Tractor/Trailer  
*Forklifts  
*Gantry Cranes  
*Straight Trucks  
*Dump Trucks  
*Redi Mix Trucks  
*Autos and Pickups | Maximum of 20 round trips at “peak hours” +/-0.26 mile at 10 miles per hour. |
   | Outside Material Storage Piles | Three, three sided bins, 14’W x 22’L x 11’H each with concrete walls-Loaded with dump truck | Outside storage for sand and aggregate. Material usually 3-5% free moisture. Extra storage, typically trucks dump directly to feeder bins. |
   | Material Transfer from Storage Piles | End Loader | Moved from outside storage to feeder bin |
   | Transporting of Materials | Dump Truck | Not used in plant, only coming in from pit, always tarped on public roads |
   | Loading and Unloading to and from Feed Bins, Hoppers, Silos, and Material Hauling Vehicles | *End loader  
*Dump Truck  
*Pneumatic Cement Tanker  
*Underground Weigh Belt Conveyor for sand/agg to Skip Hoist  
*Skip Hoist to Mixer  
*Enclosed Screw Conveyor from cement silos to mixer | *Feed bins are enclosed on three sides with roof. top of bins are flush with ground.  
*Belt conveyer, Skip Hoist and Mixer are in the building  
*Cement is transferred from tanker to silo pneumatically, silo is equipped with filters |
   | Crushing, Grinding, Screening, Mixing, Conveying, and Transfer of Materials | Enclosed Turbine Concrete Mixer in the Building | Material in mixer is concrete therefore wet, and is inside the building. |
3. Type of Vehicles and Average Daily Traffic on Site Roads:

<table>
<thead>
<tr>
<th>Traffic Type</th>
<th>Vehicle Type and Capacity</th>
<th>Maximum Weight of Vehicle (tons)</th>
<th>Maximum Weight of Load (tons)</th>
<th>Maximum Weight of Vehicle and Load (tons/trip)</th>
<th>Maximum one-way trips per day (trip/day)</th>
<th>Maximum one-way distance (feet/trip)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semi Tractor/Trailers</td>
<td>5 axle-53 ft</td>
<td>12</td>
<td>30</td>
<td>42</td>
<td>25</td>
<td>350</td>
</tr>
<tr>
<td>Dump Trucks</td>
<td>3 axle-22 ton</td>
<td>11</td>
<td>22</td>
<td>33</td>
<td>17</td>
<td>774</td>
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<tr>
<td>Cement Tankers</td>
<td>5 axle-25 ton</td>
<td>15</td>
<td>25</td>
<td>40</td>
<td>3</td>
<td>276</td>
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<tr>
<td>Straight Trucks</td>
<td>3 axle flat-10 ton</td>
<td>6</td>
<td>10</td>
<td>16</td>
<td>10</td>
<td>1027</td>
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<tr>
<td>Redi-Mix Trucks</td>
<td>4 axle-19 ton</td>
<td>12</td>
<td>18</td>
<td>30</td>
<td>12</td>
<td>208</td>
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<tr>
<td>Autos and Pickups</td>
<td>2 axle</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>8</td>
<td>1050</td>
</tr>
</tbody>
</table>

4. Type, Quantity, and Characteristics of Material Handled:

<table>
<thead>
<tr>
<th>Material</th>
<th>Maximum Throughput (tons/hour)</th>
<th>Maximum Pile Size (acres)</th>
<th>Silt Content (wt %)</th>
<th>Moisture Content (wt %)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limestone</td>
<td>27</td>
<td>0.011</td>
<td>Virtually 0% washed material</td>
<td>3.5%</td>
</tr>
<tr>
<td>Sand</td>
<td>19</td>
<td>0.011</td>
<td>Virtually 0% washed material</td>
<td>5.0%</td>
</tr>
<tr>
<td>Cement</td>
<td>9</td>
<td>In Silos</td>
<td>0%</td>
<td>0%</td>
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</tbody>
</table>

5. Fugitive Dust Control Measures:

(a) Fugitive particulate matter (dust) emissions from paved roads, unpaved roads, and parking lots shall be controlled by one or more of the following measures:

1. Paved roads, parking lots, and ramp from storage to feed bins will be cleaned by power brooming while wet or with application of water on an as needed basis.

2. Unpaved roads and parking lots will be treated with water on an as needed basis.

(b) Fugitive particulate matter (dust) emissions from material (sand/limestone) storage piles shall be controlled by one or more of the following measures on an as needed basis:

1. Maintaining minimum size and number of storage piles, total is less than 1000 sf
2. Cleaning around the storage pile area
3. Treating around the storage pile areas with water
4. Treating around storage pile with water

(c) Fugitive particulate matter (dust) emissions from the transferring of materials (sand/limestone) to and from storage piles shall be controlled by one of the following measures on an as needed basis:

1. Minimizing the vehicular distance between transfer points;
2. Reducing free fall distance of transfer points;
3. Applying water to the materials.
(d) Fugitive particulate matter (dust) emissions from transporting of materials (sand/limestone/cement) by truck or front end loaders shall be controlled by one of the following measures on an as needed basis:
(1) Minimizing the vehicular distance between transfer points;
(2) Tarping the vehicles;
(3) Maintaining vehicle bodies in a condition to prevent leakage (e.g., insuring tailgates are tight and do not leak);
(4) Applying water to the materials;
(5) Maintaining a 10 MPH speed limit in the yard.

(e) Fugitive particulate matter (dust) emissions from the loading and unloading of materials (sand, cement, and/or limestone) to and from feed bins, hoppers, silos, and material hauling vehicles shall be controlled by one of the following measures on an as needed basis:
(1) Enclosing the loading/unloading area and if needed exhausting emissions to particulate control equipment during loading/unloading operations;
(2) Reducing free fall distance;
(3) Applying water to the materials;
(4) Cement Silo Venting Filters

(f) Fugitive particulate matter (dust) emissions from material (sand/limestone/cement) mixing, conveying, and transfer shall be controlled by the following measure on an as needed basis:
(1) Reducing free fall distance of transfer points;
(2) Enclosing the emission source;
(3) Applying water to the materials.

6. Specifications for Particulate Control Equipment:

A copy of the manufacturer's specification for the particulate matter control equipment shall be appended to the Fugitive Dust Plan. (Attached)

7. Schedule of Compliance:

This plan will be fully implemented upon startup of operations and adherence to the plan will continue until revisions to the plan have been approved by IDEM.

8. Monitoring and Record Keeping:

(a) Monitoring for visual fugitive dust by supervisors and managers on a continuing basis.
(b) Record date and locations of power sweeping.
(c) Record date and locations of water application.
(d) Record date of filter replacement on cement silo vents.

9. Map of Source Showing Location of Fugitive Dust Sources and Pollution Control Equipment:

Site map attached
QUALITY SYSTEM CERTIFICATE
Nº 026

THIS IS TO CERTIFY THAT THE QUALITY ASSURANCE SYSTEM OF THE COMPANY
WAM S.p.A.

Via Cavour, 338 - Ponte Motta MO
ITALY

CONFORMS TO THE
ISO 9001-94 STANDARD

FOR THE FOLLOWING PRODUCTS/SERVICES:
TUBULAR SCREW CONVEYORS AND FEEDERS, TROUGH SCREW CONVEYORS AND FEEDERS, DUST COLLECTORS, VALVES, MICROBATCH FEEDERS, PRESSURE RELIEF VALVES, ACCESSORIES FOR SILOS

This certificate consists of 2 pages. The enclosed data sheet supplies details on the field of application. The continuance of possession of the certification is dependent upon the observance of CERMET regulations.

General Manager
Rodolfo Trippodo, Engineer

Certificate issuance date: 1994-07-12
Last modification date: 1999-11-09
Following renewal date: 2002-07-12

CERMET - 40068 S. Lazzaro di Savena (BO), Via Aldo Moro 22
00181 Roma, Via delle Cave 42
10090 Rivoli Cascine Vica (TO), Via Carlo Ferrero 118
CERTIFICATE

Company Name: WAM Spa.
Address: via cavour 338, ponte motta, cavezzo (Modena) Italy.

Under its own responsibility Declares that:

>>> C E CONFORMITY DECLARATION <<<

The following products are manufactured according to:

Executive Council of June 24, 1989 (89/392/EEC)
and complies with the following normatives: EN 292  EN 294  EN 349  EN 418  pr EN618

Product:

- Screw (Conveyor or feeder)
- Micro Batch Feeder
- Silo Safety Valve
- Bin / Level indicator
- Dust Filter (Fabric & Cartridge media)
- Percussion Flow Aids
- Continuous Mixer

Warning: ITEMS MUST NOT BE RUN INDEPENDENTLY (i.e., before proper installation)
SILOTOP®
Series R01

- SILO VENTING FILTERS
  TECHNICAL CATALOGUE

- SILO-ENTSTÄUBUNGSFILTER
  TECHNISCHER KATALOG

- FILTRES DEPOUSSIEREURS POUR SILOS
  CATALOGUE TECHNIQUE

- FILTRI DEPOLVERATORI PER SILI
  CATALOGO TECNICO

CATALOGUE CODE: 03505.02.T

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<td>01.01</td>
<td>100</td>
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<td>INHALTSVERZEICHNIS</td>
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<tr>
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<td>-------------------</td>
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<tr>
<td>T.01.-</td>
<td>INTRODUCTION</td>
<td>EINFÜHRUNG</td>
</tr>
<tr>
<td>T.02.-</td>
<td>DESCRIPTION</td>
<td>BESCHREIBUNG</td>
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<td>STANDARD SUPPLY</td>
<td>STANDARD- LIEFERUMFANG</td>
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<tr>
<td>T.04.-</td>
<td>ACCESSORIES</td>
<td>ZUBEHÖR</td>
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<td>T.05.-</td>
<td>DIMENSIONS</td>
<td>ABMESSUNGEN</td>
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<td>T.06.-</td>
<td>ORDER CODES</td>
<td>BESTELL- CODES</td>
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<td>T.07.-</td>
<td>TECHNICAL CHARACTERISTICS</td>
<td>TECHNISCHE MERKMALE</td>
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<td>T.08.-</td>
<td>FINISHING</td>
<td>FINISH</td>
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<td>ZUBEHÖR</td>
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<tr>
<td>T.10.-</td>
<td>PACKAGING AND WEIGHTS</td>
<td>VERPACKUNGEN UND GEWICHTE</td>
</tr>
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</table>
All products described in this catalogue are manufactured according to WAM S.p.A. Quality System procedures.

The company's Quality System, certified in July 1994 according to International Standards UNI EN ISO 9002:94, and subsequently extended to International standards UNI EN ISO 9001:94 in November 1999, ensures that the entire production process, starting from the processing of the order to the technical service after delivery, is carried out in a controlled manner that guarantees the quality standard of the product.


Tous les produits décrits dans ce catalogue ont été réalisés selon les modalités opérationnelles définies Système de Qualité de WAM S.p.A.

Le système de Qualité de l'entreprise, certifié au mois de juillet 1994 conformément aux Normes Internationales UNI EN ISO 9002:94 et successivement étendu aux normes internationales UNI EN ISO 9001:94 en novembre 1999, est en mesure de garantir que le procédé entier de production, à partir de la formulation de la commande jusqu’au service technique après la livraison, est effectué de manière contrôlée et appropriée afin de garantir le standard de qualité du produit.

Tutti i prodotti descritti in questo catalogo sono stati realizzati secondo modalità operative definite Sistema Qualità di WAM S.p.A.


Possible deviations due to modifications and/or manufacturing tolerances reserved.

Abweichungen infolge Änderungen und/oder aufgrund von Fertigungstoleranzen sind vorbehalten.

Nous nous réservons des écarts éventuels dus des modifications et/ou des tolérances d’usinage.

Ci riserviamo eventuali scostamenti dovuti a modifiche e/o tolleranze di lavorazione.
<table>
<thead>
<tr>
<th>MACHINE CODE</th>
<th>INTRODUCTION</th>
<th>EINFÜHRUNG</th>
<th>INTRODUCTION</th>
<th>INTRODUZIONE</th>
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<tr>
<td>- SMILOTOP®R01</td>
<td>- SILOTOP®R01</td>
<td>- SILOTOP®R01</td>
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<th>CODE MACHINE</th>
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<th>CODE MACHINE</th>
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<tbody>
<tr>
<td>- FLANGED CIRCULAR DE-DUSTING VENTING FILTER WITH COMPRESSED AIR CLEANING</td>
<td>- SILOTOP®R01</td>
<td>- SILOTOP®R01</td>
<td>- SILOTOP®R01</td>
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<td>MASCHINENTYP</td>
<td>CODE MACHINE</td>
<td>TYPE MACHINE</td>
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<tr>
<td>- SILOTOP®R01</td>
<td>- GEFLANSCHTES ENTSTABUNGSMFILTER MIT RUNDGEHäUSE UND DRUCKLUFTABREINIGUNG</td>
<td>- SILOTOP®R01</td>
<td>- FILTRE DEPOUSSIEREUR CIRCULAIRE AVEC RACCORD ET NETTOYAGE A AIR COMPRISE</td>
<td>- SILOTOP®R01</td>
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<tr>
<th>USE</th>
<th>BETRIEBSFUNKTION</th>
<th>FONCTION D'UTILISATION</th>
<th>FUNZIONE D'USO</th>
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</thead>
<tbody>
<tr>
<td>- SILOTOP® R01 is a circular filter designed for venting silos used for storing cement. In view of its features, this filter can also be used for many other venting type applications.</td>
<td>- SILOTOP® R01 ist ein Rundfilter, welches zur Entstaubung von Zementsilos entwickelt wurde. Angesichts seiner Eigenschaften kann es für diverse andere Anwendungen eingesetzt werden.</td>
<td>- SILOTOP®R01 est un filtre circulaire conçu pour le dépoussiérage des silos à ciment. Ses caractéristiques particulières le rendent approprié à de multiples autres applications de type éventage.</td>
<td>- SILOTOP®R01 è un filtro circolare sviluppato per la depolverazione dei silos per cemento. Viste le sue caratteristiche può essere pure usato per molte altre applicazioni tipo &quot;venting&quot;.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OPERATING TEMPERATURES</th>
<th>BETRIEBSTEMPERATUR</th>
<th>TEMPERATURE DE TRAVAIL</th>
<th>TEMPERATURE DI LAVORO</th>
</tr>
</thead>
<tbody>
<tr>
<td>-20° C / +80° C</td>
<td>-20° C / +80° C</td>
<td>-20° C / +80° C</td>
<td>-20° C / +80° C</td>
</tr>
</tbody>
</table>
SILOTOP® R01 is a circular venting filter entirely made of 304 stainless steel (except for the seal frame which is made from surface-treated carbon steel), with a flanged body that makes it possible to fix the filter to a silo using a set of 24 bolts.

The cleaning of the POLYPLEAT® elements (see description on page 03505.01.M.13.04) is brought about by an innovative blowing system with full immersion solenoid valves and the blowing pipes directly connected to the air reservoir itself. The cleaning system is completely built into the weather protection cover in such a way as to reduce the overall dimensions and the maintenance time required.

The equipment is not designed for operating in hazardous conditions or with dangerous materials; therefore, when the equipment is to be used in these conditions, it is necessary to advise the Manufacturer.

- Materials considered as hazardous are: explosive, toxic, flammable, harmful and/or similar materials.

SILOTOP® R01 is a Rundfilter, welches (abgesehen von der Filterelementbehälterungsklappe aus Edelstahl 1.4301 gefertigt ist. Das geflanschte Gehäuse ermöglicht die Befestigung am Silo mittels 24 Schrauben.


Das Abreinigungssystem ist völlig in die Wetterschutzgehäuse integriert, um Platzbedarf und Wartungsaufwand zu minimieren.

Le machine n'a pas été projetée pour travailler dans des conditions ou avec des matières dangereuses; si la machine doit répondre à ces exigences le constructeur doit en être obligatoirement informé.

- Als gefährliche Materialien werden betrachtet: explosive, giftige, feuergiftige, schädliche und/oder ähnliche Produkte.

Le machine n'a pas été projetée pour travailler dans des conditions ou avec des matières dangereuses; si la machine doit répondre à ces exigences le constructeur doit en être obligatoirement informé.

- Matières considérées dangereuses: explosives, toxiques, inflammables, nocives ou similaires.

SILOTOP® R01 est un filtre circulaire entièrement réalisé en inox AISI 304 (excepté la plaque porte-éléments) avec un corps raccordé par bride qui permet la fixation au silo au moyen de 24 boulons.

Le nettoyage des éléments POLYPLEAT® (Vedere descrizione a pag. 03505.01.M.13.04) est réalisé par un système de décolmatage novateur à électro-vannes "full immersion" et les tubes de décolmatage reliés directement au réservoir.

Le système de nettoyage est complètement intégré dans le couvercle de manière à réduire au maximum les encombraments et la durée de l'entretien.

- Si ritengono materiali pericolosi: materiali esplosivi, tossici, infiammabili, nocivi e/o simili.

Unless otherwise specified, all the dimensions are given in millimetres.

Wenn nicht anders angegeben, alle Maßangaben in Millimetern.

Sauf indication contraire, toutes les dimensions sont exprimées en millimètres.

Se non specificato altri-menti, tutte le dimensioni sono in millimetri.
<table>
<thead>
<tr>
<th>ITEM POS.</th>
<th>DESCRIPTION</th>
<th>BENENNUNG</th>
<th>DESIGNATION</th>
<th>DENOMINAZIONE</th>
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<tbody>
<tr>
<td>01</td>
<td>STANDARD WEATHER PROTECTION COVER</td>
<td>STANDARD-WETTERHAUBE</td>
<td>CAPOT PARAPLIE</td>
<td>COPERCHIO PARAPIoggia</td>
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<tr>
<td>02</td>
<td>CLEANING SYSTEM</td>
<td>ABREINUNGSSYSTEM</td>
<td>SYSTEME DE NETTOYAGE</td>
<td>SISTEMA DI PULIZIA</td>
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<td>03</td>
<td>ELECTROVALVES</td>
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<td>ELECTROVANNE</td>
<td>ELETTROVALVOLA</td>
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<td>SEAL FRAME</td>
<td>ELEMEINTE-</td>
<td>DISQUE</td>
<td>PIASTRA</td>
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<td>PORTA ELEMENTI</td>
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<td>INSPEKTIONSTÜR</td>
<td>TRAPPE DE VISITE</td>
<td>BOCCAPORTO DI ISPEZIONE</td>
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<td>06</td>
<td>FILTER BODY</td>
<td>FILTERGEHÄUSE</td>
<td>CORPS FILTRE</td>
<td>CORPO FILTRO</td>
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<tr>
<td>07</td>
<td>DRAIN POINT</td>
<td>KONDENSWASSER-ABLAASSHANN</td>
<td>ROBINET DECHARGE CONDENSANT</td>
<td>RUBINETTO SCARICO CONDENSA</td>
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| 08       | "POLYPLEAT" FILTER ELEMENT | "POLYPLEAT" FILTERELEMENT  | ELEMENT FILTRANTE "POLYPLEAT" | ELEMENTO FILTRANTE "POLYPLEAT"

ALL THE STANDARD NUTS AND BOLTS ARE MADE OF DACROMET.
ALLE STANDARDVERSCHRAUBUNGEN SIND AUS DACROMET.
TOUTE LA BOULONNERIE STANDARD EST EN DACROMET.
TUTTA LA BULLONERIA STANDARD E IN DACROMET.
<table>
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<tr>
<td>04</td>
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<td>WINTERSCHUTZ</td>
<td>PROTECTION HIVER</td>
<td>PROTEZIONE INVERNALE</td>
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<td>05</td>
<td>FLANGE AISI 304 NUTS &amp; BOLTS KIT</td>
<td>SATZ FLANSCHSCHAUBEN AUS EDELSTAHL 1.4301</td>
<td>KIT BOULONNERIE BRIDE EN AISI 304</td>
<td>KIT BULLONERIA FLANGIA IN AISI 304</td>
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<td>FILTER AISI 304 NUTS &amp; BOLTS KIT</td>
<td>SATZ FILTERSCHRAUBEN AUS EDELSTAHL 1.4301</td>
<td>KIT BOULONNERIE FILTRE EN AISI 304</td>
<td>KIT BULLONERIA FILTRO IN AISI 304</td>
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* ONLY FOR MAINTENANCE
* NUR FÜR WARTUNG
* SEULEMENT POUR ENTRETIEN
* SOLO PER MANUTENZIONE

<table>
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<tr>
<th>CODE</th>
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<th>FILTER SURFACE</th>
<th>NBR. SOLENOID VALVES</th>
<th>COMP. AIR CONSUM.</th>
<th>NOISE</th>
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<tr>
<td>SILOTOP® R01</td>
<td>7</td>
<td>24.5 m²</td>
<td>3</td>
<td>4.5 Nm³/h</td>
<td>75 dB(A)</td>
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**DIMENSIONS**

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<th>Value</th>
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<td>608</td>
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</table>

**Sax A-A**

- $10 \times N'24$
PRESSURE DIFFERENTIAL METER
DRUCKDIFFERENZMESSER
DEBITMETRE À VARIATION DE PRESSION
MISURATORE DIFFERENZIALE DI PRESSIONE

+ = without - ohne - sans - senza (STD)
H = Pressure meter (MDPC)
Druckdifferenzmesser (MDPC)
Débitmètre à variation de pression (MDPC)
Misuratore differenziale di pressione (MDPC)
V = Electronic pressure meter (MDPEC)
Elektronischer Druckdifferenzmesser (MDPEC)
Débitmètre électronique à variation de pression (MDPEC)
Misuratore differenziale di pressione elettronico (MDPEC)

WINTER PROTECTION
WINTERSCHUTZ
PROTECTION HIVER
PROTEZIONE INVERNALE

+ = without - ohne - sans - senza (STD)
W = Winter protection
Winterschutz
Protection hiver
Protezione invernale

FILTER NUTS & BOLTS KIT
SATZ FILTERSCHRAUBEN
KIT BOULONNERIE FILTRE
KIT BULLONERIA FILTRO

+ = DACROMET (STD)
2 = AISI 304 (1.4301)

FLANGE NUTS & BOLTS KIT
SATZ FLANSCH SCHRAUBEN
KIT BOULONNERIE BRIDE
KIT BULLONERIA FLANGIA

+ = DACROMET (STD)
2 = AISI 304 (1.4301)
### Operating Conditions

The SILOTOP® R01 model venting filters function under the following operating conditions:

1) **Maximum permitted temperature:**

   **Positive:**
   - 80°C continuous
   - 100°C peak

   **Negative:**
   - -20°C

2) **Maximum permitted pressure:**

   **Positive:**
   - 500 mmH₂O (0.05 bar - 5 kPa)

   **Negative:**
   - 500 mmH₂O (0.05 bar - 5 kPa)

### Einsatz Einschränkungen

Die Filter der Modellreihe SILOTOP® R01 funktionieren unter den folgenden Betriebsbedingungen:

1) **Höchstzulässige Temperaturen:**

   **Positive:**
   - 80°C Dauerwert
   - 100°C Spitzenwert

   **Negative:**
   - -20°C

2) **Höchstzulässiger Druck:**

   **Positive:**
   - 500 mmH₂O (0.05 bar - 5 kPa)

   **Negative:**
   - 500 mmH₂O (0.05 bar - 5 kPa)

### Limites d'Emploi

Les filtres SILOTOP® R01 exercent leur fonction d'utilisation dans le respect des limites d'emploi suivantes:

1) **Temp. maxi admissibles:**

   **Positive:**
   - 80°C en continu
   - 100°C de pic

   **Negative:**
   - -20°C

2) **Pression maxi admissible:**

   **Positive:**
   - 500 mmH₂O (0.05 bar - 5 kPa)

   **Negative:**
   - 500 mmH₂O (0.05 bar - 5 kPa)

### Limiti di Impiego

I filtri modello SILOTOP® R01 esercitano la loro funzione d'uso nel rispetto dei seguenti limiti di impiego:

1) **Temperature massime ammissibili:**

   **Positiva:**
   - 80°C in continuo
   - 100°C di picco

   **Negative:**
   - -20°C

2) **Pressione massima ammissibile:**

   **Positiva:**
   - 500 mmH₂O (0.05 bar - 5 kPa)

   **Negative:**
   - 500 mmH₂O (0.05 bar - 5 kPa)
The SILOTOP® R01 Venting Filter is provided with seven POLYPLEAT® filter elements. These elements are parallelepiped-shaped and the dimensions are as shown in the diagram above; the filtering medium is a non-woven pleated spun-bonded fleece. The total filtering surface is 24.5m².

Im SILOTOP® R01 Filter befinden sich sieben POLYPLEAT® Filterelemente. Diese Elemente haben die Form eines Parallelschnitts in oben gezeigten Abmessungen. Das Filter besteht aus einem plissierten Vlies. Die Gesamtfilterfläche beträgt 24,5 m².

Dans le filtre SILOTOP® R01 il sont montés sept éléments filtrants POLYPLEAT®. Ces éléments ont la forme d'un parallélépipède dont les dimensions sont indiquées dans le dessin ci-joint, le filtre est en tissu non-tissu plissé. La surface filtrante est de 24,5 m² au total.

Nel filtro SILOTOP® R01 sono installate sette elementi filtranti POLYPLEAT®. Tali elementi hanno la forma di un parallelepipedo avente dimensioni come dal disegno sopra riportato, il media filtrante è un tessuto non tessuto plissato. La superficie filtrante è di 24,5 m² totali.
The cover is made of 1.2mm thick AISI 304 stainless steel with 2B-type finishing. The snap hook is also made of AISI 304, and can be pad-locked.
The hinges are fitted with a safety system comprising a catch, which automatically blocks the cover open. It must be released manually to close the cover.

Die Haube besteht aus 1.2 mm starkem Blech aus Edelstahl 1.4301 mit Finish 2B. Der Schnellverschluß besteht ebenfalls aus Edelstahl 1.4301 und kann mittels Vorhängeschloß gesichert werden.
Die Scharniere haben eine Arretierung, welche die Haube automatisch in der offenen Position blockiert. Zum Schließen der Haube muß die Arretierung von Hand entriegelt werden.

Le capot est réalisé en inox AISI 304 de 1.2 mm d'épaisseur avec finition 2B. Le crochet de fermeture, lui aussi en inox AISI 304, est verrouillable.
Les charnières sont dotées d'un système de sécurité réalisé avec un crochet qui bloque automatiquement le capot dans la position ouverte. Il faut le débloquer manuellement pour le refermer.

Il coperchio è realizzato in AISI304 spessore 1,2mm con finitura 2B. Il gancio di chiusura, anch' esso in AISI304, è lucchettabile.
Le cerniere sono dotate di un sistema di sicurezza realizzato con un gancio che automaticamente blocca il coperchio in posizione aperta. Occorre sbloccarlo manualmente per richiuderlo.
### Controller

**ELEKTRONISCHE STEUERUNG**  
**CARTE ELECTRONIQUE**  
**SCHEDA ELETTRONICA**

<table>
<thead>
<tr>
<th>V (AC)</th>
<th>I max (mA)</th>
<th>Pass. (VA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>230</td>
<td>130</td>
<td>30</td>
</tr>
</tbody>
</table>

#### Timer Setting

**TAKTEINSTELLUNG**  
**TEMPORISATION**  
**TEMPORIZZAZIONI** (sec)

<table>
<thead>
<tr>
<th>Tp</th>
<th>Ts</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIN.</td>
<td>MAX.</td>
</tr>
<tr>
<td>5</td>
<td>90</td>
</tr>
</tbody>
</table>

The controller has the function of controlling the filter element cleaning cycle. It can be piloted with different voltages (see Table above), and it is possible to set the time between one blowing cycle and the next (Tp), as well as the solenoid valve opening time (Ts) as shown in the Table above. The voltage for piloting the coil is 24 V (a.c.).

Die elektronische Steuerung hat die Funktion, den Abreinigungszyklus der Filterelemente zu steuern. Die Steuerung kann mit verschiedenen Spannungen gespeist werden (siehe Tabelle oben). Es ist möglich, die Zeit zwischen einem Luftstoß und dem nachfolgenden (Tp) sowie die Öffnungszeit des Magnetventils (Ts) gemäß obiger Tabelle zu programmieren.

Die Vorsteuerspannung der Spule beträgt 24 V (WS).

La carte électronique a la fonction de contrôler le cycle de nettoyage des éléments filtrants. La carte peut être pilotée à différentes tensions (cf. tableau ci-dessous). Il est possible de programmer le temps entre deux impulsions (Tp) et le temps d’ouverture de l’électrovanne (Ts), selon le tableau ci-dessus.

La tension de pilotage de la bobine est à 24 V (CA).

La scheda elettronica ha la funzione di controllare il ciclo di pulizia dell’elemento filtrante. La scheda può essere pilotata con diverse tensioni (vedi tabella sopra) ed è possibile impostare il tempo tra uno sparo ed il successivo (Tp) ed il tempo di apertura dell’elettrovalvola (Ts), secondo la tabella sopra.

La tensione con cui viene pilotata la bobina è 24 V (CA).
The filter body is made of 1mm thick AISI 304 stainless steel.

The standard supply also includes a flange gasket and a kit containing nuts and bolts made of DACROMET for fixing the filter.

Das Filtergehäuse besteht aus 1 mm starkem Edelstahl 1.4301.

Das Lieferumfang gehört auch eine Flanschdichtung sowie ein Schrauben- und Mutternsatz aus DACROMET zur Befestigung auf der Silozarge.

Le corps filtre paraplui est réalisé en inox AISI 304 épaisseur 1 mm.

La fourniture standard prévoit aussi la garniture entre corps et bride et le kit des boulons et écrous en DACROMET pour la fixation du filtre sur le silo.

Il corpo filtro è realizzato in AISI 304 spessore 1 mm.

La fornitura STD prevede anche la guarnizione fra corpo e flangia e il kit di bulloni e dadi in DACROMET per il fissaggio del filtro sul silo.
### BLOWING UNIT

The blowing unit comprises a solenoid valve (1) fitted directly inside the compressed air reservoir (2) in such a way as to reduce load loss to a minimum. The blowing pipes (3), made of aluminium vulcanised in technopolymer, are in turn connected to the reservoir by means of interfaces which are also made of technopolymer (4). The aluminium reservoir anodised externally, has two heads (5) also made of aluminium with black opaque electrophoresis treatment, on which the air inlet tube (6) and condensate drainage pipe are fitted (7).

### ABREINIGUNGSEINHEIT

Sie besteht aus dem Magnetventil (1), das direkt im Druckluftspeicher (2) eingebaut ist, um die Stromungsverluste zu minimieren. Die Abreinigungsrohre (3) aus Aluminium mit Vulkanisierung aus Polymer sind mit Verbindungsteilen ebenfalls aus Polymer (4) am Druckluftspeicher befestigt. Der Druckluftspeicher aus außen eloxiertem Aluminium mit zwei Köpfen (5) ebenfalls aus Aluminium, jedoch mittels Kataphorese mattschwarz behandelt, auf dem der Luftinnenschnabel (6) und der Kondenswasser-Abflußhahn montiert sind (7).

### GROUPE DE DECOLMATAGE

Constitué par l’électrovanne (1) montée directement à l’intérieur du réservoir d’air comprimé (2) pour réduire les pertes de charge au minimum. Les tubes de décolmatage (3) en aluminium avec vulcanisation en polymère technique, sont à leur tour reliés au réservoir à travers une interface elle aussi en polymère technique (4). Le réservoir en aluminium anodisé à l’extérieur avec les deux têtes (5), elles aussi en aluminium, traitées par cataphorèse noir opaque, sur lequel sont insérés le robinet d’air (6) et de décharge de l’eau de condensation (7).

### GRUPPO DI SPARO

È costituito dall’ elettrovanne (1) montata direttamente all’interno del serbatoio dell’ aria compressa (2) in modo da ridurre al minimo le perdite di carico. I tubi di sparo (3) in alluminio con vulcanizzazione in tecnopolimero, sono a loro volta collegati al serbatoio tramite interfaccia anch’essa in tecnopolimero (4). Il serbatoio d’alluminio esternamente anodizzato con le due teste (5) anch’esse in alluminio con trattamento di cataforosi nera opaca, su cui sono inseriti il rubinetto di ingresso aria (6) e quello per lo scarico condensa (7).

### Table: Air Reservoir Volume and Characteristics

<table>
<thead>
<tr>
<th>AIR RESERVOIR VOLUME</th>
<th>COMPRRESSED AIR CONSUMPTION</th>
<th>NOISE</th>
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</thead>
<tbody>
<tr>
<td>VOLUMEM DRUCKLUFTSPEICHER VOLUME SERBATOIO</td>
<td>DRUCKLUFTVERBRANCHE CONSUMO ARIA COMP.</td>
<td>BETRIEBSGERÄUSCHE RUYANCE RUMOROSITÀ</td>
</tr>
<tr>
<td><strong>P max</strong></td>
<td>*** Nm³/h**</td>
<td><strong>dB(A)</strong></td>
</tr>
<tr>
<td>1 bar</td>
<td>4.5</td>
<td>75</td>
</tr>
</tbody>
</table>

*Measured with: Tp=28 sec Tσ=0.1 sec P=6 bar*
The seal frame is made of 6mm thick carbon steel, RAL 7001 (silver grey) powder-coated and fitted with a grille to prevent entry of foreign bodies. The lifting eyebolts can be removed after the filter has been installed.


La plaque porte-élément est réalisée en acier de 6 mm d’épaisseur, peint aux poudres RAL 7001 (gris argent) et elle est dotée d’une grille pour éviter l’entrée de corps étrangers. Les ceillets de levage peuvent être déposés après l’installation.

La piastra portaelementi è realizzata in acciaio al carbonio spessore 6 mm, verniciato a polvere RAL 7001 (grigio argento) ed è dotata di una griglia per evitare l’ingresso di corpi estranei. I golfi per il sollevamento sono removibili dopo l’installazione.
<table>
<thead>
<tr>
<th>PART</th>
<th>MATERIAL</th>
<th>FINISHING</th>
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</thead>
<tbody>
<tr>
<td>WEATHER PROT. COVER</td>
<td>AISI 304 st. st. (1.2mm thick)</td>
<td>2B (UNI EN 10088-2/4-1995)</td>
</tr>
<tr>
<td>AIR RESERVOIR</td>
<td>ALUMINIUM (3mm thick)</td>
<td>LIGHT ANODIZED</td>
</tr>
<tr>
<td>AIR RESERVOIR HEAD</td>
<td>ALUMINIUM</td>
<td>OPAQUE BLACK ELECTROPHORESIS</td>
</tr>
<tr>
<td>L.E.V.® System</td>
<td>ALUMINIUM</td>
<td>OPAQUE BLACK ELECTROPHORESIS</td>
</tr>
<tr>
<td>BLOWING UNIT</td>
<td>ALUMINIUM + TECHNOPOLYMER</td>
<td>RAL 7001 (silver gray) POWDER-COATED</td>
</tr>
<tr>
<td>POLYPLEAT®</td>
<td>POLYPLEAT® + TECHNOPOLYMER</td>
<td></td>
</tr>
<tr>
<td>SEAL FRAME</td>
<td>CARBON STEEL (6 mm thick)</td>
<td></td>
</tr>
<tr>
<td>BODY</td>
<td>AISI 304 st. st. (1mm thick)</td>
<td>2B (UNI EN 10088-2/4-1995)</td>
</tr>
<tr>
<td>INSPECTION DOOR</td>
<td>AISI 304 st. st. (1.5mm thick)</td>
<td>2B (UNI EN 10088-2/4-1995)</td>
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</table>

<table>
<thead>
<tr>
<th>KOMPONENTE</th>
<th>WERKSTOFF</th>
<th>FINISH</th>
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<tr>
<td>WETTERHAUBE</td>
<td>Edelstahl 1.4301 (Stärke 1,2 mm)</td>
<td>2B (UNI EN 10088-2/4-1995)</td>
</tr>
<tr>
<td>DRUCKLUFTBEHÄLTER</td>
<td>ALUMINIUM (Stärke 3 mm)</td>
<td>HELF ELOXIERT</td>
</tr>
<tr>
<td>DRUCKLUFTBEHÄLTERKÖPFE</td>
<td>ALUMINIUM</td>
<td>MATT SCHWARZE KATAPHORESE</td>
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<tr>
<td>L.E.V.® System</td>
<td>ALUMINIUM</td>
<td>MATT SCHWARZE KATAPHORESE</td>
</tr>
<tr>
<td>ABREINIGUNGSEINHEIT</td>
<td>ALUMINIUM + POLYMER</td>
<td></td>
</tr>
<tr>
<td>POLYPLEAT®</td>
<td>POLYPLEAT® + POLYMER</td>
<td></td>
</tr>
<tr>
<td>ELEMENTHALTERUNGSPLATTE</td>
<td>Stahl (Stärke 6 mm)</td>
<td>ANSTRICH RAL 7001(silbergrau)</td>
</tr>
<tr>
<td>GEHÄUSE</td>
<td>Edelstahl 1.4301 (Stärke 1 mm)</td>
<td>2B (UNI EN 10088-2/4-1995)</td>
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<tr>
<td>INSPEKTIONSKLAPPE</td>
<td>Edelstahl 1.4301 (Stärke 1.5 mm)</td>
<td>2B (UNI EN 10088-2/4-1995)</td>
</tr>
<tr>
<td>COMPOSANT</td>
<td>MATIERE</td>
<td>FINITION</td>
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<tr>
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<td>---------------------------------</td>
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<tr>
<td>CAPOT PARAPLUIE</td>
<td>Inox AISI 304 (épaisseur 1,2 mm)</td>
<td>2B (UNI EN 10088-2/4-1995)</td>
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<tr>
<td>RESERVOIR AIR COMPRIME</td>
<td>ALUMINIUM (épaisseur 3 mm)</td>
<td>ANODISE CLAIR</td>
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<tr>
<td>TETES RESERVOIR</td>
<td>ALUMINIUM</td>
<td>CATAPHORESE NOIR OPAQUE</td>
</tr>
<tr>
<td>L.E.V. System</td>
<td>ALUMINIUM</td>
<td>CATAPHORESE NOIR OPAQUE</td>
</tr>
<tr>
<td>GROUPE DE DECOLMATAGE</td>
<td>ALUMINIUM + POLYMERE</td>
<td></td>
</tr>
<tr>
<td>POLYPEAT®</td>
<td>POLYPEAT® + POLYMERE</td>
<td></td>
</tr>
<tr>
<td>PLAQUE</td>
<td>ACIER (épaisseur 6 mm)</td>
<td>PEINTURE RAL 7001 (gris argent)</td>
</tr>
<tr>
<td>CORPS</td>
<td>Inox AISI 304 (épaisseur 1,5 mm)</td>
<td>2B (UNI EN 10088-2/4-1995)</td>
</tr>
<tr>
<td>TRAPPE DE VISITE</td>
<td>Inox AISI 304 (épaisseur 1,5 mm)</td>
<td>2B (UNI EN 10088-2/4-1995)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>COMPONENTE</th>
<th>MATERIALE</th>
<th>FINITURA</th>
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<tbody>
<tr>
<td>COPERCHIO ANTIPIOGGIA</td>
<td>AISI 304 (Spessore 1,2 mm)</td>
<td>2B (UNI EN 10088-2/4-1995)</td>
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<tr>
<td>SERBATOIO ARIA COMPRESSA</td>
<td>ALUMINIO (Spessore 3 mm)</td>
<td>ANODIZZATO CHIARO</td>
</tr>
<tr>
<td>TESTATE SERBATOIO</td>
<td>ALUMINIO</td>
<td>CATAFORSI NERA OPACA</td>
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<tr>
<td>L.E.V. System</td>
<td>ALUMINIO</td>
<td>CATAFORSI NERA OPACA</td>
</tr>
<tr>
<td>GRUPPO DI SPARO</td>
<td>ALUMINIO + POLIMERO</td>
<td></td>
</tr>
<tr>
<td>POLYPEAT®</td>
<td>POLYPEAT® + POLIMERO</td>
<td></td>
</tr>
<tr>
<td>PIASTRA PORTA-ELEMENTI</td>
<td>ACCIAIO AL CARBONO (spessore 6 mm)</td>
<td>VERNICIATO RAL7001 (grigio argento)</td>
</tr>
<tr>
<td>CORPO</td>
<td>AISI 304 (spessore 1 mm)</td>
<td>2B (UNI EN 10088-2/4-1995)</td>
</tr>
<tr>
<td>PORTELO D'ISPEZIONE</td>
<td>AISI 304 (spessore 1,5 mm)</td>
<td>2B (UNI EN 10088-2/4-1995)</td>
</tr>
</tbody>
</table>
**PRESSURE DIFFERENTIAL METER**
Important measuring instrument for monitoring of the cleanliness of the filter elements.

Instrument used for measuring pressure differentials. It is applied between the "dirty" part and the "clean" part of the filter, and gives an idea regarding the extent of blockage of the filter elements.

Operating range:
-300 mmH₂O (0.03 bar - 3 kPa)
+300 mmH₂O (0.03 bar - 3 kPa)

**DRUCKDIFFERENZMesser**
Wichtiges Instrument zur Überwachung des Reinigungsgrad des Filters.

Wird zur Messung der Druckdifferenz zwischen der Rohgas- und der Reingasseite des Filters angebracht und liefert Angaben über Verschmutzungsgrad der Filterelemente.

Betriebsbereich:
-300 mmH₂O (0.03 bar - 3 kPa)
+300 mmH₂O (0.03 bar - 3 kPa)

**DEBITMETER A VARIATION DE PRESSION**
Instrument de mesure indispensable pour contrôler le degré de propreté du filtre.

Instrument de mesure de la variation de la pression. Appliqué entre la partie "souillée" et "propre" du filtre, il fournit une indication sur l'état de coïncadage des éléments filtrants.

Plage de fonctionnement:
-300 mmH₂O (0.03 bar - 3 kPa)
+300 mmH₂O (0.03 bar - 3 kPa)

**MISURATORE DIFFERENZIALE DI PRESSIONE**
Strumento indispensabile per poter monitorare il grado di pulizia del filtro.

Strumento per la misura del differenziale di pressione. Applicato tra la parte "sporca" e quella "pulita" del filtro fornisce una indicazione dello stato di intasamento degli elementi filtranti.

Campo di funzionamento:
-300 mmH₂O (0.03 bar - 3 kPa)
+300 mmH₂O (0.03 bar - 3 kPa)
Conceived as compressed air "economisers" used for cleaning of elements, the MDPE model is a gauge for measuring pressure differences. It is possible to preset the operating threshold value from a minimum of 30 mH₂O (0.5 kPa) to a maximum of 500 mH₂O (5 kPa). The lower threshold value (the value at which cleaning ends) can also be preset.

Indicates the differential pressure reading through a 3-digit display. By setting the two operating pressure thresholds (minimum and maximum), the user can make the cleaning cycle work only when it is actually necessary.

The LEDs also indicate pressure differences. Each LED indicates a value equal to 1/9 of the lowest value on the scale (e.g.: when this value is set at 300 mH₂O, each LED represents a pressure difference of 33.3 mH₂O.

The Druckdifferenzmesser MDPE wurde zur Einsparung der zum Abreinigen der Filter verwendeten Druckluft entwickelt.

Der Schwellenwert für das Ansprechverhalten des Geräts kann auf einen Bereich eingestellt werden, der zwischen 30 mm H₂O (0.5 kPa) und 500 mm H₂O (5 kPa) liegt. Auch der untere Schwellenwert (Wert, der die Abreinigung aktiviert) kann eingestellt werden.

MDPE gibt den Druckdifferenzwert über ein Display mit 3 Ziffern an. Durch Festlegung der beiden Druckwertschwellen (minimal und maximal) ist es möglich, eine regelmäßige Abreinigung des Filters nur dann vorzunehmen, wenn diese tatsächlich notwendig ist.

Die LED-Anzeigen geben ebenfalls die Druckdifferenz an.

Jede LED gibt einen Wert an, der 1/9 des Vollausschlages entspricht (z.B.: eingestellter Vollausschlag 300 mm H₂O - jede LED entspricht einer Druckdifferenz von 33.3 mm H₂O.

Conçu pour économiser l'air comprimé utilisé pour le nettoyage d'éléments, le modèle MDPE constitue un instrument de mesure des pressions différentielles. Il est possible d'établir une valeur du seuil d'intervention minimum de: 30 mmH₂O (0.5 kPa) jusqu'à 500 mmH₂O (5 kPa). Même le seuil inférieur (valeur à laquelle terminer le nettoyage) est programmable.

Il indique la valeur différentielle de la pression au moyen d'un écran à trois chiffres. Si l'on fixe les deux seuils de pression d'intervention (minimum et maximum) on ne peut faire fonctionner le nettoyage cyclique du filtre que quand cela est effectivement nécessaire. Même les diodes indique une valeur équivalent à 1/9 du fond d'échelle. Par exemple, si on établit une valeur de fond d'échelle de 300 mmH₂O, chaque voyant lumineux représente un différentiel de pression de 33.3 mmH₂O.

Nati quali "economizzatori" dell'aria compressa utilizzata per la pulizia elementi, il modello MDPE costituisce uno strumento di misura di pressioni differenziali: È possibile impostare il valore della soglia di intervento da un minimo di: 30 mmH₂O (0.5 kPa) sino a 500 mmH₂O (5 kPa). Anche la soglia inferiore (valore a cui terminare la pulizia) è preimpostabile.

Indica il valore di differenziale di pressione tramite un display a 3 cifre. Fissando le due soglie di pressione d'intervento (minima e massima) è possibile far funzionare la pulizia ciclica del filtro solo quando effettivamente necessario.

Pure i led indicano differenze di pressione. Ogni led indica un valore pari ad 1/9 del fondo scala. Es.: preimpostando 300 mmH₂O quale valore a fondoscala, ogni led rappresenta un differenziale di pressione di 33.3 mmH₂O.
### Connections

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<th>DESCRIPTION</th>
<th>BENENNUNG</th>
<th>DESIGNATION</th>
<th>DENOMINAZIONE</th>
</tr>
</thead>
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<td>01</td>
<td>Dirty air inlet pipe Ø 4mm</td>
<td>Einführung Rohgas</td>
<td>Entrée tube d'air souillé diam. 4 mm</td>
<td>Ingresso tubo aria sporca Ø 4mm</td>
</tr>
<tr>
<td>02</td>
<td>Clean air inlet pipe Ø 4mm</td>
<td>Einführung Reingas</td>
<td>Entrée tube d'air propre diam. 4 mm</td>
<td>Ingresso tubo aria pulita Ø 4mm</td>
</tr>
<tr>
<td>03</td>
<td>Voltage presence LED</td>
<td>Diode &quot;Spannung vorhanden&quot;</td>
<td>Diode présence tension</td>
<td>Led presenza tension</td>
</tr>
<tr>
<td>04</td>
<td>Pressure indicators LED</td>
<td>Dioden für Druckanzeige</td>
<td>Diode indicateurs de pression</td>
<td>Led indicatori di pressione</td>
</tr>
<tr>
<td>05</td>
<td>Pressure indicators LED</td>
<td>Dioden für Druckanzeige</td>
<td>Diode indicateurs de pression</td>
<td>Led indicatori di pressione</td>
</tr>
<tr>
<td>06</td>
<td>Cleaning status (On-Off) LED</td>
<td>Diode für Reinigungszustand (On-Off)</td>
<td>Diode état de nettoyage (On-Off)</td>
<td>Led stato di pulizia (On-Off)</td>
</tr>
<tr>
<td>07</td>
<td>Outside power supply or WAM controller (items J1, J2)</td>
<td>Von externen Stromversorger oder von WAM-Karte (Stellen J1, J2)</td>
<td>De l'alimentation extérieur ou de la carte WAM (points J1, J2)</td>
<td>Da alimentatore esterno o da Scheda WAM (punti J1, J2)</td>
</tr>
<tr>
<td>08</td>
<td>NO or NC contact</td>
<td>Öffner- oder Schließerkontakt</td>
<td>Contact normalement ouvert ou normalement fermé</td>
<td>Contatto normalmente aperto o normalmente chiuso</td>
</tr>
<tr>
<td>09</td>
<td>Controller regulation switch</td>
<td>Schalter für Einstellung der Karte</td>
<td>Interrupteur de réglage de la carte</td>
<td>Switch regolazione scheda</td>
</tr>
</tbody>
</table>

**Note:** The diagram shows connections with labels for each pin and some additional details about the components.
**FEATURES** | **DATA** | **NOTES**
--- | --- | ---
Supply voltage | 24 V AC ± 10% (21.6 - 26.4 Volt) | 230 V (AC) built-in power supply, on request
Operating temperature | -20°C / +80°C | |
Measuring range | 0 - 400 mm H₂O | |
Max. pressure | 0.1 bar | |
Max. capacity of NO, NC contact | 5 A 250 V (AC) or 30 V (DC) | |
Instrument precision | ± 1% | |
Box protection | IP 56 | |

**EIGENSCHAFTEN** | **DATEN** | **ANMERKUNGEN**
--- | --- | ---
Steuerspannung | 24 V (WS) ± 10% (21.6 - 26.4 Volt) | Wahlweise eingebautes Netzteil 230 V (WS)
Betriebstemperatur | -20°C / +80°C | |
Maßbereich | 0 - 400 mm H₂O | |
Max. Druck | 0,1 bar | |
Max. Fördermenge S, Ö-Kontakt | 5 A 250 V (WS) oder 30 V (GS) | |
Präzision des Geräts | ± 1% | |
Schutzgehäuse | IP 56 | |

**CARACTERISTIQUES** | **VALEURS** | **REMARQUES**
--- | --- | ---
Tension d’alimentation | 24 V (CA) ± 10% (21,6 - 26,4 V) | Alimentation incorporée sur demande à 230 V (CA)
Température de fonctionnement | -20°C / +80°C | |
Plage de mesure | 0 - 400 mm H₂O | |
Pression maximum | 0,1 bar | |
Débit max. contact NO, NF | 5 A 250 V (CA) ou 30 V (CC) | |
Précision de l’instrument | ± 1% | |
Protection carter | IP 56 | |

**CARATTERISTICHE** | **DATI** | **NOTE**
--- | --- | ---
Tensione di alimentazione | 24 V AC ± 10% (21,6 - 26,4 Volt) | A richiesta alimentatore incorporato 230 V (CA)
Temperature di funzionamento | -20°C / +80°C | |
campo di misura | 0 - 400 mm H₂O | |
Pressione max. | 0,1 bar | |
Portata max. contatto NO, NC | 5 A 250 V (CA) o 30 V (CC) | |
Precisione strumento | ± 1% | |
Protezione scatola | IP 56 | |
BOTTOM RING
Used to connect the filter with a hopper, silo etc. This connection is made by welding (see installation, cat. no. 2, page 05.02).

FINISHING:
- Carbon steel powder-coated RAL 7001 (silver grey)
- AISI 304 stainless steel

EINSCHWEISSZARGE
Die Zarge dient zum Einschweißen von Filtern in das Dach des Behälters oder Silos (siehe Seite 05.02 Kat. 2).

FINISH:
- Stahl pulverbeschichtet RAL 7001 (silbergrau)
- Edelstahl 1.4301

VIROLE SOUS FILTRE
Utilisée pour monter le filtre sur la trémie/silo.
Ce montage se fait par soudure (voir schéma d'installation page 05.02 cat. 2)

FINITION:
- Acier peint aux poudres RAL 7001 (gris argent)
- Inox AISI 304

ANELLO SOTTOFILTRO
Utilizzato per collegare filtri a tramoggia, silo e cella. Questo collegamento avviene tramite saldatura (vedi installazione cat. n. 2 pag. 05.02).

FINITURA:
- Fe verniciato a polvere RAL 7001 (grigio argento)
- Inox AISI 304

CODE Fe
UFN8001

CODE AISI 304
UFN8002
Winter protection is used if weather conditions so require. It consists of a suitably shaped "cap" made of technopolymer. The cap contains a thermostatically regulated heating element ($V_{in} = 110/220$ V-AC), which maintains the solenoid valve cover at a temperature of 50°C (122°F).

Der Winterschutz wird dann verwendet, wenn die Umweltbedingungen es erfordern. Er besteht aus einer speziell geformten Haube aus Technopolymer. Im Inneren befindet sich ein wärmegeregelter Widerstand ($V_{in} = 110/220$ V-WS), der die Temperatur des Elektromagnetventildeckels bei 50°C konstant hält.

La protection hivernale est utilisée lorsque les conditions ambiante la rendent nécessaire. Elle est formée d'un «capuchon» en technopolymère prévue à cet effet. Il y a une résistance thermostatisée ($V_{in} = 110/220$ V - CA) à l'intérieur qui maintient la température du couvercle électrovanne à 50°C.

La protezione invernale viene utilizzata qualora le condizioni ambientali lo richiedano. Tale protezione è costituita da un "cappuccio" in tecnopolimero appositamente formato. All'interno si trova una resistenza termoregolata ($V_{in} = 110/220$ V - CA) che mantiene la temperatura del coperchio elettrovalvola a 50°C.
AISI304 STAINLESS STEEL FLANGE NUTS & BOLTS KIT
FLANSCHSCHRAUBENSATZ AUS EDELSTAHL 1.4301
KIT BOULONNERIE BRIDE EN INOX AISI 304
KIT BULLONERIA FLANGIA IN ACCIAIO INOX AISI 304

The nuts and bolts supplied for attaching the filter flange are made of DACROMET. The attachment kit made from AISI 304 stainless steel may be purchased as an accessory.

CODE:

KBUFO8

AISI 304 STAINLESS STEEL FILTER NUTS & BOLTS KIT
FILTERSCHRAUBENSATZ AUS EDELSTAHL 1.4301
KIT BOULONNERIE FILTRE AISI 304
KIT BULLONERIA FILTRO AISI304

The filter nuts and bolts are made of DACROMET. The filter nuts and bolts kit from AISI 304 stainless steel may be purchased as an accessory.

CODE:

KBDC08
The packaging of the SILOTOP® R01 comprises a crate made of folding wooden panels.

The table provides the following data:

<table>
<thead>
<tr>
<th>CODE</th>
<th>WEIGHT</th>
<th>A x B x C</th>
</tr>
</thead>
<tbody>
<tr>
<td>SILOTOP® R01</td>
<td>102 kg</td>
<td>925 x 1010 x 1145 mm</td>
</tr>
<tr>
<td>PACKAGING</td>
<td>10 kg</td>
<td>1000 x 1100 x 1300 mm</td>
</tr>
<tr>
<td>TOTAL INSGESAMT</td>
<td>112 kg</td>
<td></td>
</tr>
</tbody>
</table>
What This Subpart Covers

§ 63.11110  What is the purpose of this subpart?

This subpart establishes national emission limitations and management practices for hazardous air pollutants (HAP) emitted from the loading of gasoline storage tanks at gasoline dispensing facilities (GDF). This subpart also establishes requirements to demonstrate compliance with the emission limitations and management practices.

§ 63.11111  Am I subject to the requirements in this subpart?

(a) The affected source to which this subpart applies is each GDF that is located at an area source. The affected source includes each gasoline cargo tank during the delivery of product to a GDF and also includes each storage tank.

(b) If your GDF has a monthly throughput of less than 10,000 gallons of gasoline, you must comply with the requirements in § 63.11116.

(c) If your GDF has a monthly throughput of 10,000 gallons of gasoline or more, you must comply with the requirements in § 63.11117.

(d) If your GDF has a monthly throughput of 100,000 gallons of gasoline or more, you must comply with the requirements in § 63.11118.

(e) An affected source shall, upon request by the Administrator, demonstrate that their monthly throughput is less than the 10,000-gallon or the 100,000-gallon threshold level, as applicable. For new or reconstructed affected sources, as specified in § 63.11112(b) and (c), recordkeeping to document monthly throughput must begin upon startup of the affected source. For existing sources, as specified in § 63.11112(d), recordkeeping to document monthly throughput must begin on January 10, 2008. For existing sources that are subject to this subpart only because they load gasoline into fuel tanks other than those in motor vehicles, as defined in § 63.11132, recordkeeping to document monthly throughput must begin on January 24, 2011. Records required under this paragraph shall be kept for a period of 5 years.

(f) If you are an owner or operator of affected sources, as defined in paragraph (a) of this section, you are not required to obtain a permit under 40 CFR part 70 or 40 CFR part 71 as a result of being subject to this subpart. However, you must still apply for and obtain a permit under 40 CFR part 70 or 40 CFR part 71 if you meet one or more of the applicability criteria found in 40 CFR 70.3(a) and (b) or 40 CFR 71.3(a) and (b).
(g) The loading of aviation gasoline into storage tanks at airports, and the subsequent transfer of aviation gasoline within the airport, is not subject to this subpart.

(h) Monthly throughput is the total volume of gasoline loaded into, or dispensed from, all the gasoline storage tanks located at a single affected GDF. If an area source has two or more GDF at separate locations within the area source, each GDF is treated as a separate affected source.

(i) If your affected source’s throughput ever exceeds an applicable throughput threshold, the affected source will remain subject to the requirements for sources above the threshold, even if the affected source throughput later falls below the applicable throughput threshold.

(j) The dispensing of gasoline from a fixed gasoline storage tank at a GDF into a portable gasoline tank for the on-site delivery and subsequent dispensing of the gasoline into the fuel tank of a motor vehicle or other gasoline-fueled engine or equipment used within the area source is only subject to § 63.11116 of this subpart.

(k) For any affected source subject to the provisions of this subpart and another Federal rule, you may elect to comply only with the more stringent provisions of the applicable subparts. You must consider all provisions of the rules, including monitoring, recordkeeping, and reporting. You must identify the affected source and provisions with which you will comply in your Notification of Compliance Status required under § 63.11124. You also must demonstrate in your Notification of Compliance Status that each provision with which you will comply is at least as stringent as the otherwise applicable requirements in this subpart. You are responsible for making accurate determinations concerning the more stringent provisions, and noncompliance with this rule is not excused if it is later determined that your determination was in error, and, as a result, you are violating this subpart. Compliance with this rule is your responsibility and the Notification of Compliance Status does not alter or affect that responsibility.


§ 63.11112 What parts of my affected source does this subpart cover?

(a) The emission sources to which this subpart applies are gasoline storage tanks and associated equipment components in vapor or liquid gasoline service at new, reconstructed, or existing GDF that meet the criteria specified in § 63.11111. Pressure/Vacuum vents on gasoline storage tanks and the equipment necessary to unload product from cargo tanks into the storage tanks at GDF are covered emission sources. The equipment used for the refueling of motor vehicles is not covered by this subpart.

(b) An affected source is a new affected source if you commenced construction on the affected source after November 9, 2006, and you meet the applicability criteria in § 63.11111 at the time you commenced operation.

(c) An affected source is reconstructed if you meet the criteria for reconstruction as defined in § 63.2.

(d) An affected source is an existing affected source if it is not new or reconstructed.

§ 63.11113 When do I have to comply with this subpart?

(a) If you have a new or reconstructed affected source, you must comply with this subpart according to paragraphs (a)(1) and (2) of this section, except as specified in paragraph (d) of this section.

(1) If you start up your affected source before January 10, 2008, you must comply with the standards in this subpart no later than January 10, 2008.

(2) If you start up your affected source after January 10, 2008, you must comply with the standards in this subpart upon startup of your affected source.

(b) If you have an existing affected source, you must comply with the standards in this subpart no later than January 10, 2011.
(c) If you have an existing affected source that becomes subject to the control requirements in this subpart because of an increase in the monthly throughput, as specified in § 63.11111(c) or § 63.11111(d), you must comply with the standards in this subpart no later than 3 years after the affected source becomes subject to the control requirements in this subpart.

(d) If you have a new or reconstructed affected source and you are complying with Table 1 to this subpart, you must comply according to paragraphs (d)(1) and (2) of this section.

(1) If you start up your affected source from November 9, 2006 to September 23, 2008, you must comply no later than September 23, 2008.

(2) If you start up your affected source after September 23, 2008, you must comply upon startup of your affected source.

(e) The initial compliance demonstration test required under § 63.11120(a)(1) and (2) must be conducted as specified in paragraphs (e)(1) and (2) of this section.

(1) If you have a new or reconstructed affected source, you must conduct the initial compliance test upon installation of the complete vapor balance system.

(2) If you have an existing affected source, you must conduct the initial compliance test as specified in paragraphs (e)(2)(i) or (e)(2)(ii) of this section.

(i) For vapor balance systems installed on or before December 15, 2009, you must test no later than 180 days after the applicable compliance date specified in paragraphs (b) or (c) of this section.

(ii) For vapor balance systems installed after December 15, 2009, you must test upon installation of the complete vapor balance system.

(f) If your GDF is subject to the control requirements in this subpart only because it loads gasoline into fuel tanks other than those in motor vehicles, as defined in § 63.11132, you must comply with the standards in this subpart as specified in paragraphs (f)(1) or (f)(2) of this section.

(1) If your GDF is an existing facility, you must comply by January 24, 2014.

(2) If your GDF is a new or reconstructed facility, you must comply by the dates specified in paragraphs (f)(2)(i) and (ii) of this section.

(i) If you start up your GDF after December 15, 2009, but before January 24, 2011, you must comply no later than January 24, 2011.

(ii) If you start up your GDF after January 24, 2011, you must comply upon startup of your GDF.


Emission Limitations and Management Practices

§ 63.11115 What are my general duties to minimize emissions?

Each owner or operator of an affected source under this subpart must comply with the requirements of paragraphs (a) and (b) of this section.

(a) You must, at all times, 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. 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.

(b) You must keep applicable records and submit reports as specified in § 63.11125(d) and § 63.11126(b).

[76 FR 4182, Jan. 24, 2011]

§ 63.11116  Requirements for facilities with monthly throughput of less than 10,000 gallons of gasoline.

(a) You must not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for
extended periods of time. Measures to be taken include, but are not limited to, the following:

(1) Minimize gasoline spills;

(2) Clean up spills as expeditiously as practicable;

(3) Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use;

(4) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and
recycling devices, such as oil/water separators.

(b) You are not required to submit notifications or reports as specified in § 63.11125, § 63.11126, or subpart A of this
part, but you must have records available within 24 hours of a request by the Administrator to document your
gasoline throughput.

(c) You must comply with the requirements of this subpart by the applicable dates specified in § 63.11113.

(d) Portable gasoline containers that meet the requirements of 40 CFR part 59, subpart F, are considered acceptable
for compliance with paragraph (a)(3) of this section.


§ 63.11117  Requirements for facilities with monthly throughput of 10,000 gallons of gasoline or more.

(a) You must comply with the requirements in section § 63.11116(a).

(b) Except as specified in paragraph (c) of this section, you must only load gasoline into storage tanks at your facility
by utilizing submerged filling, as defined in § 63.11132, and as specified in paragraphs (b)(1), (b)(2), or (b)(3) of this
section. The applicable distances in paragraphs (b)(1) and (2) shall be measured from the point in the opening of the
submerged fill pipe that is the greatest distance from the bottom of the storage tank.

(1) Submerged fill pipes installed on or before November 9, 2006, must be no more than 12 inches from the bottom of
the tank.

(2) Submerged fill pipes installed after November 9, 2006, must be no more than 6 inches from the bottom of the
tank.

(3) Submerged fill pipes not meeting the specifications of paragraphs (b)(1) or (b)(2) of this section are allowed if the
owner or operator can demonstrate that the liquid level in the tank is always above the entire opening of the fill pipe.
Documentation providing such demonstration must be made available for inspection by the Administrator’s delegated
representative during the course of a site visit.

(c) Gasoline storage tanks with a capacity of less than 250 gallons are not required to comply with the submerged fill
requirements in paragraph (b) of this section, but must comply only with all of the requirements in § 63.11116.
(d) You must have records available within 24 hours of a request by the Administrator to document your gasoline throughput.

(e) You must submit the applicable notifications as required under § 63.11124(a).

(f) You must comply with the requirements of this subpart by the applicable dates contained in § 63.11113.


§ 63.11118 Requirements for facilities with monthly throughput of 100,000 gallons of gasoline or more.

(a) You must comply with the requirements in §§ 63.11116(a) and 63.11117(b).

(b) Except as provided in paragraph (c) of this section, you must meet the requirements in either paragraph (b)(1) or paragraph (b)(2) of this section.

(1) Each management practice in Table 1 to this subpart that applies to your GDF.

(2) If, prior to January 10, 2008, you satisfy the requirements in both paragraphs (b)(2)(i) and (ii) of this section, you will be deemed in compliance with this subsection.

(i) You operate a vapor balance system at your GDF that meets the requirements of either paragraph (b)(2)(i)(A) or paragraph (b)(2)(i)(B) of this section.

(A) Achieves emissions reduction of at least 90 percent.

(B) Operates using management practices at least as stringent as those in Table 1 to this subpart.

(ii) Your gasoline dispensing facility is in compliance with an enforceable State, local, or tribal rule or permit that contains requirements of either paragraph (b)(2)(i)(A) or paragraph (b)(2)(i)(B) of this section.

(c) The emission sources listed in paragraphs (c)(1) through (3) of this section are not required to comply with the control requirements in paragraph (b) of this section, but must comply with the requirements in § 63.11117.

(1) Gasoline storage tanks with a capacity of less than 250 gallons that are constructed after January 10, 2008.

(2) Gasoline storage tanks with a capacity of less than 2,000 gallons that were constructed before January 10, 2008.

(3) Gasoline storage tanks equipped with floating roofs, or the equivalent.

(d) Cargo tanks unloading at GDF must comply with the management practices in Table 2 to this subpart.

(e) You must comply with the applicable testing requirements contained in § 63.11120.

(f) You must submit the applicable notifications as required under § 63.11124.

(g) You must keep records and submit reports as specified in §§ 63.11125 and 63.11126.

(h) You must comply with the requirements of this subpart by the applicable dates contained in § 63.11113.

Testing and Monitoring Requirements

§ 63.11120  What testing and monitoring requirements must I meet?

(a) Each owner or operator, at the time of installation, as specified in § 63.11113(e), of a vapor balance system required under § 63.11118(b)(1), and every 3 years thereafter, must comply with the requirements in paragraphs (a)(1) and (2) of this section.

(1) You must demonstrate compliance with the leak rate and cracking pressure requirements, specified in item 1(g) of Table 1 to this subpart, for pressure-vacuum vent valves installed on your gasoline storage tanks using the test methods identified in paragraph (a)(1)(i) or paragraph (a)(1)(ii) of this section.

(i) California Air Resources Board Vapor Recovery Test Procedure TP-201.1E,—Leak Rate and Cracking Pressure of Pressure/Vacuum Vent Valves, adopted October 8, 2003 (incorporated by reference, see § 63.14).

(ii) Use alternative test methods and procedures in accordance with the alternative test method requirements in § 63.7(f).

(2) You must demonstrate compliance with the static pressure performance requirement specified in item 1(h) of Table 1 to this subpart for your vapor balance system by conducting a static pressure test on your gasoline storage tanks using the test methods identified in paragraphs (a)(2)(i), (a)(2)(ii), or (a)(2)(iii) of this section.


(ii) Use alternative test methods and procedures in accordance with the alternative test method requirements in § 63.7(f).


(b) Each owner or operator choosing, under the provisions of § 63.6(g), to use a vapor balance system other than that described in Table 1 to this subpart must demonstrate to the Administrator or delegated authority under paragraph § 63.11131(a) of this subpart, the equivalency of their vapor balance system to that described in Table 1 to this subpart using the procedures specified in paragraphs (b)(1) through (3) of this section.

(1) You must demonstrate initial compliance by conducting an initial performance test on the vapor balance system to demonstrate that the vapor balance system achieves 95 percent reduction using the California Air Resources Board Vapor Recovery Test Procedure TP-201.1,—Volumetric Efficiency for Phase I Vapor Recovery Systems, adopted April 12, 1996, and amended February 1, 2001, and October 8, 2003, (incorporated by reference, see § 63.14).

(2) You must, during the initial performance test required under paragraph (b)(1) of this section, determine and document alternative acceptable values for the leak rate and cracking pressure requirements specified in item 1(g) of Table 1 to this subpart and for the static pressure performance requirement in item 1(h) of Table 1 to this subpart.

(3) You must comply with the testing requirements specified in paragraph (a) of this section.

(c) Conduct of performance tests. Performance tests conducted for this subpart shall be conducted under such conditions as the Administrator specifies to the owner or operator based on representative performance (i.e., performance based on normal operating conditions) of the affected source. Upon request, the owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of performance tests.

(d) Owners and operators of gasoline cargo tanks subject to the provisions of Table 2 to this subpart must conduct annual certification testing according to the vapor tightness testing requirements found in § 63.11092(f).
§ 63.11124 What notifications must I submit and when?

(a) Each owner or operator subject to the control requirements in § 63.11117 must comply with paragraphs (a)(1) through (3) of this section.

(1) You must submit an Initial Notification that you are subject to this subpart by May 9, 2008, or at the time you become subject to the control requirements in § 63.11117, unless you meet the requirements in paragraph (a)(3) of this section. If your affected source is subject to the control requirements in § 63.11117 only because it loads gasoline into fuel tanks other than those in motor vehicles, as defined in § 63.11132, you must submit the Initial Notification by May 24, 2011. The Initial Notification must contain the information specified in paragraphs (a)(1)(i) through (iii) of this section. The notification must be submitted to the applicable EPA Regional Office and delegated State authority as specified in § 63.13.

(i) The name and address of the owner and the operator.

(ii) The address (i.e., physical location) of the GDF.

(iii) A statement that the notification is being submitted in response to this subpart and identifying the requirements in paragraphs (a) through (c) of § 63.11117 that apply to you.

(2) You must submit a Notification of Compliance Status to the applicable EPA Regional Office and the delegated State authority, as specified in § 63.13, within 60 days of the applicable compliance date specified in § 63.11113, unless you meet the requirements in paragraph (a)(3) of this section. The Notification of Compliance Status must be signed by a responsible official who must certify its accuracy, must indicate whether the source has complied with the requirements of this subpart, and must indicate whether the facilities' monthly throughput is calculated based on the volume of gasoline loaded into all storage tanks or on the volume of gasoline dispensed from all storage tanks. If your facility is in compliance with the requirements of this subpart at the time the Initial Notification required under paragraph (a)(1) of this section is due, the Notification of Compliance Status may be submitted in lieu of the Initial Notification provided it contains the information required under paragraph (a)(1) of this section.

(3) If, prior to January 10, 2008, you are operating in compliance with an enforceable State, local, or tribal rule or permit that requires submerged fill as specified in § 63.11117(b), you are not required to submit an Initial Notification or a Notification of Compliance Status under paragraph (a)(1) or paragraph (a)(2) of this section.

(b) Each owner or operator subject to the control requirements in § 63.11118 must comply with paragraphs (b)(1) through (5) of this section.

(1) You must submit an Initial Notification that you are subject to this subpart by May 9, 2008, or at the time you become subject to the control requirements in § 63.11118. If your affected source is subject to the control requirements in § 63.11118 only because it loads gasoline into fuel tanks other than those in motor vehicles, as defined in § 63.11132, you must submit the Initial Notification by May 24, 2011. The Initial Notification must contain the information specified in paragraphs (b)(1)(i) through (iii) of this section. The notification must be submitted to the applicable EPA Regional Office and delegated State authority as specified in § 63.13.

(i) The name and address of the owner and the operator.

(ii) The address (i.e., physical location) of the GDF.

(iii) A statement that the notification is being submitted in response to this subpart and identifying the requirements in paragraphs (a) through (c) of § 63.11118 that apply to you.

(2) You must submit a Notification of Compliance Status to the applicable EPA Regional Office and the delegated State authority, as specified in § 63.13, in accordance with the schedule specified in § 63.9(h). The Notification of
Compliance Status must be signed by a responsible official who must certify its accuracy, must indicate whether the source has complied with the requirements of this subpart, and must indicate whether the facility's throughput is determined based on the volume of gasoline loaded into all storage tanks or on the volume of gasoline dispensed from all storage tanks. If your facility is in compliance with the requirements of this subpart at the time the Initial Notification required under paragraph (b)(1) of this section is due, the Notification of Compliance Status may be submitted in lieu of the Initial Notification provided it contains the information required under paragraph (b)(1) of this section.

(3) If, prior to January 10, 2008, you satisfy the requirements in both paragraphs (b)(3)(i) and (ii) of this section, you are not required to submit an Initial Notification or a Notification of Compliance Status under paragraph (b)(1) or paragraph (b)(2) of this subsection.

(i) You operate a vapor balance system at your gasoline dispensing facility that meets the requirements of either paragraphs (b)(3)(i)(A) or (b)(3)(i)(B) of this section.

(A) Achieves emissions reduction of at least 90 percent.

(B) Operates using management practices at least as stringent as those in Table 1 to this subpart.

(ii) Your gasoline dispensing facility is in compliance with an enforceable State, local, or tribal rule or permit that contains requirements of either paragraphs (b)(3)(i)(A) or (b)(3)(i)(B) of this section.

(4) You must submit a Notification of Performance Test, as specified in §63.9(e), prior to initiating testing required by §63.11120(a) and (b).

(5) You must submit additional notifications specified in §63.9, as applicable.


§ 63.11125 What are my recordkeeping requirements?

(a) Each owner or operator subject to the management practices in §63.11118 must keep records of all tests performed under §63.11120(a) and (b).

(b) Records required under paragraph (a) of this section shall be kept for a period of 5 years and shall be made available for inspection by the Administrator's delegated representatives during the course of a site visit.

(c) Each owner or operator of a gasoline cargo tank subject to the management practices in Table 2 to this subpart must keep records documenting vapor tightness testing for a period of 5 years. Documentation must include each of the items specified in §63.11094(b)(2)(i) through (viii). Records of vapor tightness testing must be retained as specified in either paragraph (c)(1) or paragraph (c)(2) of this section.

(1) The owner or operator must keep all vapor tightness testing records with the cargo tank.

(2) As an alternative to keeping all records with the cargo tank, the owner or operator may comply with the requirements of paragraphs (c)(2)(i) and (ii) of this section.

(i) The owner or operator may keep records of only the most recent vapor tightness test with the cargo tank, and keep records for the previous 4 years at their office or another central location.

(ii) Vapor tightness testing records that are kept at a location other than with the cargo tank must be instantly available (e.g., via e-mail or facsimile) to the Administrator's delegated representative during the course of a site visit or within a mutually agreeable time frame. Such records must be an exact duplicate image of the original paper copy record with certifying signatures.
(d) Each owner or operator of an affected source under this subpart shall keep records as specified in paragraphs (d)(1) and (2) of this section.

(1) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.

(2) Records of actions taken during periods of malfunction to minimize emissions in accordance with § 63.11115(a), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.


§ 63.11126 What are my reporting requirements?

(a) Each owner or operator subject to the management practices in § 63.11118 shall report to the Administrator the results of all volumetric efficiency tests required under § 63.11120(b). Reports submitted under this paragraph must be submitted within 180 days of the completion of the performance testing.

(b) Each owner or operator of an affected source under this subpart shall report, by March 15 of each year, the number, duration, and a brief description of each type of malfunction which occurred during the previous calendar year 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 § 63.11115(a), including actions taken to correct a malfunction. No report is necessary for a calendar year in which no malfunctions occurred.

[76 FR 4183, Jan. 24, 2011]

Other Requirements and Information

§ 63.11130 What parts of the General Provisions apply to me?

Table 3 to this subpart shows which parts of the General Provisions apply to you.

§ 63.11131 Who implements and enforces this subpart?

(a) This subpart can be implemented and enforced by the U.S. EPA or a delegated authority such as the applicable State, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to a State, local, or tribal agency, then that agency, in addition to the U.S. EPA, has the authority to implement and enforce this subpart. Contact the applicable U.S. EPA Regional Office to find out if implementation and enforcement of this subpart is delegated to a State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the Administrator of U.S. EPA and cannot be transferred to the State, local, or tribal agency.

(c) The authorities that cannot be delegated to State, local, or tribal agencies are as specified in paragraphs (c)(1) through (3) of this section.

(1) Approval of alternatives to the requirements in §§ 63.11116 through 63.11118 and 63.11120.

(2) Approval of major alternatives to test methods under § 63.7(e)(2)(ii) and (f), as defined in § 63.90, and as required in this subpart.

(3) Approval of major alternatives to recordkeeping and reporting under § 63.10(f), as defined in § 63.90, and as required in this subpart.
§ 63.11132 What definitions apply to this subpart?

As used in this subpart, all terms not defined herein shall have the meaning given them in the Clean Air Act (CAA), or in subparts A and BBBBBB of this part. For purposes of this subpart, definitions in this section supersede definitions in other parts or subparts.

Dual-point vapor balance system means a type of vapor balance system in which the storage tank is equipped with an entry port for a gasoline fill pipe and a separate exit port for a vapor connection.

Gasoline means any petroleum distillate or petroleum distillate/alcohol blend having a Reid vapor pressure of 27.6 kilopascals or greater, which is used as a fuel for internal combustion engines.

Gasoline cargo tank means a delivery tank truck or railcar which is loading or unloading gasoline, or which has loaded or unloaded gasoline on the immediately previous load.

Gasoline dispensing facility (GDF) means any stationary facility which dispenses gasoline into the fuel tank of a motor vehicle, motor vehicle engine, nonroad vehicle, or nonroad engine, including a nonroad vehicle or nonroad engine used solely for competition. These facilities include, but are not limited to, facilities that dispense gasoline into on- and off-road, street, or highway motor vehicles, lawn equipment, boats, test engines, landscaping equipment, generators, pumps, and other gasoline-fueled engines and equipment.

Monthly throughput means the total volume of gasoline that is loaded into, or dispensed from, all gasoline storage tanks at each GDF during a month. Monthly throughput is calculated by summing the volume of gasoline loaded into, or dispensed from, all gasoline storage tanks at each GDF during the current day, plus the total volume of gasoline loaded into, or dispensed from, all gasoline storage tanks at each GDF during the previous 364 days, and then dividing that sum by 12.

Motor vehicle means any self-propelled vehicle designed for transporting persons or property on a street or highway.

Nonroad engine means an internal combustion engine (including the fuel system) that is not used in a motor vehicle or a vehicle used solely for competition, or that is not subject to standards promulgated under section 7411 of this title or section 7521 of this title.

Nonroad vehicle means a vehicle that is powered by a nonroad engine, and that is not a motor vehicle or a vehicle used solely for competition.

Submerged filling means, for the purposes of this subpart, the filling of a gasoline storage tank through a submerged fill pipe whose discharge is no more than the applicable distance specified in § 63.11117(b) from the bottom of the tank. Bottom filling of gasoline storage tanks is included in this definition.

Vapor balance system means a combination of pipes and hoses that create a closed system between the vapor spaces of an unloading gasoline cargo tank and a receiving storage tank such that vapors displaced from the storage tank are transferred to the gasoline cargo tank being unloaded.

Vapor-tight means equipment that allows no loss of vapors. Compliance with vapor-tight requirements can be determined by checking to ensure that the concentration at a potential leak source is not equal to or greater than 100 percent of the Lower Explosive Limit when measured with a combustible gas detector, calibrated with propane, at a distance of 1 inch from the source.

Vapor-tight gasoline cargo tank means a gasoline cargo tank which has demonstrated within the 12 preceding months that it meets the annual certification test requirements in § 63.11092(f) of this part.

Table 1 to Subpart CCCCCC of Part 63—Applicability Criteria and Management Practices for Gasoline Dispensing Facilities With Monthly Throughput of 100,000 Gallons of Gasoline or More

<table>
<thead>
<tr>
<th>If you own or operate</th>
<th>Then you must</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. A new, reconstructed, or existing GDF subject to § 63.11118</td>
<td>Install and operate a vapor balance system on your gasoline storage tanks that meets the design criteria in paragraphs (a) through (h).</td>
</tr>
<tr>
<td>(a) All vapor connections and lines on the storage tank shall be equipped with closures that seal upon disconnect.</td>
<td></td>
</tr>
<tr>
<td>(b) The vapor line from the gasoline storage tank to the gasoline cargo tank shall be vapor-tight, as defined in § 63.11132.</td>
<td></td>
</tr>
<tr>
<td>(c) The vapor balance system shall be designed such that the pressure in the tank truck does not exceed 18 inches water pressure or 5.9 inches water vacuum during product transfer.</td>
<td></td>
</tr>
<tr>
<td>(d) The vapor recovery and product adaptors, and the method of connection with the delivery elbow, shall be designed so as to prevent the over-tightening or loosening of fittings during normal delivery operations.</td>
<td></td>
</tr>
<tr>
<td>(e) If a gauge well separate from the fill tube is used, it shall be provided with a submerged drop tube that extends the same distance from the bottom of the storage tank as specified in § 63.11117(b).</td>
<td></td>
</tr>
<tr>
<td>(f) Liquid fill connections for all systems shall be equipped with vapor-tight caps.</td>
<td></td>
</tr>
<tr>
<td>(g) Pressure/vacuum (PV) vent valves shall be installed on the storage tank vent pipes. The pressure specifications for PV vent valves shall be: a positive pressure setting of 2.5 to 6.0 inches of water and a negative pressure setting of 6.0 to 10.0 inches of water. The total leak rate of all PV vent valves at an affected facility, including connections, shall not exceed 0.17 cubic foot per hour at a pressure of 2.0 inches of water and 0.63 cubic foot per hour at a vacuum of 4 inches of water.</td>
<td></td>
</tr>
<tr>
<td>(h) The vapor balance system shall be capable of meeting the static pressure performance requirement of the following equation:</td>
<td></td>
</tr>
<tr>
<td>[ Pf = 2e^{500.887/v} ]</td>
<td></td>
</tr>
<tr>
<td>Where:</td>
<td></td>
</tr>
<tr>
<td>Pf = Minimum allowable final pressure, inches of water.</td>
<td></td>
</tr>
<tr>
<td>v = Total ullage affected by the test, gallons.</td>
<td></td>
</tr>
<tr>
<td>e = Dimensionless constant equal to approximately 2.718.</td>
<td></td>
</tr>
<tr>
<td>2 = The initial pressure, inches water.</td>
<td></td>
</tr>
<tr>
<td>2. A new or reconstructed GDF, or any storage tank(s) constructed after November 9, 2006, at an existing affected facility subject to § 63.11118</td>
<td>Equip your gasoline storage tanks with a dual-point vapor balance system, as defined in § 63.11132, and comply with the requirements of item 1 in this Table.</td>
</tr>
</tbody>
</table>

1 The management practices specified in this Table are not applicable if you are complying with the requirements in § 63.11118(b)(2), except that if you are complying with the requirements in § 63.11118(b)(2)(i)(B), you must operate using management practices at least as stringent as those listed in this Table.

Table 2 to Subpart CCCCCC of Part 63—Applicability Criteria and Management Practices for Gasoline Cargo Tanks Unloading at Gasoline Dispensing Facilities With Monthly Throughput of 100,000 Gallons of Gasoline or More

<table>
<thead>
<tr>
<th>If you own or operate</th>
<th>Then you must</th>
</tr>
</thead>
<tbody>
<tr>
<td>A gasoline cargo tank</td>
<td>Not unload gasoline into a storage tank at a GDF subject to the control requirements in this subpart unless the following conditions are met:</td>
</tr>
<tr>
<td>(i) All hoses in the vapor balance system are properly connected,</td>
<td></td>
</tr>
<tr>
<td>(ii) The adapters or couplers that attach to the vapor line on the storage tank have closures that seal upon disconnect,</td>
<td></td>
</tr>
<tr>
<td>(iii) All vapor return hoses, couplers, and adapters used in the gasoline delivery are vapor-tight,</td>
<td></td>
</tr>
<tr>
<td>(iv) All tank truck vapor return equipment is compatible in size and forms a vapor-tight connection with the vapor balance equipment on the GDF storage tank, and</td>
<td></td>
</tr>
<tr>
<td>(v) All hatches on the tank truck are closed and securely fastened,</td>
<td></td>
</tr>
<tr>
<td>(vi) The filling of storage tanks at GDF shall be limited to unloading from vapor-tight gasoline cargo tanks. Documentation that the cargo tank has met the specifications of EPA Method 27 shall be carried with the cargo tank, as specified in § 63.11125(c).</td>
<td></td>
</tr>
</tbody>
</table>


Table 3 to Subpart CCCCCC of Part 63—Applicability of General Provisions

<table>
<thead>
<tr>
<th>Citation</th>
<th>Subject</th>
<th>Brief description</th>
<th>Applies to subpart CCCCCC</th>
</tr>
</thead>
<tbody>
<tr>
<td>§ 63.1</td>
<td>Applicability</td>
<td>Initial applicability determination; applicability after standard established; permit requirements; extensions, notifications</td>
<td>Yes, specific requirements given in § 63.11111.</td>
</tr>
<tr>
<td>§ 63.1(c)(2)</td>
<td>Title V Permit</td>
<td>Requirements for obtaining a title V permit from the applicable permitting authority</td>
<td>Yes, § 63.11111(f) of subpart CCCCCC exempts identified area sources from the obligation to obtain title V operating permits.</td>
</tr>
<tr>
<td>§ 63.2</td>
<td>Definitions</td>
<td>Definitions for part 63 standards</td>
<td>Yes, additional definitions in § 63.11132.</td>
</tr>
<tr>
<td>§ 63.3</td>
<td>Units and Abbreviations</td>
<td>Units and abbreviations for part 63 standards</td>
<td>Yes.</td>
</tr>
<tr>
<td>§ 63.4</td>
<td>Prohibited Activities and Circumvention</td>
<td>Prohibited activities; Circumvention, severability</td>
<td>Yes.</td>
</tr>
<tr>
<td>§ 63.5</td>
<td>Construction/Reconstruction</td>
<td>Applicability; applications; approvals</td>
<td>Yes, except that these notifications are not required for facilities subject to § 63.11116</td>
</tr>
<tr>
<td>§ 63.6(a)</td>
<td>Compliance with Standards/Operation &amp; Maintenance—Applicability</td>
<td>General Provisions apply unless compliance extension; General Provisions apply to area sources that become major</td>
<td>Yes.</td>
</tr>
<tr>
<td>Citation</td>
<td>Subject</td>
<td>Brief description</td>
<td>Applies to subpart CCCCCC</td>
</tr>
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</tr>
<tr>
<td>§ 63.6(b)(1)-(4)</td>
<td>Compliance Dates for New and Reconstructed Sources</td>
<td>Standards apply at effective date; 3 years after effective date; upon startup; 10 years after construction or reconstruction commences for CAA section 112(f)</td>
<td>Yes.</td>
</tr>
<tr>
<td>§ 63.6(b)(5)</td>
<td>Notification</td>
<td>Must notify if commenced construction or reconstruction after proposal</td>
<td>Yes.</td>
</tr>
<tr>
<td>§ 63.6(b)(6)</td>
<td>[Reserved]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>§ 63.6(b)(7)</td>
<td>Compliance Dates for New and Reconstructed Area Sources That Become Major</td>
<td>Area sources that become major must comply with major source standards immediately upon becoming major, regardless of whether required to comply when they were an area source</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.6(c)(1)-(2)</td>
<td>Compliance Dates for Existing Sources</td>
<td>Comply according to date in this subpart, which must be no later than 3 years after effective date; for CAA section 112(f) standards, comply within 90 days of effective date unless compliance extension</td>
<td>No. § 63.11113 specifies the compliance dates.</td>
</tr>
<tr>
<td>§ 63.6(c)(3)-(4)</td>
<td>[Reserved]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>§ 63.6(c)(5)</td>
<td>Compliance Dates for Existing Area Sources That Become Major</td>
<td>Area sources That become major must comply with major source standards by date indicated in this subpart or by equivalent time period (e.g., 3 years)</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.6(d)</td>
<td>[Reserved]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>§ 63.6(e)(1)(i)</td>
<td>General duty to minimize emissions</td>
<td>Operate to minimize emissions at all times; information Administrator will use to determine if operation and maintenance requirements were met.</td>
<td>No. See § 63.11115 for general duty requirement.</td>
</tr>
<tr>
<td>§ 63.6(e)(1)(ii)</td>
<td>Requirement to correct malfunctions ASAP</td>
<td>Owner or operator must correct malfunctions as soon as possible.</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.6(e)(2)</td>
<td>[Reserved]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>§ 63.6(e)(3)</td>
<td>Startup, Shutdown, and Malfunction (SSM) Plan</td>
<td>Requirement for SSM plan; content of SSM plan; actions during SSM</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.6(f)(1)</td>
<td>Compliance Except During SSM</td>
<td>You must comply with emission standards at all times except during SSM</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.6(f)(2)-(3)</td>
<td>Methods for Determining Compliance</td>
<td>Compliance based on performance test, operation and maintenance plans, records, inspection</td>
<td>Yes.</td>
</tr>
<tr>
<td>§ 63.6(g)(1)-(3)</td>
<td>Alternative Standard</td>
<td>Procedures for getting an alternative standard</td>
<td>Yes.</td>
</tr>
<tr>
<td>§ 63.6(h)(1)</td>
<td>Compliance with Opacity/Visible Emission (VE) Standards</td>
<td>You must comply with opacity/VE standards at all times except during SSM</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.6(h)(2)(i)</td>
<td>Determining Compliance with Opacity/VE Standards</td>
<td>If standard does not State test method, use EPA Method 9 for opacity in appendix A of part 60 of this chapter and EPA Method 22 for VE in appendix A of part 60 of this chapter</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.6(h)(2)(ii)</td>
<td>[Reserved]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Citation</td>
<td>Subject</td>
<td>Brief description</td>
<td>Applies to subpart CCCCCC</td>
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</tr>
<tr>
<td>§ 63.6(h)(2)(iii)</td>
<td>Using Previous Tests To Demonstrate Compliance With Opacity/VE Standards</td>
<td>Criteria for when previous opacity/VE testing can be used to show compliance with this subpart</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.6(h)(3)</td>
<td>[Reserved]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>§ 63.6(h)(4)</td>
<td>Notification of Opacity/VE Observation Date</td>
<td>Must notify Administrator of anticipated date of observation</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.6(h)(5)(i), (iii)-(v)</td>
<td>Conducting Opacity/VE Observations</td>
<td>Dates and schedule for conducting opacity/VE observations</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.6(h)(5)(ii)</td>
<td>Opacity Test Duration and Averaging Times</td>
<td>Must have at least 3 hours of observation with 30 6-minute averages</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.6(h)(6)</td>
<td>Records of Conditions During Opacity/VE Observations</td>
<td>Must keep records available and allow Administrator to inspect</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.6(h)(7)(i)</td>
<td>Report Continuous Opacity Monitoring System (COMS) Monitoring Data From Performance Test</td>
<td>Must submit COMS data with other performance test data</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.6(h)(7)(ii)</td>
<td>Using COMS Instead of EPA Method 9</td>
<td>Can submit COMS data instead of EPA Method 9 results even if rule requires EPA Method 9 in appendix A of part 60 of this chapter, but must notify Administrator before performance test</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.6(h)(7)(iii)</td>
<td>Averaging Time for COMS During Performance Test</td>
<td>To determine compliance, must reduce COMS data to 6-minute averages</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.6(h)(7)(iv)</td>
<td>COMS Requirements</td>
<td>Owner/operator must demonstrate that COMS performance evaluations are conducted according to § 63.8(e); COMS are properly maintained and operated according to § 63.8(c) and data quality as § 63.8(d)</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.6(h)(7)(v)</td>
<td>Determining Compliance with Opacity/VE Standards</td>
<td>COMS is probable but not conclusive evidence of compliance with opacity standard, even if EPA Method 9 observation shows otherwise. Requirements for COMS to be probable evidence—proper maintenance, meeting Performance Specification 1 in appendix B of part 60 of this chapter, and data have not been altered</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.6(h)(8)</td>
<td>Determining Compliance with Opacity/VE Standards</td>
<td>Administrator will use all COMS, EPA Method 9 (in appendix A of part 60 of this chapter), and EPA Method 22 (in appendix A of part 60 of this chapter) results, as well as information about operation and maintenance to determine compliance</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.6(h)(9)</td>
<td>Adjusted Opacity Standard</td>
<td>Procedures for Administrator to adjust an opacity standard</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.6(i)(1)-(14)</td>
<td>Compliance Extension</td>
<td>Procedures and criteria for Administrator to grant compliance extension</td>
<td>Yes.</td>
</tr>
<tr>
<td>§ 63.6(j)</td>
<td>Presidential Compliance Exemption</td>
<td>President may exempt any source from requirement to comply with this subpart</td>
<td>Yes.</td>
</tr>
<tr>
<td>Citation</td>
<td>Subject</td>
<td>Brief description</td>
<td>Applies to subpart CCCCCC</td>
</tr>
<tr>
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</tr>
<tr>
<td>§ 63.7(a)(2)</td>
<td>Performance Test Dates</td>
<td>Dates for conducting initial performance testing; must conduct 180 days after compliance date</td>
<td>Yes</td>
</tr>
<tr>
<td>§ 63.7(a)(3)</td>
<td>CAA Section 114 Authority</td>
<td>Administrator may require a performance test under CAA section 114 at any time</td>
<td>Yes</td>
</tr>
<tr>
<td>§ 63.7(b)(1)</td>
<td>Notification of Performance Test</td>
<td>Must notify Administrator 60 days before the test</td>
<td>Yes</td>
</tr>
<tr>
<td>§ 63.7(b)(2)</td>
<td>Notification of Re-scheduling</td>
<td>If have to reschedule performance test, must notify Administrator of rescheduled date as soon as practicable and without delay</td>
<td>Yes</td>
</tr>
<tr>
<td>§ 63.7(c)</td>
<td>Quality Assurance (QA)/Test Plan</td>
<td>Requirement to submit site-specific test plan 60 days before the test or on date Administrator agrees with; test plan approval procedures; performance audit requirements; internal and external QA procedures for testing</td>
<td>Yes</td>
</tr>
<tr>
<td>§ 63.7(d)</td>
<td>Testing Facilities</td>
<td>Requirements for testing facilities</td>
<td>Yes</td>
</tr>
<tr>
<td>§ 63.7(e)(1)</td>
<td>Conditions for Conducting Performance Tests</td>
<td>Performance test must be conducted under representative conditions</td>
<td>No, § 63.11120(c) specifies conditions for conducting performance tests.</td>
</tr>
<tr>
<td>§ 63.7(e)(2)</td>
<td>Conditions for Conducting Performance Tests</td>
<td>Must conduct according to this subpart and EPA test methods unless Administrator approves alternative</td>
<td>Yes</td>
</tr>
<tr>
<td>§ 63.7(e)(3)</td>
<td>Test Run Duration</td>
<td>Must have three test runs of at least 1 hour each; compliance is based on arithmetic mean of three runs; conditions when data from an additional test run can be used</td>
<td>Yes</td>
</tr>
<tr>
<td>§ 63.7(f)</td>
<td>Alternative Test Method</td>
<td>Procedures by which Administrator can grant approval to use an intermediate or major change, or alternative to a test method</td>
<td>Yes</td>
</tr>
<tr>
<td>§ 63.7(g)</td>
<td>Performance Test Data Analysis</td>
<td>Must include raw data in performance test report; must submit performance test data 60 days after end of test with the Notification of Compliance Status; keep data for 5 years</td>
<td>Yes</td>
</tr>
<tr>
<td>§ 63.7(h)</td>
<td>Waiver of Tests</td>
<td>Procedures for Administrator to waive performance test</td>
<td>Yes</td>
</tr>
<tr>
<td>§ 63.8(a)(1)</td>
<td>Applicability of Monitoring Requirements</td>
<td>Subject to all monitoring requirements in standard</td>
<td>Yes</td>
</tr>
<tr>
<td>§ 63.8(a)(2)</td>
<td>Performance Specifications</td>
<td>Performance Specifications in appendix B of 40 CFR part 60 apply</td>
<td>Yes</td>
</tr>
<tr>
<td>§ 63.8(a)(3)</td>
<td>[Reserved]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>§ 63.8(a)(4)</td>
<td>Monitoring of Flares</td>
<td>Monitoring requirements for flares in § 63.11 apply</td>
<td>Yes</td>
</tr>
<tr>
<td>§ 63.8(b)(1)</td>
<td>Monitoring</td>
<td>Must conduct monitoring according to standard unless Administrator approves alternative</td>
<td>Yes</td>
</tr>
<tr>
<td>Citation</td>
<td>Subject</td>
<td>Brief description</td>
<td>Applies to subpart CCCCCC</td>
</tr>
<tr>
<td>---------------</td>
<td>---------------------------------------------------</td>
<td>------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>§ 63.8(b)(2)-(3)</td>
<td>Multiple Effluents and Multiple Monitoring Systems</td>
<td>Specific requirements for installing monitoring systems; must install on each affected source or after combined with another affected source before it is released to the atmosphere provided the monitoring is sufficient to demonstrate compliance with the standard; if more than one monitoring system on an emission point, must report all monitoring system results, unless one monitoring system is a backup</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.8(c)(1)</td>
<td>Monitoring System Operation and Maintenance</td>
<td>Maintain monitoring system in a manner consistent with good air pollution control practices</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.8(c)(1)(i)-(iii)</td>
<td>Operation and Maintenance of Continuous Monitoring Systems (CMS)</td>
<td>Must maintain and operate each CMS as specified in § 63.6(e)(1); must keep parts for routine repairs readily available; must develop a written SSM plan for CMS, as specified in § 63.6(e)(3)</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.8(c)(2)-(8)</td>
<td>CMS Requirements</td>
<td>Must install to get representative emission or parameter measurements; must verify operational status before or at performance test</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.8(d)</td>
<td>CMS Quality Control</td>
<td>Requirements for CMS quality control, including calibration, etc.; must keep quality control plan on record for 5 years; keep old versions for 5 years after revisions</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.8(e)</td>
<td>CMS Performance Evaluation</td>
<td>Notification, performance evaluation test plan, reports</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.8(f)(1)-(5)</td>
<td>Alternative Monitoring Method</td>
<td>Procedures for Administrator to approve alternative monitoring</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.8(f)(6)</td>
<td>Alternative to Relative Accuracy Test</td>
<td>Procedures for Administrator to approve alternative relative accuracy tests for continuous emissions monitoring system (CEMS)</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.8(g)</td>
<td>Data Reduction</td>
<td>COMS 6-minute averages calculated over at least 36 evenly spaced data points; CEMS 1 hour averages computed over at least 4 equally spaced data points; data that cannot be used in average</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.9(a)</td>
<td>Notification Requirements</td>
<td>Applicability and State delegation</td>
<td>Yes.</td>
</tr>
<tr>
<td>§ 63.9(b)(1)-(2), (4)-(5)</td>
<td>Initial Notifications</td>
<td>Submit notification within 120 days after effective date; notification of intent to construct/reconstruct, notification of commencement of construction/reconstruction, notification of startup; contents of each</td>
<td>Yes.</td>
</tr>
<tr>
<td>§ 63.9(c)</td>
<td>Request for Compliance Extension</td>
<td>Can request if cannot comply by date or if installed best available control technology or lowest achievable emission rate</td>
<td>Yes.</td>
</tr>
<tr>
<td>Citation</td>
<td>Subject</td>
<td>Brief description</td>
<td>Applies to subpart CCCCCC</td>
</tr>
<tr>
<td>----------------</td>
<td>-------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>§ 63.9(d)</td>
<td>Notification of Special Compliance Requirements for New Sources</td>
<td>For sources that commence construction between proposal and promulgation and want to comply 3 years after effective date</td>
<td>Yes.</td>
</tr>
<tr>
<td>§ 63.9(e)</td>
<td>Notification of Performance Test</td>
<td>Notify Administrator 60 days prior</td>
<td>Yes.</td>
</tr>
<tr>
<td>§ 63.9(f)</td>
<td>Notification of VE/Opacity Test</td>
<td>Notify Administrator 30 days prior</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.9(g)</td>
<td>Additional Notifications when Using CMS</td>
<td>Notification of performance evaluation; notification about use of COMS data; notification that exceeded criterion for relative accuracy alternative</td>
<td>Yes, however, there are no opacity standards.</td>
</tr>
<tr>
<td>§ 63.9(h)(1)-(6)</td>
<td>Notification of Compliance Status</td>
<td>Contents due 60 days after end of performance test or other compliance demonstration, except for opacity/VE, which are due 30 days after; when to submit to Federal vs. State authority</td>
<td>Yes, however, there are no opacity standards.</td>
</tr>
<tr>
<td>§ 63.9(i)</td>
<td>Adjustment of Submittal Deadlines</td>
<td>Procedures for Administrator to approve change when notifications must be submitted</td>
<td>Yes.</td>
</tr>
<tr>
<td>§ 63.9(j)</td>
<td>Change in Previous Information</td>
<td>Must submit within 15 days after the change</td>
<td>Yes.</td>
</tr>
<tr>
<td>§ 63.10(a)</td>
<td>Recordkeeping/Reporting</td>
<td>Applies to all, unless compliance extension; when to submit to Federal vs. State authority; procedures for owners of more than one source</td>
<td>Yes.</td>
</tr>
<tr>
<td>§ 63.10(b)(1)</td>
<td>Recordkeeping/Reporting</td>
<td>General requirements; keep all records readily available; keep for 5 years</td>
<td>Yes.</td>
</tr>
<tr>
<td>§ 63.10(b)(2)(i)</td>
<td>Records related to SSM</td>
<td>Recordkeeping of occurrence and duration of startups and shutdowns</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.10(b)(2)(ii)</td>
<td>Records related to SSM</td>
<td>Recordkeeping of malfunctions</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.10(b)(2)(iii)</td>
<td>Maintenance records</td>
<td>Recordkeeping of maintenance on air pollution control and monitoring equipment</td>
<td>Yes.</td>
</tr>
<tr>
<td>§ 63.10(b)(2)(iv)</td>
<td>Records Related to SSM</td>
<td>Actions taken to minimize emissions during SSM</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.10(b)(2)(v)</td>
<td>Records Related to SSM</td>
<td>Actions taken to minimize emissions during SSM</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.10(b)(2)(vi)-(xi)</td>
<td>CMS Records</td>
<td>Malfunctions, inoperative, out-of-control periods</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.10(b)(2)(xii)</td>
<td>Records</td>
<td>Records when under waiver</td>
<td>Yes.</td>
</tr>
<tr>
<td>§ 63.10(b)(2)(xiii)</td>
<td>Records</td>
<td>Records when using alternative to relative accuracy test</td>
<td>Yes.</td>
</tr>
<tr>
<td>§ 63.10(b)(2)(xiv)</td>
<td>Records</td>
<td>All documentation supporting Initial Notification and Notification of Compliance Status</td>
<td>Yes.</td>
</tr>
<tr>
<td>§ 63.10(b)(3)</td>
<td>Records</td>
<td>Applicability determinations</td>
<td>Yes.</td>
</tr>
<tr>
<td>§ 63.10(c)</td>
<td>Records</td>
<td>Additional records for CMS</td>
<td>No.</td>
</tr>
<tr>
<td>Citation</td>
<td>Subject</td>
<td>Brief description</td>
<td>Applies to subpart CCCCCC</td>
</tr>
<tr>
<td>----------</td>
<td>----------------------------------------------</td>
<td>----------------------------------------------------------------------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>§ 63.10(d)(1)</td>
<td>General Reporting Requirements</td>
<td>Requirement to report</td>
<td>Yes.</td>
</tr>
<tr>
<td>§ 63.10(d)(2)</td>
<td>Report of Performance Test Results</td>
<td>When to submit to Federal or State authority</td>
<td>Yes.</td>
</tr>
<tr>
<td>§ 63.10(d)(3)</td>
<td>Reporting Opacity or VE Observations</td>
<td>What to report and when</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.10(d)(4)</td>
<td>Progress Reports</td>
<td>Must submit progress reports on schedule if under compliance extension</td>
<td>Yes.</td>
</tr>
<tr>
<td>§ 63.10(d)(5)</td>
<td>SSM Reports</td>
<td>Contents and submission</td>
<td>No. See § 63.11126(b) for malfunction reporting requirements.</td>
</tr>
<tr>
<td>§ 63.10(e)(1)-(2)</td>
<td>Additional CMS Reports</td>
<td>Must report results for each CEMS on a unit; written copy of CMS performance evaluation; two-three copies of COMS performance evaluation</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.10(e)(3)(i)-(iii)</td>
<td>Reports</td>
<td>Schedule for reporting excess emissions</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.10(e)(3)(iv)-(v)</td>
<td>Excess Emissions Reports</td>
<td>Requirement to revert to quarterly submission if there is an excess emissions and parameter monitor exceedances (now defined as deviations); provision to request semiannual reporting after compliance for 1 year; submit report by 30th day following end of quarter or calendar half; if there has not been an exceedance or excess emissions (now defined as deviations), report contents in a statement that there have been no deviations; must submit report containing all of the information in §§ 63.8(c)(7)-(8) and 63.10(c)(5)-(13)</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.10(e)(3)(iv)-(v)</td>
<td>Excess Emissions Reports</td>
<td>Requirement to revert to quarterly submission if there is an excess emissions and parameter monitor exceedances (now defined as deviations); provision to request semiannual reporting after compliance for 1 year; submit report by 30th day following end of quarter or calendar half; if there has not been an exceedance or excess emissions (now defined as deviations), report contents in a statement that there have been no deviations; must submit report containing all of the information in §§ 63.8(c)(7)-(8) and 63.10(c)(5)-(13)</td>
<td>No. § 63.11130(K) specifies excess emission events for this subpart.</td>
</tr>
<tr>
<td>§ 63.10(e)(3)(vi)-(vii)</td>
<td>Excess Emissions Report and Summary Report</td>
<td>Requirements for reporting excess emissions for CMS; requires all of the information in §§ 63.10(c)(5)-(13) and 63.8(c)(7)-(8)</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.10(e)(4)</td>
<td>Reporting COMS Data</td>
<td>Must submit COMS data with performance test data</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.10(f)</td>
<td>Waiver for Recordkeeping/Reporting</td>
<td>Procedures for Administrator to waive</td>
<td>Yes.</td>
</tr>
<tr>
<td>Citation</td>
<td>Subject</td>
<td>Brief description</td>
<td>Applies to subpart CCCCCC</td>
</tr>
<tr>
<td>-------------------</td>
<td>----------------------------------</td>
<td>--------------------------------------------------------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>§ 63.11(b)</td>
<td>Flares</td>
<td>Requirements for flares</td>
<td>No.</td>
</tr>
<tr>
<td>§ 63.12</td>
<td>Delegation</td>
<td>State authority to enforce standards</td>
<td>Yes.</td>
</tr>
<tr>
<td>§ 63.13</td>
<td>Addresses</td>
<td>Addresses where reports, notifications, and requests are sent</td>
<td>Yes.</td>
</tr>
<tr>
<td>§ 63.14</td>
<td>Incorporations by Reference</td>
<td>Test methods incorporated by reference</td>
<td>Yes.</td>
</tr>
<tr>
<td>§ 63.15</td>
<td>Availability of Information</td>
<td>Public and confidential information</td>
<td>Yes.</td>
</tr>
</tbody>
</table>

Indiana Department of Environmental Management  
Office of Air Quality  

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

### Source Description and Location

<table>
<thead>
<tr>
<th>Source Name:</th>
<th>ATMI-Indy, LLC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source Location:</td>
<td>6324 West Stoner Drive, Greenfield, IN 46140</td>
</tr>
<tr>
<td>County:</td>
<td>Hancock</td>
</tr>
<tr>
<td>SIC Code:</td>
<td>3272 (Concrete Products, Except Block and Brick)</td>
</tr>
<tr>
<td>Permit Renewal No.:</td>
<td>M059-42234-00043</td>
</tr>
<tr>
<td>Permit Reviewer:</td>
<td>Travis Flock</td>
</tr>
</tbody>
</table>

On November 19, 2019, ATMI-Indy, LLC submitted an application to the Office of Air Quality (OAQ) requesting to renew its operating permit. OAQ has reviewed the operating permit renewal application from ATMI-Indy, LLC relating to the operation of an insulated precast concrete wall manufacturing source. ATMI-Indy, LLC was issued its first MSOP (M059-35314-00043) on March 24, 2015.

### Existing Approvals

The source was issued MSOP No. M059-35314-00043 on March 24, 2015. The source has since received the following approval:

(a) MSOP Interim SPR No. 059-41743I-00043, issued on September 12, 2019; and

(b) MSOP SPR No. 059-41743-00043, issued on October 15, 2019.

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

### Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units:

(a) One (1) 75-ton cement silo, identified as EU-1, constructed in 2001, with a maximum capacity of 4.5 tons per hour, using a baghouse (BH-1) as control, and exhausting to stack BH-1.

(b) One (1) 50-ton cement silo, identified as EU-2, constructed in 2001, with a maximum capacity of 4.5 tons per hour, using a baghouse (BH-2) as control, and exhausting to stack BH-2.

(c) One (1) electric cement mixer, identified as EU-3, constructed in 2001, with a maximum capacity of 8.25 tons of cement per hour combined with 46.75 tons of sand, aggregate, and water to produce 55.0 tons of concrete per hour, using no control and exhausting indoors.

(d) One (1) three-sided, covered sand storage bin, identified as EU-4, constructed in 2001, with a maximum capacity of 19 tons per hour, using no controls and exhausting outdoors.
(e) One (1) three-sided, covered aggregate storage bin, identified as EU-5, constructed in 2001, with a maximum capacity of 27 tons per hour, using no controls and exhausting outdoors.

(f) One (1) electric belt conveyor, identified as EU-6, constructed in 2001, with a maximum capacity of 46 tons per hour, using no control and exhausting indoors.

(g) One (1) skip hoist, identified as EU-7, constructed in 2001, with a maximum capacity of 46 tons per hour, using no control and exhausting indoors.

(h) One (1) coating operation, constructed in 2001, brush-applying mold release to metal mold forms MF-1, MF-2, MF-3, MF-1N, and MF-2N, using no control and exhausting indoors.

(i) One (1) natural gas fired process water heater, identified as EU-8, constructed in 2003, with a maximum heat input capacity of 2.50 MMBtu/hr, and exhausting to stack S-1.

(j) One (1) natural gas fired office rooftop HVAC unit, identified as EU-9, constructed in 2001, with a maximum heat input capacity of 0.23 MMBtu/hr, and exhausting to stack V-1.

(k) One (1) natural gas fired office rooftop HVAC unit, identified as EU-10, constructed in 2001, with a maximum heat input capacity of 0.12 MMBtu/hr, and exhausting to stack V-2.

(l) One (1) natural gas fired office rooftop HVAC unit, identified as EU-11, constructed in 2009, with a maximum heat input capacity of 0.15 MMBtu/hr, and exhausting to stack V-3.

(m) One (1) natural gas fired office rooftop HVAC unit, identified as EU-12, constructed in 2001, with a maximum heat input capacity of 1.45 MMBtu/hr, and exhausting to stack V-4.

(n) One (1) natural gas fired plant rooftop HVAC unit, identified as EU-13, constructed in 2001, with a maximum heat input capacity of 1.45 MMBtu/hr, and exhausting to stack V-5.

(o) One (1) natural gas fired infrared heater, identified as EU-14, constructed in 2013, with a maximum heat input capacity of 0.17 MMBtu/hr, and exhausting to stack V-6.

(p) One (1) natural gas fired infrared heater, identified as EU-15, constructed in 2013, with a maximum heat input capacity of 0.17 MMBtu/hr, and exhausting to stack V-7.

(q) One (1) natural gas fired infrared heater, identified as EU-16, constructed in 2013, with a maximum heat input capacity of 0.17 MMBtu/hr, and exhausting to stack V-8.

(r) One (1) production MIG welding operation, identified as W-1, constructed in 2001, with a maximum capacity of 0.06 pounds of wire per hour, and exhausting indoors.

(s) One (1) production plasma cutting operation, identified as C-1, constructed in 2001, with a maximum capacity of 0.01 inch of steel 0.75 inch thick per minute, and exhausting indoors.

(t) One (1) 500 gallon above ground off road diesel fuel tank, identified as T-3, constructed in 2001, with a maximum throughput of 14,000 gallons per year, using no control and exhausting outdoors.
(u) One (1) 300 gallon above ground gasoline tank, identified as T-4, constructed in 2001, with a maximum throughput of 1,300 gallons per year, using no control and exhausting outdoors.

(v) Unpaved roads with public access.

(w) Three (3) cement silos, identified as EU-17, EU-18, and EU-19, respectively, constructed in 2019, each with a maximum capacity of 4.5 tons/hour, using bin vent filters as controls, and exhausting indoors.

(x) One (1) outside sand storage bin, identified as EU-20, approved in 2019 for construction, with a maximum capacity of 2.08 tons/hour, using no controls, and exhausting indoors.

(y) Two (2) outside aggregate storage bins, identified as EU-21 and EU-22, respectively, approved in 2019 for construction, each with a maximum capacity of 2.08 tons/hour, using no controls, and exhausting indoors.

(z) Four (4) hoppers, identified as EU-23, EU-24, EU-25, and EU-26, respectively, constructed in 2019, each with a maximum capacity of 10.06 tons/hour, using no controls, and exhausting indoors.

(aa) One (1) feed hopper, identified as EU-27, approved in 2019 for construction, with a maximum capacity of 20.2 tons/hour, using no controls, and exhausting indoors.

(ab) One (1) skip hoist, identified as EU-28, constructed in 2019, with a maximum capacity of 20.17 tons/hour, using no controls, and exhausting indoors.

(ac) One (1) skip hoist, identified as EU-29, approved for construction in 2019, with a maximum capacity of 20.17 tons/hour, using no controls, and exhausting indoors.

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**Enforcement Issue**

There are no enforcement actions pending.

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**Emission Calculations**

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

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**County Attainment Status**

The source is located in Hancock County.

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>SO₂</td>
<td>Better than national standards.</td>
</tr>
<tr>
<td>CO</td>
<td>Unclassifiable or attainment effective November 15, 1990.</td>
</tr>
<tr>
<td>O₃</td>
<td>Unclassifiable or attainment effective January 16, 2018, for the 2015 8-hour ozone standard.</td>
</tr>
<tr>
<td>PM₂.₅</td>
<td>Unclassifiable or attainment effective April 15, 2015, for the 2012 annual PM₂.₅ standard.</td>
</tr>
<tr>
<td>PM₁₀</td>
<td>Unclassifiable effective November 15, 1990.</td>
</tr>
<tr>
<td>NO₂</td>
<td>Unclassifiable or attainment effective January 29, 2012, for the 2010 NO₂ standard.</td>
</tr>
<tr>
<td>Pb</td>
<td>Unclassifiable or attainment effective December 31, 2011, for the 2008 lead standard.</td>
</tr>
</tbody>
</table>
(a) Ozone Standards
Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Hancock County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(b) PM$_{2.5}$
Hancock County has been classified as attainment for PM$_{2.5}$. Therefore, direct PM$_{2.5}$, SO$_2$, and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

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

### Fugitive Emissions

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

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

The fugitive emissions of criteria pollutants and hazardous air pollutants (HAP) are counted toward the determination of MSOP (326 IAC 2-6.1) applicability and source status under Section 112 of the Clean Air Act (CAA).

### Greenhouse Gas (GHG) Emissions

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

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

### Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source.
### Unrestricted Potential Emissions (ton/year)

<table>
<thead>
<tr>
<th></th>
<th>PM¹</th>
<th>PM₁₀²</th>
<th>PM₂₅¹,²</th>
<th>SO₂</th>
<th>NOₓ</th>
<th>VOC</th>
<th>CO</th>
<th>Single HAP³</th>
<th>Total HAPs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total PTE of Entire Source Excluding Fugitive Emissions*</td>
<td>97.86</td>
<td>55.04</td>
<td>55.04</td>
<td>0.0132</td>
<td>2.21</td>
<td>35.50</td>
<td>1.85</td>
<td>0.056</td>
<td>0.098</td>
</tr>
<tr>
<td>Title V Major Source Thresholds</td>
<td>NA</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>10</td>
<td>25</td>
</tr>
<tr>
<td>Total PTE of Entire Source Including Source-Wide Fugitives*</td>
<td>252.80</td>
<td>94.53</td>
<td>58.99</td>
<td>0.0132</td>
<td>2.21</td>
<td>35.50</td>
<td>1.85</td>
<td>0.056</td>
<td>0.098</td>
</tr>
<tr>
<td>MSOP Thresholds</td>
<td>25</td>
<td>25</td>
<td>25</td>
<td>25</td>
<td>25</td>
<td>25</td>
<td>&lt; 100</td>
<td>&lt; 10</td>
<td>&lt; 25</td>
</tr>
</tbody>
</table>

¹Under the Part 70 Permit program (40 CFR 70), PM₁₀ and PM₂₅, not particulate matter (PM), are each considered as a "regulated air pollutant."
²PM₂₅ listed is direct PM₂₅.
³Single highest source-wide HAP.
*Fugitive HAP emissions are always included in the source-wide emissions.

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

(a) The potential to emit (as defined in 326 IAC 2-7-1(30)) of all regulated pollutants is less than 100 tons per year. However, PM₁₀, PM₂₅, and VOC are equal to or greater than twenty-five (25) tons per year. The source is not subject to the provisions of 326 IAC 2-7. The source will be issued an MSOP Renewal.

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

### Potential to Emit After Issuance

The table below summarizes the uncontrolled/unlimited potential to emit of the entire source. If the control equipment has been determined to be integral, the table reflects the potential to emit (PTE) after consideration of the integral control device.
### Potential To Emit of the Entire Source After Issuance of Renewal (tons/year)

<table>
<thead>
<tr>
<th></th>
<th>PM¹</th>
<th>PM₁₀¹</th>
<th>PM₂₅²³</th>
<th>SO₂</th>
<th>NOₓ</th>
<th>VOC</th>
<th>CO</th>
<th>Total HAPs</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total PTE of Entire Source</strong></td>
<td>97.86</td>
<td>55.04</td>
<td>55.04</td>
<td>0.01</td>
<td>2.21</td>
<td>35.50</td>
<td>1.85</td>
<td>0.10</td>
</tr>
<tr>
<td><strong>Title V Major Source Thresholds</strong></td>
<td>--</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td><strong>Total PTE of Entire Source Including Source-Wide Fugitives</strong>*</td>
<td>252.80</td>
<td>94.53</td>
<td>58.99</td>
<td>0.01</td>
<td>2.21</td>
<td>35.50</td>
<td>1.85</td>
<td>0.10</td>
</tr>
<tr>
<td><strong>MSOP Thresholds</strong></td>
<td>25</td>
<td>25</td>
<td>25</td>
<td>25</td>
<td>25</td>
<td>25</td>
<td>&lt;100</td>
<td>&lt;25</td>
</tr>
<tr>
<td><strong>PSD Major Source Thresholds</strong></td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Emission Offset Major Source Thresholds</strong></td>
<td>---</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>--</td>
</tr>
</tbody>
</table>

¹Under the Part 70 Permit program (40 CFR 70), PM₁₀ and PM₂₅, not particulate matter (PM), are each considered as a "regulated air pollutant."
²PM₂₅ listed is direct PM₂₅.
*Fugitive HAP emissions are always included in the source-wide emissions. Fugitive emissions do not count towards PSD and Part 70 applicability (see Fugitive Emissions section above for more details).

Appendix A of this TSD reflects the detailed unlimited/uncontrolled emissions of the source.

(a) The potential to emit (as defined in 326 IAC 2-1.1-1) of PM (including fugitive and non-fugitive emissions) is equal to or greater than two hundred fifty (250) tons per year. However, since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2-1(ff)(1), and there is no applicable New Source Performance Standard that was in effect on August 7, 1980, fugitive emissions are not counted toward the determination of PSD applicability. Therefore, this existing source is not a major stationary source, under PSD (326 IAC 2-2), because no PSD regulated pollutant (excluding fugitive emissions) is emitted at a rate of two hundred fifty (250) tons per year or more.

(b) This existing source is not a major source of HAP, as defined in 40 CFR 63.2, because HAP emissions are less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA).

### Federal Rule Applicability

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

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

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

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

(b) The gasoline tank, identified as T-4, is subject to the National Emission Standards for Hazardous Air Pollutants for Gasoline-Dispensing Facilities, 40 CFR 63, Subpart CCCCCC because this
facility stores and dispenses gasoline. The gasoline tank, identified as T-4, is subject to this rule include the following:

T-4 is subject to the following portions of Subpart CCCCCC:

1. 40 CFR 63.11110
2. 40 CFR 63.11111(a), (b), (e), (f), (h), (i)
3. 40 CFR 63.11112(a)
4. 40 CFR 63.11113(b), (c)
5. 40 CFR 11115
6. 40 CFR 63.11116(a)(1), (a)(2), (a)(3), (a)(4), (b), (c), (d)
7. 40 CFR 63.11130
8. 40 CFR 63.11131
9. 40 CFR 63.11132
10. Table 3

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 CCCCCC.

(c) There are no other National Emission Standards for Hazardous Air Pollutants under 40 CFR 63, 326 IAC 14 and 326 IAC 20 included in the permit.

(d) 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.

<table>
<thead>
<tr>
<th>State Rule Applicability - Entire Source</th>
</tr>
</thead>
</table>

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

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 Potential to Emit After Issuance section of this document.

326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset)
PSD and Emission Offset applicability is discussed under the Potential to Emit After Issuance section of this document.

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

326 IAC 2-6 (Emission Reporting)
This source is not subject to 326 IAC 2-6 (Emission Reporting) because it is not required to have an operating permit pursuant to 326 IAC 2-7 (Part 70); it is not located in Lake, Porter, or LaPorte County, and its potential to emit lead is less than 5 tons per year. Therefore, this rule does not apply.
326 IAC 5-1 (Opacity Limitations)

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

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

2. Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

326 IAC 6-4 (Fugitive Dust Emissions Limitations)

The source is subject to the requirements of 326 IAC 6-4, because the unpaved roads and materials storage piles within and around the entire source have the potential to emit fugitive particulate emissions. Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4.

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

This source was constructed after December 13, 1985 and has potential fugitive particulate emissions of twenty-five (25) tons per year or more. Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the Fugitive Dust Control Plan that is included as Attachment A to the permit.

326 IAC 6.5 (Particulate Matter Limitations Except Lake County)

Pursuant to 326 IAC 6.5-1-1(a), this source (located in Hancock County) is not subject to the requirements of 326 IAC 6.5 because it is not located in one of the following counties: Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo or Wayne.

326 IAC 6.8 (Particulate Matter Limitations for Lake County)

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

326 IAC 20 (Hazardous Air Pollutants)

See Federal Rule Applicability Section of this TSD.

State Rule Applicability – Individual Facilities

State rule applicability has been reviewed as follows:

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

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

\[ Pt = \frac{1.09}{Q^{0.26}} \]

Where:

- Pt = Pounds of particulate matter emitted per million British thermal units (lb/MMBtu).
- Q = Total source maximum operating capacity rating in MMBtu/hr heat input. The maximum operating capacity rating is defined as the maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the
facility’s permit application, except when some lower capacity is contained in the facility’s operation permit; in which case, the capacity specified in the operation permit shall be used.

Pursuant to 326 IAC 6-2-4(a), for Q less than 10 MMBtu/hr, Pt shall not exceed 0.6 lb/MMBtu.

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Unit ID</th>
<th>Construction Date (Removal Date)</th>
<th>Operational Capacity (MMBtu/hr)</th>
<th>Q (MMBtu/hr)</th>
<th>Pt (lb/MMBtu)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rooftop HVAC</td>
<td>EU-9</td>
<td>2001</td>
<td>0.23</td>
<td>1.80</td>
<td>0.6</td>
</tr>
<tr>
<td>Rooftop HVAC</td>
<td>EU-10</td>
<td>2001</td>
<td>0.12</td>
<td>1.80</td>
<td>0.6</td>
</tr>
<tr>
<td>Rooftop Heater</td>
<td>EU-13</td>
<td>2001</td>
<td>1.45</td>
<td>1.80</td>
<td>0.6</td>
</tr>
<tr>
<td>Water Heater</td>
<td>EU-8</td>
<td>2003</td>
<td>2.5</td>
<td>4.30</td>
<td>0.6</td>
</tr>
<tr>
<td>Rooftop HVAC</td>
<td>EU-11</td>
<td>2009</td>
<td>0.15</td>
<td>4.45</td>
<td>0.6</td>
</tr>
<tr>
<td>Tube Heater</td>
<td>EU-14</td>
<td>2013</td>
<td>0.17</td>
<td>4.96</td>
<td>0.6</td>
</tr>
<tr>
<td>Tube Heater</td>
<td>EU-15</td>
<td>2013</td>
<td>0.17</td>
<td>4.96</td>
<td>0.6</td>
</tr>
<tr>
<td>Gas Heater</td>
<td>EU-16</td>
<td>2013</td>
<td>0.17</td>
<td>4.96</td>
<td>0.6</td>
</tr>
<tr>
<td>Rooftop HVAC</td>
<td>EU-12</td>
<td>2014</td>
<td>0.18</td>
<td>5.14</td>
<td>0.6</td>
</tr>
</tbody>
</table>

Where: \( Q = \) Includes the capacity (MMBtu/hr) of the new unit(s) and the capacities for those unit(s) which were in operation at the source at the time the new unit(s) was constructed.

Note: All of the sources of indirect heating began operation after September 21, 1983. For this worst-case analysis, it is assumed that all space heaters and water heaters are considered sources of indirect heating.

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

Pursuant to 326 IAC 6-3-1(a), the requirements of 326 IAC 6-3-2 are applicable to the emissions units in listed below, since these units involve manufacturing process not exempted from this rule under 326 IAC 6-3-1(b) and is not subject to a particulate matter limitation that is as stringent as or more stringent than the particulate limitation established in this rule as specified in 326 IAC 6-3-1(c).

Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the process in this proposed revision shall not exceed \( E \) pounds per hour when operating at a process weight rate of \( P \) tons per hour. The pound per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

\[
(a) \quad E = 4.10 \times P^{0.67} \quad \text{where} \quad E = \text{rate of emission in pounds per hour and} \quad P = \text{process weight rate in tons per hour}
\]

**Summary of Process Weight Rate Limits**

<table>
<thead>
<tr>
<th>Process / Emission Unit</th>
<th>P (ton/hr)</th>
<th>E (lb/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU-1</td>
<td>4.5</td>
<td>11.23</td>
</tr>
<tr>
<td>EU-2</td>
<td>4.5</td>
<td>11.23</td>
</tr>
<tr>
<td>EU-3</td>
<td>8.25</td>
<td>16.86</td>
</tr>
<tr>
<td>EU-17</td>
<td>4.5</td>
<td>11.23</td>
</tr>
<tr>
<td>EU-18</td>
<td>4.5</td>
<td>11.23</td>
</tr>
<tr>
<td>EU-19</td>
<td>4.5</td>
<td>11.23</td>
</tr>
</tbody>
</table>

Based on calculations, the control devices are not needed to comply with these limits.
326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-1(b)(14), the following units are not subject to the requirements of 326 IAC 6-3, since the potential to emit particulate matter is below the 0.551 pounds per hour threshold. The units that are not subject to the requirements of 326 IAC 6-3-2 are as follows:

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>EU ID</th>
<th>PM PTE (lbs/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outside Sand Storage Bin</td>
<td>EU-20</td>
<td>0.0047</td>
</tr>
<tr>
<td>Outside Aggregate Storage Bin</td>
<td>EU-21</td>
<td>0.01</td>
</tr>
<tr>
<td>Outside Aggregate Storage Bin</td>
<td>EU-22</td>
<td>0.01</td>
</tr>
<tr>
<td>Hopper</td>
<td>EU-23</td>
<td>0.05</td>
</tr>
<tr>
<td>Hopper</td>
<td>EU-24</td>
<td>0.05</td>
</tr>
<tr>
<td>Hopper</td>
<td>EU-25</td>
<td>0.05</td>
</tr>
<tr>
<td>Hopper</td>
<td>EU-26</td>
<td>0.05</td>
</tr>
<tr>
<td>Feed Hopper</td>
<td>EU-27</td>
<td>0.10</td>
</tr>
<tr>
<td>Skip Hoist</td>
<td>EU-28</td>
<td>0.10</td>
</tr>
<tr>
<td>Skip Hoist</td>
<td>EU-29</td>
<td>0.10</td>
</tr>
<tr>
<td>Outside Sand Storage Bin</td>
<td>EU-4</td>
<td>0.04</td>
</tr>
<tr>
<td>Outside Aggregate Storage Bin</td>
<td>EU-5</td>
<td>0.19</td>
</tr>
<tr>
<td>Electric Conveyor Belt</td>
<td>EU-6</td>
<td>0.22</td>
</tr>
<tr>
<td>Skip Hoist</td>
<td>EU-7</td>
<td>0.22</td>
</tr>
<tr>
<td>Welding</td>
<td>W-1</td>
<td>0.00003</td>
</tr>
<tr>
<td>Flame Cutting</td>
<td>C-1</td>
<td>0.000002</td>
</tr>
</tbody>
</table>

326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
The coating operation applying mold release to metal mold forms MF-1, MF-2, MF-3, MF-1N, and MF-2N is not subject to the requirements of 326 IAC 8-1-6, since the VOC potential emissions from each facility are less than twenty-five (25) tons per year.

326 IAC 8-4-6 (Petroleum Sources: Gasoline Dispensing Facilities)
Pursuant to 326 IAC 8-4-1(d), 326 IAC 8-4-6(a) and 6(b) do not apply to the 300 gallon above ground gasoline tank, identified as T-4, because the monthly gasoline throughput is less than ten thousand (10,000) gallons per month.

Pursuant to 326 IAC 8-4-1(e), 326 IAC 8-4-6(c) does not apply to the 300 gallon above ground gasoline tank, identified as T-4, because the source is not located in Clark, Floyd, Lake, or Porter County.

326 IAC 8-2-9 (Miscellaneous Metal and Plastic Parts Coating Operations)
Pursuant to 326 IAC 8-2-9(a)1)(E), the coating operation applying mold release to metal mold forms MF-1, MF-2, MF-3, MF-1N, and MF-2N is not subject to 326 IAC 8-2-9 because the unit does not coat metal parts or products in SIC Code major groups #33, #34, #35, #36, #37, #38, or #39. The SIC code for the source is 3272, in major group #32.

<table>
<thead>
<tr>
<th>Compliance Determination and Monitoring Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>There are no compliance determination or monitoring requirements applicable to this source.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Conclusion and Recommendation</th>
</tr>
</thead>
<tbody>
<tr>
<td>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 November 19, 2019.</td>
</tr>
</tbody>
</table>

The operation of this insulated precast concrete wall manufacturing source shall be subject to the conditions of the attached proposed MSOP Renewal No. M059-42234-00043.

The staff recommends to the Commissioner that the MSOP Renewal be approved.
(a) If you have any questions regarding this permit, please contact Travis Flock, 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) 233-1782 or (800) 451-6027, and ask for Travis Flock or (317) 233-1782.

(b) A copy of the findings is available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/

(c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Air Permits page on the Internet at: http://www.in.gov/idem/airquality/2356.htm; and the Citizens’ Guide to IDEM on the Internet at: http://www.in.gov/idem/6900.htm.
# Entire Site Emissions Calculations

## Uncontrolled Potential to Emit (tons/yr)

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>PM</th>
<th>PM10</th>
<th>PM2.5</th>
<th>SO₂</th>
<th>NOₓ</th>
<th>VOC</th>
<th>CO</th>
<th>Total HAPs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outside sand and aggregate storage bins</td>
<td>1.16E-02</td>
<td>4.08E-03</td>
<td>4.08E-03</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Precast/Prestressed Concrete Wall Systems Manufacturing Operations</td>
<td>97.80</td>
<td>54.86</td>
<td>54.86</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Surface Coating (Mold Form Release)</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>35.32</td>
</tr>
<tr>
<td>Natural Gas Combustion</td>
<td>4.19E-02</td>
<td>0.17</td>
<td>0.17</td>
<td>1.32E-02</td>
<td>2.21</td>
<td>0.12</td>
<td>1.85</td>
<td>4.17E-02</td>
</tr>
<tr>
<td>Welding and Cutting</td>
<td>1.45E-03</td>
<td>1.45E-03</td>
<td>1.45E-03</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>2.10E-04</td>
</tr>
<tr>
<td>Diesel Fuel Tank (T-3)²</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>2.10E-04</td>
<td>2.10E-04</td>
</tr>
<tr>
<td>Gasoline Tank (T-4)²</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>5.60E-02</td>
<td>--</td>
<td>5.60E-02</td>
</tr>
<tr>
<td>Total Excluding Fugitives</td>
<td>97.86</td>
<td>55.04</td>
<td>55.04</td>
<td>0.01</td>
<td>2.21</td>
<td>35.50</td>
<td>1.85</td>
<td>0.10</td>
</tr>
<tr>
<td>Fugitive - Unpaved Roads</td>
<td>154.94</td>
<td>39.49</td>
<td>3.95</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Entire Source Total Including Fugitives</td>
<td>252.80</td>
<td>94.53</td>
<td>58.99</td>
<td>0.01</td>
<td>2.21</td>
<td>35.50</td>
<td>1.85</td>
<td>0.10</td>
</tr>
</tbody>
</table>

### Notes:
1. PM2.5 is direct PM2.5
2. TANKS 4.0 report provided by the source with Registration application 059-35063-00043 (withdrawn). Total HAPs considered equal to VOC as a worst case estimate because HAP speciation was not provided.
3. Prior assumptions for the diesel and gasoline storage tanks were made regarding VOC and HAP emissions under permit number M059-35314-00043, and calculations were not displayed on their own sheet, and instead were left only in the summary page.
Appendix A: Emissions Calculations
Material Storage Piles

Company Name: ATMI-Indy, LLC
Address City IN Zip: 6324 West Stoner Drive, Greenfield, Indiana 46140
Permit Number: 059-42234-00043
Reviewer: Travis Flock

The following calculations determine the amount of emissions created by wind erosion of storage stockpiles, based on 8,760 hours of use and USEPA's AP-42 (Pre 1983 Edition), Section 11.2.3.

\[
Ef = 1.7*(s/1.5)*(365-p)/235*(f/15)
\]

where \(Ef\) = emission factor (lb/acre/day)

\(s\) = silt content (wt %)

\(p\) = 125 days of rain greater than or equal to 0.01 inches

\(f\) = 15 % of wind greater than or equal to 12 mph

<table>
<thead>
<tr>
<th>Material</th>
<th>Silt Content (wt %) (^a)</th>
<th>Emission Factor (lb/acre/day)</th>
<th>Maximum Anticipated Pile Size (acres)</th>
<th>Limited PTE of PM (tons/yr)</th>
<th>Limited PTE of PM10/PM2.5 (tons/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sand</td>
<td>2.6</td>
<td>3.01</td>
<td>1.31E-02</td>
<td>7.21E-03</td>
<td>2.52E-03</td>
</tr>
<tr>
<td>Gravel</td>
<td>1.6</td>
<td>1.85</td>
<td>1.31E-02</td>
<td>4.44E-03</td>
<td>1.55E-03</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td><strong>1.16E-02</strong></td>
<td><strong>4.08E-03</strong></td>
<td><strong>1.16E-02</strong></td>
<td><strong>4.08E-03</strong></td>
<td></td>
</tr>
</tbody>
</table>

Bin dimensions from Form GSD-02

18.1 ft x 31.6 ft / 43,560 ft\(^2\)/acre = ####### acre

Methodology
Limited PTE of PM (tons/yr) = [Emission Factor (lb/acre/day)] * [Maximum Pile Size (acres)] * (ton/2000 lbs) * (8760 hours/yr)
Limited PTE of PM10/PM2.5 (tons/yr) = [Potential PM Emissions (tons/yr)] * 35%

\(^a\) Silt content values obtained from AP-42 Table 13.2.4-1 (dated 1/95)

Abbreviations
PM = Particulate Matter
PM10 = Particulate Matter (<10 um)
PM2.5 = Particulate Matter (<2.5 um)
PTE = Potential to Emit
### Appendix A: Emissions Calculations

**Concrete Wall Manufacturing Systems**

**Company Name:** ATMI-Indy, LLC  
**Address City IN Zip:** 6324 West Stoner Drive, Greenfield, Indiana 46140  
**Permit Number:** 059-42234-00043  
**Reviewer:** Travis Flock

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Unit Description</th>
<th>Process</th>
<th>Storage Capacity (tons)</th>
<th>Throughput Capacity (tons/hr)</th>
<th>PM Emission Factor (lb/ton)</th>
<th>PM10=PM2.5 Emission Factor (lb/ton)</th>
<th>PM (lbs/hr)</th>
<th>PM10=PM2.5 (lbs/hr)</th>
<th>PTE PM (tons/yr)</th>
<th>PM10=PM2.5 (tons/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU-1</td>
<td>Cement Silo</td>
<td>Cement unloading via closed pneumatic tanker</td>
<td>75</td>
<td>4.5</td>
<td>0.73</td>
<td>0.47</td>
<td>3.29</td>
<td>2.12</td>
<td>14.39</td>
<td>9.26</td>
</tr>
<tr>
<td>EU-2</td>
<td>Cement Silo</td>
<td>Cement unloading via closed pneumatic tanker</td>
<td>50</td>
<td>4.5</td>
<td>0.73</td>
<td>0.47</td>
<td>3.29</td>
<td>2.12</td>
<td>14.39</td>
<td>9.26</td>
</tr>
<tr>
<td>EU-3</td>
<td>Electric Mixer</td>
<td>Mixer loading sand and aggregate via skip hoist and cement from closed auger system</td>
<td>8.25</td>
<td>0.572</td>
<td>0.156</td>
<td>4.72</td>
<td>1.29</td>
<td>20.67</td>
<td>5.64</td>
<td></td>
</tr>
<tr>
<td>EU-4</td>
<td>Outside Sand Storage Bin</td>
<td>Sand loading via dump truck</td>
<td>180</td>
<td>19</td>
<td>0.0021</td>
<td>0.00099</td>
<td>0.04</td>
<td>0.02</td>
<td>0.17</td>
<td>0.08</td>
</tr>
<tr>
<td>EU-5</td>
<td>Outside Aggregate Storage Bin</td>
<td>Aggregate loading via dump truck</td>
<td>120</td>
<td>27</td>
<td>0.0069</td>
<td>0.0033</td>
<td>0.19</td>
<td>0.09</td>
<td>0.82</td>
<td>0.39</td>
</tr>
<tr>
<td>EU-6</td>
<td>Electric Conveyor Belt</td>
<td>Sand and aggregate gravity feed from hopper</td>
<td>46</td>
<td>0.0048</td>
<td>0.0028</td>
<td>0.22</td>
<td>0.13</td>
<td>0.97</td>
<td>0.56</td>
<td></td>
</tr>
</tbody>
</table>
Appendix A: Emissions Calculations
VOC and Particulate
From Surface Coating Operations

Company Name: ATMI-Indy, LLC
Address City IN Zip: 6324 West Stoner Drive, Greenfield, Indiana 46140
Permit Number: 059-41743-00043
Reviewer: Travis Flock

Material | Density (Lb/Gal) | Weight % Volatiles (H2O & Organics) | Weight % Water | Weight % Organics | Volume % Water | Volume % Non-Volatiles (solids) | Gal of Mat. (gal/unit) | Maximum unit/hour | Pounds VOC per gallon of coating less water | Pounds VOC per gallon of coating | Potential VOC pounds per hour | Potential VOC pounds per day | Potential VOC tons per year | Particulate Potential (ton/yr) | lb VOC/gal solids | Transfer Efficiency |
Grifcote FR-50-VOC | 6.9 | 55.1% | 0.0% | 44.9% | 3.8E-02 | 55.00 | 3.80 | 8.00 | 193.52 | 35.32 | 0.00 | 8.46 |

Total Potential to Emit
Add worst case coating to all solvents: 8.06 193.52 35.32 0.00

METHODOLOGY
Source reported material usage of:
2,978 gal of Grifcote (Jan 13 - Jun 14) = 165.44 average gallons/month
55,748 tons of mixed concrete (Jun 13 - Jun 14) = 4,288 average tons of concrete/month
165.44 (gal/mo) / 4,288 (tons/mo) = 3.86E-02 gal Grifcote/ton of concrete

Maximum (units/hr) the maximum capacity of the concrete mixer, 55 tons/hr

Pounds VOC per gallon of coating is worst-case value from product technical data sheet.
Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)
Particulate Potential Tons per Year = Particles (particle/unit) * Maximum (units/hr) * (1-Weight % Volatiles) * (1-Transfer efficiency) * (8760 hr/yr) * (1 ton/2000 lbs)
Pounds VOC per Galion of Solids = (Density (lb/gal) * Weight % Orgnaics) / (Volume % solids)

Total = Worst Coating + Sum of all solvents used

NOTE: The above VOC calculations are calculated under the worst case scenario coating, and the overall VOC PTE is the product of surface coating for five (5) separate molds, therefore the PTE for each unit/mold is 7.064, rendering each surface coating mold exempt under 326 IAC 8-1-1.
Appendix A: Emissions Calculations
Natural Gas Combustion Only

Includes:

<table>
<thead>
<tr>
<th>Description</th>
<th>Unit ID</th>
<th>Quantity</th>
<th>MM Btu/hr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Heater</td>
<td>EU-8</td>
<td>1</td>
<td>2.5</td>
</tr>
<tr>
<td>Rooftop HVAC</td>
<td>EU-9</td>
<td>1</td>
<td>0.23</td>
</tr>
<tr>
<td>Rooftop HVAC</td>
<td>EU-10</td>
<td>1</td>
<td>0.12</td>
</tr>
<tr>
<td>Rooftop HVAC</td>
<td>EU-11</td>
<td>1</td>
<td>0.15</td>
</tr>
<tr>
<td>Rooftop HVAC</td>
<td>EU-12</td>
<td>1</td>
<td>0.18</td>
</tr>
<tr>
<td>Rooftop Heater</td>
<td>EU-13</td>
<td>1</td>
<td>1.45</td>
</tr>
<tr>
<td>Tube Heater</td>
<td>EU-14, EU-15</td>
<td>2</td>
<td>0.17</td>
</tr>
<tr>
<td>Gas Heater</td>
<td>EU-16</td>
<td>1</td>
<td>0.17</td>
</tr>
</tbody>
</table>

Total 5.14

<table>
<thead>
<tr>
<th>Heat Input Capacity</th>
<th>HHV</th>
<th>Potential Throughput</th>
<th>mmscf</th>
<th>MMCF/yr</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMBtu/hr</td>
<td>mmBtu</td>
<td>mmscf</td>
<td>44.1</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>PM*</th>
<th>PM10*</th>
<th>direct PM2.5*</th>
<th>SO2</th>
<th>NOx</th>
<th>VOC</th>
<th>CO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emission Factor</td>
<td>1.9</td>
<td>7.6</td>
<td>7.6</td>
<td>0.6</td>
<td>100</td>
<td>5.5</td>
<td>84</td>
</tr>
</tbody>
</table>

Potential Emission in tons/yr: 4.19E-02, 0.17, 0.17, 1.32E-02, 2.21, 0.12, 1.85

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

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

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

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

HAPS Calculations

<table>
<thead>
<tr>
<th>Emission Factor in lb/MMcf</th>
<th>Benzene</th>
<th>Dichlorobenzene</th>
<th>Formaldehyde</th>
<th>Hexane 1.8E+00</th>
<th>Toluene 3.4E-03</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAPS - Organics</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emission Factor in lb/MMcf</td>
<td>2.1E-03</td>
<td>1.2E-03</td>
<td>7.5E-02</td>
<td>1.8E+00</td>
<td>3.4E-03</td>
</tr>
<tr>
<td>Potential Emission in tons/yr</td>
<td>4.64E-05</td>
<td>2.65E-05</td>
<td>1.66E-03</td>
<td>3.97E-02</td>
<td>7.50E-05</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HAPS - Metals</th>
<th>Lead 5.0E-04</th>
<th>Cadmium 1.1E-03</th>
<th>Chromium 1.4E-03</th>
<th>Manganese 3.8E-04</th>
<th>Nickel 2.1E-03</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emission Factor in lb/MMcf</td>
<td>5.0E-04</td>
<td>1.1E-03</td>
<td>1.4E-03</td>
<td>3.8E-04</td>
<td>2.1E-03</td>
</tr>
<tr>
<td>Potential Emission in tons/yr</td>
<td>1.10E-05</td>
<td>2.43E-05</td>
<td>3.09E-05</td>
<td>8.39E-06</td>
<td>4.64E-05</td>
</tr>
</tbody>
</table>

Methodology is the same as above.

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

Additional HAPS emission factors are available in AP-42, Chapter 1.4.
### Appendix A: Emissions Calculations

**Welding and Thermal Cutting**

**Company Name:** ATMI-Indy, LLC  
**Address City IN Zip:** 6324 West Stoner Drive, Greenfield, Indiana 46140  
**Permit Number:** 059-41743-00043  
**Reviewer:** Travis Flock

#### PROCESS Number of Max. electrode consumption per station (lbs/hr)

<table>
<thead>
<tr>
<th>PROCESS</th>
<th>Number of Stations</th>
<th>Max. electrode consumption per station (lbs/hr)</th>
<th>EMISSION FACTORS* (lb pollutant/lb electrode)</th>
<th>EMISSIONS (lbs/hr)</th>
<th>HAPS (lbs/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WELDING (W-1)</td>
<td></td>
<td></td>
<td>PM = PM10 Mn Ni Cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Submerged Arc</td>
<td>1</td>
<td>0.038</td>
<td>0.011</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Metal Inert Gas (MIG)(carbon steel)</td>
<td>1</td>
<td>0.0035</td>
<td>0.0005</td>
<td>3.00E-04</td>
<td>3.00E-05</td>
</tr>
<tr>
<td>Stick (E7018 electrode)</td>
<td>1</td>
<td>0.0211</td>
<td>0.0009</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Tungsten Inert Gas (TIG)(carbon steel)</td>
<td>1</td>
<td>0.0555</td>
<td>0.0005</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Oxyacetylene(carbon steel)</td>
<td>1</td>
<td>0.0055</td>
<td>0.0005</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

#### FLAME CUTTING (C-1) Number of Max. Metal Max. Metal EMISSION FACTORS* EMISSIONS HAPS

<table>
<thead>
<tr>
<th>FLAME CUTTING (C-1)</th>
<th>Number of Stations</th>
<th>Max. Metal Thickness (in.)</th>
<th>Max. Metal Cutting Rate (in./minute)</th>
<th>EMISSION FACTORS* (lb pollutant/lb electrode)</th>
<th>EMISSIONS (lbs/hr)</th>
<th>HAPS (lbs/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxyacetylene</td>
<td>1</td>
<td>0.1622</td>
<td>0.0005</td>
<td>0.0003</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Oxymethane</td>
<td>1</td>
<td>0.0815</td>
<td>0.0005</td>
<td>0.0002</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Plasma**</td>
<td>1</td>
<td>0.75</td>
<td>0.01</td>
<td>0.0039</td>
<td>1.76E-06</td>
<td>0</td>
</tr>
</tbody>
</table>

**EMISSION TOTALS**

<table>
<thead>
<tr>
<th></th>
<th>Potential Emissions lbs/hr</th>
<th>Potential Emissions lbs/day</th>
<th>Potential Emissions tons/year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3.32E-04</td>
<td>7.96E-03</td>
<td>1.45E-03</td>
</tr>
<tr>
<td></td>
<td>3.00E-05</td>
<td>7.20E-04</td>
<td>1.31E-04</td>
</tr>
<tr>
<td></td>
<td>3.00E-05</td>
<td>7.20E-04</td>
<td>1.31E-04</td>
</tr>
</tbody>
</table>

**Methodology:**

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

**Emission Factor for plasma cutting from American Welding Society (AWS). Trials reported for wet cutting of 8 mm thick mild steel with 3.5 m/min cutting speed (at 0.2 g/min emitted). Therefore, the emission factor for plasma cutting is for 8 mm thick rather than 1 inch, and the maximum metal thickness is not used in calculating the emissions.

Using AWS average values: (0.25 g/min)/(3.6 m/min) x (0.0022 lb/g)/(39.37 in./m) x (1,000 in.) = 0.0339 lb/1,000 in. cut, 8 mm thick

Plasma cutting emissions, lb/hr: (# of stations)(max. cutting rate, in./min)(0.0022 lb/g)(39.37 in./m) x (1,000 in.)

Cutting emissions, lb/hr: (# of stations)(max. metal thickness, in.)(max. cutting rate, in./min)(0.0022 lb/g)(39.37 in./m)

Emissions, lbs/day = emissions, lbs/hr x 24 hrs/day
Emissions, tons/yr = emissions, lbs/hr x 8,760 hrs/year x 1 ton/2,000 lbs
Appendix A: Emission Calculations
Fugitive Dust Emissions - Unpaved Roads

Company Name: ATMI-Indy, LLC
Address City IN Zip: 6324 West Stoner Drive, Greenfield, Indiana 46140
Permit Number: 059-41743-00043
Reviewer: Travis Flock

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

Vehicle Information (provided by source)

<table>
<thead>
<tr>
<th>Type</th>
<th>Maximum trips per day (trip/day)</th>
<th>Maximum Weight Loaded (tons/trip)</th>
<th>Total Weight Driven per day (tons/day)</th>
<th>Maximum one-way distance (miles/trip)</th>
<th>Maximum one-way distance (miles/mile/yr)</th>
<th>Maximum one-way distance (miles/mile/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle (entering plant)</td>
<td>600.0</td>
<td>40.0</td>
<td>24000.0</td>
<td>0.130</td>
<td>78.0</td>
<td>28470.0</td>
</tr>
<tr>
<td>Vehicle (leaving plant)</td>
<td>600.0</td>
<td>40.0</td>
<td>24000.0</td>
<td>0.130</td>
<td>78.0</td>
<td>28470.0</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td><strong>1200.0</strong></td>
<td><strong>8000.0</strong></td>
<td><strong>156.0</strong></td>
<td><strong>156.0</strong></td>
<td><strong>59340.0</strong></td>
<td><strong>59340.0</strong></td>
</tr>
</tbody>
</table>

Average Vehicle Weight Per Trip = Average Miles Per Trip =

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

where $k = 4.9$ $1.5$ $0.15$ lb/mi = particle size multiplier (AP-42 Table 13.2.2-2 for Industrial Roads)
$s = 4.8$ $4.8$ $4.8$ % = mean % silt content of unpaved roads (AP-42 Table 13.2.2-1 Sand/Gravel Processing Plant)
$a = 0.7$ $0.9$ $0.9$ = constant (AP-42 Table 13.2.2-2 for Industrial Roads)
$W = 40.0$ $40.0$ $40.0$ tons = average vehicle weight (provided by source)
$b = 0.45$ $0.45$ $0.45$ = constant (AP-42 Table 13.2.2-2 for Industrial Roads)

Mitigated Emission Factor, $E_{ext} = E_f \cdot \left[ \frac{365 - P}{365} \right]$ (Equation 2 from AP-42 13.2.2)

where $P = 125$ Days of rain greater than or equal to 0.01 inches (see Fig. 13.2.2-1)

Unmitigated Emission Factor =

$PM_{10}$ $PM_{2.5}$
8.28 2.11 0.21 lb/mile
Mitigated Emission Factor =

$PM_{10}$ $PM_{2.5}$
5.44 1.39 0.14 lb/mile

Dust Control Efficiency = 50% 50% 50%
(pursuant to control measures outlined in fugitive dust control plan)

<table>
<thead>
<tr>
<th>Process</th>
<th>Unmitigated PTE of PM (tons/yr)</th>
<th>Unmitigated PTE of PM10 (tons/yr)</th>
<th>Unmitigated PTE of PM2.5 (tons/yr)</th>
<th>Mitigated PTE of PM (tons/yr)</th>
<th>Mitigated PTE of PM10 (tons/yr)</th>
<th>Mitigated PTE of PM2.5 (tons/yr)</th>
<th>Controlled PTE of PM (tons/yr)</th>
<th>Controlled PTE of PM10 (tons/yr)</th>
<th>Controlled PTE of PM2.5 (tons/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle (entering plant)</td>
<td>117.82</td>
<td>30.05</td>
<td>3.00</td>
<td>77.47</td>
<td>19.74</td>
<td>1.97</td>
<td>38.74</td>
<td>9.87</td>
<td>0.99</td>
</tr>
<tr>
<td>Vehicle (leaving plant)</td>
<td>117.82</td>
<td>30.05</td>
<td>3.00</td>
<td>77.47</td>
<td>19.74</td>
<td>1.97</td>
<td>38.74</td>
<td>9.87</td>
<td>0.99</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td><strong>235.64</strong></td>
<td><strong>60.06</strong></td>
<td><strong>6.01</strong></td>
<td><strong>154.94</strong></td>
<td><strong>39.49</strong></td>
<td><strong>3.95</strong></td>
<td><strong>77.47</strong></td>
<td><strong>19.74</strong></td>
<td><strong>1.97</strong></td>
</tr>
</tbody>
</table>

Methodology

Total Weight Driven per day (ton/day) = [Maximum Weight Loaded (tons/day)] \* [Maximum trips per day (trip/day)]
Maximum one-way distance (miles) = [Maximum one-way distance (feet/mile)] / 5280 ft/mile
Average Vehicle Weight Per Trip (ton/mile) = SUM(Total Weight Driven per day (tons/day)) / SUM(Maximum trips per day (trip/day))

Abbreviations
$PM_{10}$ = Particulate Matter ($<10$ um)
$PM_{2.5}$ = Particulate Matter ($<2.5$ um)
PTE = Potential to Emit
January 3, 2020

Mr. Mark Pedron
Plant Manager
ATMI – Indy, LLC
6324 W. Stoner Dr.
Greenfield, IN 46140

Re: Public Notice
ATMI – Indy, LLC
Permit Level: MSOP - Renewal
Permit Number: 059-42234-00043

Dear Mr. Pedron:

Enclosed is a copy of your draft MSOP - Renewal, Technical Support Document, emission calculations, and the Public Notice.

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

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

OAQ has submitted the draft permit package to the Hancock Public Library, 900 W. McKenzie Road in Greenfield, IN 46140. As a reminder, you are obligated by 326 IAC 2-1.1-6(c) to place a copy of the complete permit application at this library no later than ten (10) days after submittal of the application or additional information to our department. We highly recommend that even if you have already placed these materials at the library, that you confirm with the library that these materials are available for review and request that the library keep the materials available for review during the entire permitting process.

Please review the enclosed documents carefully. This is your opportunity to comment on the draft permit and notify the OAQ of any corrections that are needed before the final decision. Questions or comments about the enclosed documents should be directed to Travis Flock, Indiana Department of Environmental Management, Office of Air Quality, 100 N. Senate Avenue, Indianapolis, Indiana, 46204 or call (800) 451-6027, and ask for extension 3-1782 or dial (317) 233-1782.

Sincerely,

Vicki Biddle

Vicki Biddle
Permits Branch
Office of Air Quality

Enclosures
PN Applicant Cover Letter 4/12/19
January 3, 2020

To: Hancock Public Library

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

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

 Applicant Name: ATMI – Indy, LLC
 Permit Number: 059-42234-00043

Enclosed is a copy of important information to make available to the public. This proposed project is regarding a source that may have the potential to significantly impact air quality. Librarians are encouraged to educate the public to make them aware of the availability of this information. The following information is enclosed for public reference at your library:

- Notice of a 30-day Period for Public Comment
- Draft Permit and Technical Support Document

You will not be responsible for collecting any comments from the citizens. Please refer all questions and request for the copies of any pertinent information to the person named below.

Members of your community could be very concerned in how these projects might affect them and their families. Please make this information readily available until you receive a copy of the final package.

If you have any questions concerning this public review process, please contact Joanne Smiddle-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185. Questions pertaining to the permit itself should be directed to the contact listed on the notice.

Enclosures
PN Library updated 4/2019
Notice of Public Comment

January 3, 2020
ATMI – Indy, LLC
059-42234-00043

Dear Concerned Citizen(s):

You have been identified as someone who could potentially be affected by this proposed air permit. The Indiana Department of Environmental Management, in our ongoing efforts to better communicate with concerned citizens, invites your comment on the draft permit.

Enclosed is a Notice of Public Comment, which has posted on IDEM’s Public Notice website at https://www.in.gov/idem/5474.htm.

The application and supporting documentation for this proposed permit have been placed at the library indicated in the Notice. These documents more fully describe the project, the applicable air pollution control requirements and how the applicant will comply with these requirements.

If you would like to comment on this draft permit, please contact the person named in the enclosed Public Notice. Thank you for your interest in the Indiana’s Air Permitting Program.

Please Note: If you feel you have received this Notice in error, or would like to be removed from the Air Permits mailing list, please contact Patricia Pear with the Air Permits Administration Section at 1-800-451-6027, ext. 3-6875 or via e-mail at PPEAR@IDEM.IN.GOV. If you have recently moved and this Notice has been forwarded to you, please notify us of your new address and if you wish to remain on the mailing list. Mail that is returned to IDEM by the Post Office with a forwarding address in a different county will be removed from our list unless otherwise requested.

Enclosure
PN AAA Cover Letter 4/12/2019
Mail Code 61-53

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<th>IDEM Staff</th>
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**Name and address of Sender**
- Indiana Department of Environmental Management
  - Office of Air Quality – Permits Branch
  - 100 N. Senate
  - Indianapolis, IN 46204

**Type of Mail:** CERTIFICATE OF MAILING ONLY

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