**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**
*We Protect Hoosiers and Our Environment.*
100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

**Michael R. Pence**
*Governor*

**Thomas W. Easterly**
*Commissioner*

TO: Interested Parties / Applicant

DATE: October 31, 2013

RE: MacAllister Machinery Co. / 027-33414-00061

FROM: Matthew Stuckey, Branch Chief
Permits Branch
Office of Air Quality

# Notice of Decision: Approval - Effective Immediately

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

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

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

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

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

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

Enclosures
FNPER.dot 6/13/13

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**Michael R. Pence**
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*Commissioner*

# New Source Construction and Minor Source Operating Permit OFFICE OF AIR QUALITY

## MacAllister Machinery Co.
## 1453 W. 150 S.
## Washington, Indiana 47501

(herein known as the Permittee) is hereby authorized to construct and 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 2-5.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a MSOP under 326 IAC 2-6.1.

| Operation Permit No. M027-33414-00061 | |
|---|---|
| Issued by:<br><br>Nathan C. Bell, Section Chief<br>Permits Branch<br>Office of Air Quality | Issuance Date: October 31, 2013<br><br>Expiration Date: October 31, 2018 |

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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 equipment repair facility.

| | |
|---|---|
| Source Address: | 1453 W. 150 S., Washington, Indiana 47501 |
| General Source Phone Number: | (812) 254-1712 |
| SIC Code: | 7699 (Repair Shops and Related Services, Not Elsewhere Classified) |
| County Location: | Daviess |
| Source Location Status: | Attainment for all criteria pollutants |
| Source Status: | Minor Source Operating Permit Program<br>Minor Source, under PSD<br>Minor Source, Section 112 of the Clean Air Act<br>Not 1 of 28 Source Categories |

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

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

(a) One (1) Paint Booth, identified as E01 located in the Wash Building, constructed in 1997, with a maximum capacity of 0.151 gallons of coating per hour, using one (1) high volume low pressure (HVLP) spray applicator with particulate emissions controlled using dry filter CE1, and exhausting to stack ES1.

(b) One (1) Paint Booth, identified as E02 located in the CRC Building, approved for construction in 2013, with a maximum capacity of 0.40 gallons of coating per hour, using one (1) high volume low pressure (HVLP) spray applicator with particulate emissions controlled using dry filter CE2, and exhausting to stack ES2.

(c) One (1) totally enclosed abrasive blasting operation, identified as E03, approved for construction in 2013, with fabric filter CE1 for control, using silica sand blast media with a maximum flow rate of 420 pounds of media per hour, having a nozzle pressure of 80 psig, a nozzle internal diameter of 0.31 inches, operating at a maximum gas flow rate of 1,800 acfm and exhausting to stack ES1.

(d) One (1) totally enclosed abrasive blasting operation, identified as E04, approved for construction in 2013, with fabric filter CE2 for control, using silica sand blast media with a maximum flow rate of 49 pounds of media per hour, having a nozzle pressure of 60 psig, a nozzle internal diameter of 0.13 inches, operating at a maximum gas flow rate of 100 acfm and exhausting indoors.

(e) Paved roads

(f) Fifteen (15) parts washers, identified as Parts Washers, approved for construction in 2013, with a combined maximum solvent usage of 1,200 gallons per year.

(g) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour as follows:

(1) Two (2) natural gas-fired space heaters, located in the Wash Building, each with a maximum heat input capacity of 1.085 MMBtu per hour, exhausting indoors.

(2) One (1) natural gas-fired space heater, located in the Service Bay, with a maximum heat input capacity of 2.22 MMBtu per hour, exhausting indoors.

(3) One (1) natural gas-fired space heater, located in the Track Shop, with a maximum heat input capacity of 0.635 MMBtu per hour, exhausting indoors.

(4) Four (4) natural gas-fired space heaters, located in the CRC Building, each with a maximum heat input capacity of 0.14 MMBtu per hour, exhausting indoors.

(5) Three (3) natural gas-fired space heaters, located in the Office Area, each with a maximum heat input capacity of 0.04 MMBtu per hour, exhausting indoors.

(6) One (1) natural gas-fired floor heat boiler, located in the Wash Building, with a maximum heat input capacity of 0.02 MMBtu per hour, exhausting indoors.

(7) Two (2) natural gas-fired water heaters, located in the Wash Building, each with a maximum heat input capacity of 0.02 MMBtu per hour, exhausting indoors.

(8) One (1) natural gas-fired hot pressure wash unit, located in the Wash Building, each with a maximum heat input capacity of 0.78 MMBtu per hour, exhausting indoors.

(h) Cleaners and solvents characterized as having a vapor pressure equal to or less than: two (2.0) kilo Pascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pound per square inch) measured at thirty-eight (38) degrees Centigrade (one hundred (100) degrees Fahrenheit); or (bb) seven-tenths (0.7) kilo Pascal (five (5) millimeters of mercury or one-tenth (0.1) pound per square inch) measured at twenty (20) degrees Centigrade (sixty-eight (68) degrees Fahrenheit); the use of which, for all cleaners and solvents combined, does not exceed one hundred forty-five (145) gallons per twelve (12) months.

## 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 Revocation of Permits [326 IAC 2-1.1-9(5)]

Pursuant to 326 IAC 2-1.1-9(5)(Revocation of Permits), the Commissioner may revoke this permit if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

### B.3 Affidavit of Construction [326 IAC 2-5.1-3(h)] [326 IAC 2-5.1-4]

This document shall also become the approval to operate pursuant to 326 IAC 2-5.1-4 when prior to the start of operation, the following requirements are met:

(a) The attached Affidavit of Construction shall be submitted to the Office of Air Quality (OAQ), verifying that the emission units were constructed as proposed in the application or the permit. The emission units covered in this permit may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM if constructed as proposed.

(b) If actual construction of the emission units differs from the construction proposed in the application, the source may not begin operation until the permit has been revised pursuant to 326 IAC 2 and an Operation Permit Validation Letter is issued.

(c) The Permittee shall attach the Operation Permit Validation Letter received from the Office of Air Quality (OAQ) to this permit.

### B.4 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, M027-33414-00061, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

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

### B.5 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.6 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.7 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.8 Property Rights or Exclusive Privilege

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

B.9 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.10 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.11 Preventive Maintenance Plan [326 IAC 1-6-3]

(a) If required by specific condition(s) in Section D of this permit, 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.

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

(c) To the extent the 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.12 Prior Permits Superseded [326 IAC 2-1.1-9.5]

(a) All terms and conditions of permits established prior to M027-33414-00061 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.13 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.14 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.15 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.16 Source Modification Requirement

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

B.17 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.18 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.19 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.20 Credible Evidence [326 IAC 1-1-6]

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

## SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

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

Pursuant to 326 IAC 2-1.1-9 (Revocation of Permits), this permit to construct and 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 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted.

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, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.

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

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

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

C.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) The first report shall cover the period commencing on the date of issuance of this permit or the date of initial start-up, whichever is later, and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this 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) Paint Booth, identified as E01 located in the Wash Building, constructed in 1997, with a maximum capacity of 0.151 gallons of coating per hour, using one (1) high volume low pressure (HVLP) spray applicator with particulate emissions controlled using dry filter CE1, and exhausting to stack ES1.

(b) One (1) Paint Booth, identified as E02, located in the CRC Building, approved for construction in 2013, with a maximum capacity of 0.40 gallons of coating per hour, using one (1) high volume low pressure (HVLP) spray applicator with particulate emissions controlled using dry filter CE2, and exhausting to stack ES2.

(c) One (1) totally enclosed abrasive blasting operation, identified as E03, approved for construction in 2013, with fabric filter CE1 for control, using silica sand blast media with a maximum flow rate of 420 pounds of media per hour, having a nozzle pressure of 80 psig, a nozzle internal diameter of 0.31 inches, operating at a maximum gas flow rate of 1,800 acfm and exhausting to stack ES1.

(d) One (1) totally enclosed abrasive blasting operation, identified as E04, approved for construction in 2013, with fabric filter CE2 for control, using silica sand blast media with a maximum flow rate of 49 pounds of media per hour, having a nozzle pressure of 60 psig, a nozzle internal diameter of 0.13 inches, operating at a maximum gas flow rate of 100 acfm and exhausting indoors.

(e) Fifteen (15) parts washers, identified as Parts Washers, approved for construction in 2013, with a combined maximum solvent usage of 1,200 gallons per year.

(g) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour as follows:

(1) One (1) natural gas-fired floor heat boiler, located in the Wash Building, with a maximum heat input capacity of 0.02 MMBtu per hour, exhausting indoors.

(2) Two (2) natural gas-fired water heaters, located in the Wash Building, each with a maximum heat input capacity of 0.02 MMBtu per hour, exhausting indoors.

(3) One (1) natural gas-fired hot pressure wash unit, located in the Wash Building, each with a maximum heat input capacity of 0.78 MMBtu per hour, 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 Emission Limitations [326 IAC 6-3-2]

(a) Pursuant to 326 IAC 6-3-2, the particulate emissions from the Abrasive Blast Unit E03 shall not exceed 25.4 pounds per hour when operating at a process weight rate of 15.21 tons per hour. The particulate emissions from the Abrasive Blast Unit E04 shall not exceed 25.2 pounds per hour when operating at a process weight rate of 15.02 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:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour and
P = process weight rate in tons per hour

(b) Pursuant to 326 IAC 6-3-2(d), particulate from paint booth E02 shall be controlled by dry particulate filter, waterwash, or an equivalent control device, subject to the following:

(1) The Permittee shall operate the control device in accordance with manufacturer's specifications.

(2) If overspray is visibly detected at the exhaust or accumulates on the ground, the source shall inspect the control device and do either of the following no later than four (4) hours after such observation:

(A) Repair control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground.

(B) Operate equipment so that no overspray is visibly detectable at the exhaust or accumulates on the ground.

If overspray is visibly detected, the source shall maintain a record of the action taken as a result of the inspection, any repairs of the control device, or change in operations, so that overspray is not visibly detected at the exhaust or accumulates on the ground. These records must be maintained for five (5) years.

D.1.2 Volatile Organic Compounds (VOC) [326 IAC 8-10]

The Permittee shall comply with the following:

(a) The VOC input to paint booth E01, including coatings, dilution solvents, and cleaning solvents, shall be less than fifteen (15) pounds per day.

(b) The VOC input to paint booth E02, including coatings, dilution solvents, and cleaning solvents, shall be less than fifteen (15) pounds per day.

Compliance with the above limits shall render the requirements of 326 IAC 8-10 not applicable to paint booths E01 and E02.

D.1.3 Particulate Emission Limitations for Sources of Indirect Heating [326 IAC 6-2]

Pursuant to 326 IAC 6-2-4, particulate emissions the natural gas fired boiler, water heaters and hot pressure wash shall each not exceed 0.6 pounds per million Btu (lb/MMBtu) of heat input.

D.1.4 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

(a) Pursuant to 326 IAC 8-3-2 (Cold Cleaner Degreaser Control Equipment and Operating Requirements), for cold cleaning degreasers constructed after January 1, 1980, the Permittee shall ensure the following control equipment and operating requirements are met:

(1) Equip the degreaser with a cover;

(2) Equip the degreaser with a device for draining cleaned parts;

(3) Close the degreaser cover whenever parts are not being handled in the degreaser;

(4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;

(5) Provide a permanent, conspicuous label that lists the operating requirements in subdivisions (3), (4), (6), and (7).

(6) Store waste solvent only in closed containers.

(7) Prohibit the disposal or transfer of waste solvent in such a manner that could allow greater than twenty percent (20%) of the waste solvent (by weight) to evaporate into the atmosphere.

(b) Pursuant to 326 IAC 8-3-2 (Cold Cleaner Degreaser Control Equipment and Operating Requirements), for cold cleaning degreasers without remote solvent reservoirs constructed after July 1, 1990, the Permittee shall ensure the following additional control equipment and operating requirements are met:

(1) Equip the degreaser with one (1) of the following control devices if the solvent is heated to a temperature of greater than forty-eight and nine-tenths (48.9) degrees Celsius (one hundred twenty (120) degrees Fahrenheit):

(A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.

(B) A water cover when solvent used is insoluble in, and heavier than, water.

(C) A refrigerated chiller.

(D) Carbon adsorption.

(E) An alternative system of demonstrated equivalent or better control as those outlined in clauses (A) through (D) that is approved by the department. An alternative system shall be submitted to the U.S. EPA as a SIP revision.

(2) Ensure the degreaser cover is designed so that it can be easily operated with one (1) hand if the solvent is agitated or heated.

(3) If used, solvent spray:

(A) must be a solid, fluid stream; and

(B) shall be applied at a pressure that does not cause excessive splashing.

D.1.5 Volatile Organic Compounds (VOC) [326 IAC 8-3-8]

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

D.1.6 Preventive Maintenance Plan [326 IAC 1-6-3]

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

**Compliance Monitoring Requirements [326 IAC 2-6.1-5(a)(2)]**

D.1.7 Visible Emissions Notations

(a) Visible emission notations of the abrasive blasting operation E03 stack exhaust ES1 shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps. Failure to take response steps shall be considered a deviation from this permit. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition.

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

D.1.8 Record Keeping Requirements

(a) To document compliance with Condition D.1.2, the Permittee shall maintain records in accordance with (1) through (3) below for each booth. Records maintained for (1) through (3) shall be taken daily and shall be complete and sufficient to establish compliance with the VOC input limit established in Conditions D.1.2. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.

(1) The VOC content of each coating material and solvent used less water.

(2) The amount of coating material and solvent used on a daily basis.

(A) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.

(B) The source shall maintain daily records showing that each surface coating booth actual VOC is less than 15 lbs per day, each.

(3) The VOC input each day to each of the paint booths (E01 and E02).

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

(1) The name and address of the solvent supplier.
(2) The date of purchase (or invoice/bill dates of contract servicer indicating service date).
(3) The type of solvent purchased.
(4) The total volume of the solvent purchased.

(5) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

(c) To document the compliance status with Condition D.1.1(b), the Permittee shall maintain a record of any actions taken if overspray is visibly detected.

(d) To document the compliance status with Condition D.1.7, the Permittee shall maintain daily records of the visible emission notations of the abrasive blasting operation E03 stack exhaust ES1. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of a visible emission notation (e.g., the process did not operate that day).

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

D.1.9 Reporting Requirements

A quarterly summary of the information to document the compliance status with Condition D.1.2 shall be submitted using the reporting forms located at the end of this permit, or their equivalent, not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition.

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

**MSOP VOC USAGE QUARTERLY REPORT FORM**

Source Name: MacAllister Machinery Co., Inc.
Source Address: 1453 W. 150 S., Washington, IN 47501
MSOP Permit No.: M027-33414-00061
Facility: Paint Booths E01 and E02
Parameter: VOC Input
Limit: Less than fifteen (15) pounds per day for each booth

**Month:** _____ **Year:** _____

| Day | Paint Booth E01 (lb/day) | Paint Booth E02 (lb/day) | Day | Paint Booth E01 (lb/day) | Paint Booth E02 (lb/day) |
|---|---|---|---|---|---|
| 1 | | | 17 | | |
| 2 | | | 18 | | |
| 3 | | | 19 | | |
| 4 | | | 20 | | |
| 5 | | | 21 | | |
| 6 | | | 22 | | |
| 7 | | | 23 | | |
| 8 | | | 24 | | |
| 9 | | | 25 | | |
| 10 | | | 26 | | |
| 11 | | | 27 | | |
| 12 | | | 28 | | |
| 13 | | | 29 | | |
| 14 | | | 30 | | |
| 15 | | | 31 | | |
| 16 | | | | | |

□ No deviation occurred in this month.

□ Deviation/s occurred in this month.
Deviation has been reported on_____

Submitted by: _____

Title / Position: _____

Signature:_____

Date: _____

Phone: _____

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

**MINOR SOURCE OPERATING PERMIT**
**ANNUAL NOTIFICATION**

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

| | |
|---|---|
| **Company Name:** | MacAllister Machinery Co. |
| **Address:** | 1453 W. 150 S. |
| **City:** | Washington, Indiana 47501 |
| **Phone #:** | (812) 254-1712 |
| **MSOP #:** | M027-33414-00061 |

I hereby certify that MacAllister Machinery Co. is :
☐ still in operation.
☐ no longer in operation.

I hereby certify that MacAllister Machinery Co. is :
☐ in compliance with the requirements of MSOP M027-33414-00061.
☐ not in compliance with the requirements of MSOP M027-33414-00061.

| |
|---|
| **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.

| |
|---|
| **Noncompliance:** |
| |
| |
| |
| |

## MALFUNCTION REPORT

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

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

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

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

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

_____
_____

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

MacAllister Machinery Co.
1453 W. 150 S.
Washington, Indiana 47501

Affidavit of Construction

I, _____, being duly sworn upon my oath, depose and say:
(Name of the Authorized Representative)

1. I live in _____ County, Indiana and being of sound mind and over twenty-one (21) years of age, I am competent to give this affidavit.

2. I hold the position of _____ for _____.
(Title) (Company Name)

3. By virtue of my position with _____, I have personal
(Company Name)
knowledge of the representations contained in this affidavit and am authorized to make these representations on behalf of _____.
(Company Name)

4. I hereby certify that MacAllister Machinery Co. 1453 W. 150 S., Washington, Indiana 47501, completed construction of the Equipment Repair Facility on _____in conformity with the requirements and intent of the construction permit application received by the Office of Air Quality on July 10, 2013 and as permitted pursuant to New Source Construction Permit and Minor Source Operating Permit No. M027-33414-00061, Plant ID No. 027-00061 issued on _____.

5. **Permittee, please cross out the following statement if it does not apply:** Additional (operations/facilities) were constructed/substituted as described in the attachment to this document and were not made in accordance with the construction permit.

Further Affiant said not.

I affirm under penalties of perjury that the representations contained in this affidavit are true, to the best of my information and belief.

Signature_____
Date_____

STATE OF INDIANA)
)SS

COUNTY OF _____ )

Subscribed and sworn to me, a notary public in and for _____ County and State of Indiana

on this _____ day of _____, 20 _____. My Commission expires: _____.

Signature_____
Name_____ (typed or printed)

# Indiana Department of Environmental Management
# Office of Air Quality

## Technical Support Document (TSD) for a
## New Source Construction and Minor Source Operating Permit (MSOP)

### Source Description and Location

| | |
|---|---|
| Source Name: | MacAllister Machinery Co., Inc. |
| Source Location: | 1453 W. 150 S., Washington, IN 47501 |
| County: | Daviess |
| SIC Code: | 7699 (Repair Shops and Related Services, Not Elsewhere Classified) |
| Operation Permit No.: | M027-33414-00061 |
| Permit Reviewer: | Heath Hartley |

On July 10, 2013, the Office of Air Quality (OAQ) received an application from MacAllister Machinery Co., Inc. related to the construction and operation of a new equipment repair facility.

### Existing Approvals

There have been no previous approvals issued to this source.

### County Attainment Status

The source is located in Daviess County (Washington Township).

| Pollutant | Designation |
|---|---|
| $SO_2$ | Better than national standards. |
| CO | Unclassifiable or attainment effective November 15, 1990. |
| $O_3$ | Unclassifiable or attainment effective June 15, 2004, for the 8-hour ozone standard.[1] |
| $PM_{10}$ | Unclassifiable effective November 15, 1990. |
| $NO_2$ | Cannot be classified or better than national standards. |
| Pb | Not designated. |

[1]Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.
Unclassifiable or attainment effective April 5, 2005, for $PM_{2.5}$.

(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. Daviess County (Washington Township) 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) $PM_{2.5}$
Daviess County (Washington Township) has been classified as attainment for $PM_{2.5}$. On May 8, 2008 U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for $PM_{2.5}$ emissions. These rules became effective on July 15, 2008. On May 4, 2011 the air pollution control board issued an emergency rule establishing the direct $PM_{2.5}$ significant level at ten (10) tons per year. This rule became effective, June 28, 2011. Therefore, direct $PM_{2.5}$ and

$SO_2$ emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.

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

**Fugitive Emissions**

(a) The fugitive emissions of criteria pollutants and hazardous air pollutants are counted toward the determination of 326 IAC 2-6.1 (Minor Source Operating Permits) applicability.

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

**Background and Description of New Source Construction**

The Office of Air Quality (OAQ) has reviewed an application, submitted by MacAllister Machinery Co., Inc. on July 10, 2013, relating to the construction and operation of a new equipment repair facility.

The following is a list of the new emission unit(s) and pollution control device(s):

(a) One (1) Paint Booth, identified as E01, located in the Wash Building, constructed in 1997, with a maximum capacity of 0.151 gallons of coating per hour, using one (1) high volume low pressure (HVLP) spray applicator with particulate emissions controlled using dry filter CE1, and exhausting to stack ES1.

(b) One (1) Paint Booth, identified as E02, located in the CRC Building, approved for construction in 2013, with a maximum capacity of 0.40 gallons of coating per hour, using one (1) high volume low pressure (HVLP) spray applicator with particulate emissions controlled using dry filter CE2, and exhausting to stack ES2.

(c) One (1) totally enclosed abrasive blasting operation, identified as E03, approved for construction in 2013, with fabric filter CE1 for control, using silica sand blast media with a maximum flow rate of 420 pounds of media per hour, having a nozzle pressure of 80 psig, a nozzle internal diameter of 0.31 inches, operating at a maximum gas flow rate of 1,800 acfm and exhausting to stack ES1.

(d) One (1) totally enclosed abrasive blasting operation, identified as E04, approved for construction in 2013, with fabric filter CE2 for control, using silica sand blast media with a maximum flow rate of 49 pounds of media per hour, having a nozzle pressure of 60 psig, a nozzle internal diameter of 0.13 inches, operating at a maximum gas flow rate of 100 acfm and exhausting indoors.

(e) Paved roads.

(f) Fifteen (15) parts washers, identified as Parts Washers, approved for construction in 2013, with a combined maximum solvent usage of 1,200 gallons per year.

(g) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour as follows:

(1) Two (2) natural gas-fired space heaters, located in the Wash Building, each with a maximum heat input capacity of 1.085 MMBtu per hour, exhausting indoors.

(2) One (1) natural gas-fired space heater, located in the Service Bay, with a maximum heat input capacity of 2.22 MMBtu per hour, exhausting indoors.

(3) One (1) natural gas-fired space heater, located in the Track Shop, with a maximum heat input capacity of 0.635 MMBtu per hour, exhausting indoors.

(4) Four (4) natural gas-fired space heaters, located in the CRC Building, each with a maximum heat input capacity of 0.14 MMBtu per hour, exhausting indoors.

(5) Three (3) natural gas-fired space heaters, located in the Office Area, each with a maximum heat input capacity of 0.04 MMBtu per hour, exhausting indoors.

(6) One (1) natural gas-fired floor heat boiler, located in the Wash Building, with a maximum heat input capacity of 0.02 MMBtu per hour, exhausting indoors.

(7) Two (2) natural gas-fired water heaters, located in the Wash Building, each with a maximum heat input capacity of 0.02 MMBtu per hour, exhausting indoors.

(8) One (1) natural gas-fired hot pressure wash unit, located in the Wash Building, each with a maximum heat input capacity of 0.78 MMBtu per hour, exhausting indoors.

(h) Cleaners and solvents characterized as having a vapor pressure equal to or less than: two (2.0) kilo Pascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pound per square inch) measured at thirty-eight (38) degrees Centigrade (one hundred (100) degrees Fahrenheit); or (bb) seven-tenths (0.7) kilo Pascal (five (5) millimeters of mercury or one-tenth (0.1) pound per square inch) measured at twenty (20) degrees Centigrade (sixty-eight (68) degrees Fahrenheit); the use of which, for all cleaners and solvents combined, does not exceed one hundred forty-five (145) gallons per twelve (12) months.

## Enforcement Issues

There are no pending enforcement actions related to this source.

## Emission Calculations

See Appendix A of this TSD for detailed emission calculations.

## Permit Level Determination – MSOP

The following table reflects the unlimited potential to emit (PTE) of the entire source before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

| Pollutant | Potential To Emit (tons/year) |
|---|---|
| PM | 87.3 |
| PM10[(1)] | 61.1 |
| PM2.5 | 60.8 |
| $SO_2$ | 0.02 |
| $NO_x$ | 2.87 |
| VOC | 18.9 |
| CO | 2.41 |
| GHGs as $CO_2e$ | 3,461 |

(1) Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10) and particulate matter

with an aerodynamic diameter less than or equal to a nominal 2.5 micrometers (PM2.5), not particulate matter (PM), are each considered as a "regulated air pollutant".

| HAPs | Potential To Emit (tons/year) |
|---|---|
| Xylene | 4.15 |
| Ethylbenzene | 1.65 |
| Toluene | 0.42 |
| Naphthanlene | 0.13 |
| Cumene | 0.13 |
| Hexane | 0.06 |
| **TOTAL HAPs** | **6.53** |

(a) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) of PM10, and PM2.5 are each less than one hundred (100) tons per year, but greater than or equal to twenty-five (25) tons per year. The PTE of all other regulated criteria pollutants are less than twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-6.1. A Minor Source Operating Permit (MSOP) will be issued.

(b) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) of any single HAP is less than ten (10) tons per year and the PTE 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.

(c) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) greenhouse gases (GHGs) is less than the Title V subject to regulation threshold of one hundred thousand (100,000) tons of $CO_2$ equivalent emissions ($CO_2e$) per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.

## Federal Rule Applicability Determination

New Source Performance Standards (NSPS)

(a) The requirements of the New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units, 40 CFR 60, Subpart Dc (326 IAC 12), are not included for the floor heat boiler because it has a heat input capacity of less than ten (10) MMBtu per hour.

(b) The requirements of the New Source Performance Standard for Surface Coating of Metal Furniture, 40 CFR 60, Subpart EE (326 IAC 12), are not included in the permit, since the painting operation at this source does not perform surface coating of metal furniture.

(c) The requirements of the New Source Performance Standard (NSPS) for Automobile and Light Duty Truck Surface Coating Operations, 40 CFR 60, Subpart MM (326 IAC 12), are not included in the permit, since this source is not an automobile or light-duty truck assembly plant .

(d) The requirements of the New Source Performance Standard (NSPS) for Industrial Surface Coating: Large Appliances, 40 CFR 60, Subpart SS (326 IAC 12), are not included in the permit, since the painting operation at this source does not perform surface coating of large appliance products or parts (as defined by 40 CFR 60.451).

(e) 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)

(f) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Halogenated Solvent Cleaning, 40 CFR 63, Subpart T (326 IAC 20-6), are not included in the permit, because the degreasing operation at this source does not use a degreasing solvent that contains any of the halogenated compounds listed in 40 CFR 63.460(a).

(g) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs): Surface Coating of Automobiles and Light-Duty Trucks, 40 CFR 63, Subpart IIII (326 IAC 20-85), are not included in the permit, since this source is not a major source of HAPs.

(h) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Surface Coating of Miscellaneous Metal Parts and Products, 40 CFR 63, Subpart MMMM (326 IAC 20-80), are not included in the permit, since this source is not a major source of HAPs.

(i) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Surface Coating of Plastic Parts and Products, 40 CFR 63, Subpart PPPP (326 IAC 20-81), are not included in the permit for the painting operation, because this source is not a major source of HAPs and does not perform surface coating of plastic parts or plastic products.

(j) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR 63, Subpart DDDDD, (326 IAC 20-95), are not included in the permit, since this source is not a major source of HAPs.

(k) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Industrial, Commercial, and Institutional Boilers Area Sources, 40 CFR 63, Subpart JJJJJJ (6J), since the boiler is fired with natural gas, which is exempt under §63.11195(e).

(l) The requirements of 40 CFR Part 63, Subpart HHHHHH (National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources), are not included in this permit because this source does not perform paint stripping using chemical strippers that contain methylene chloride in the removal of dried paint, and does not perform spray application of coating that contains chromium, lead, manganese, nickel, or cadmium to a plastic and/or metal substrates. The operations at this source fall under SIC code 7699 (NAICS code 811310), which are not one of the source categories listed in for this rule (see Federal Register, 73 FR 1739, January 9, 2008, for the list of NAICS codes for regulated source categories).

Although the surface coating of metal parts meets the definition (under 40 CFR 63.11180) of a "miscellaneous surface coating operation", where surface coatings are applied to "miscellaneous parts and/or products" made of metal, the coatings used do contain any of the target HAPs as defined under 40 CFR 63.11180.

(m) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, 40 CFR 63, Subpart XXXXXX, are not included in the permit, because the operations at this source fall under SIC code 7699 (NAICS code 811310), which are not one of the nine source categories listed in 40 CFR 63.11514 (see Federal Register, 73 FR 43000, July 23, 2008, for the list of NAICS codes for regulated source categories).

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

Compliance Assurance Monitoring (CAM)

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

**State Rule Applicability Determination**

The following state rules are applicable to the source:

(a) 326 IAC 2-6.1 (Minor Source Operating Permits (MSOP))
MSOP applicability is discussed under the Permit Level Determination – MSOP section above.

(b) 326 IAC 2-2 (Prevention of Significant Deterioration (PSD))
This source is not a major stationary source, under PSD (326 IAC 2-2), because the potential to emit of all attainment regulated criteria pollutants are less than 250 tons per year, the potential to emit greenhouse gases (GHGs) is less than 100,000 tons of $CO_2e$ per year, and this source is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(ff)(1). Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

(c) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
The potential to emit of any single HAP is less than ten (10) tons per year and the potential to emit of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-4.1.

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

(e) 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.

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

(g) 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)
The source is not subject to the requirements of 326 IAC 6-5, because the source does not have potential fugitive particulate emissions greater than 25 tons per year. Therefore, 326 IAC 6-5 does not apply.

(h) 326 IAC 6.5 PM Limitations Except Lake County
This source is not subject to 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.

(i) 326 IAC 6.8 PM Limitations for Lake County
This source is not subject to 326 IAC 6.8 because it is not located in Lake County.

(j) 326 IAC 12 (New Source Performance Standards)
See Federal Rule Applicability Section of this TSD.

(k) 326 IAC 20 (Hazardous Air Pollutants)
See Federal Rule Applicability Section of this TSD.

Paint Booths E01 and E02

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

(1) Pursuant to 326 IAC 6-3-1(b)(15), since paint booth E01 has potential paint usage rate of less than five (5) gallons per day, E01 is exempt from 326 IAC 6-3-2(d).

(2) Pursuant to 326 IAC 6-3-2(d), particulate from paint booth E02 shall be controlled by dry particulate filter, waterwash, or an equivalent control device, subject to the following:

(A) The Permittee shall operate the control device in accordance with manufacturer's specifications.

(B) If overspray is visibly detected at the exhaust or accumulates on the ground, the source shall inspect the control device and do either of the following no later than four (4) hours after such observation:

(i) Repair control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground.

(ii) Operate equipment so that no overspray is visibly detectable at the exhaust or accumulates on the ground.

If overspray is visibly detected, the source shall maintain a record of the action taken as a result of the inspection, any repairs of the control device, or change in operations, so that overspray is not visibly detected at the exhaust or accumulates on the ground. These records must be maintained for five (5) years.

(m) 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
Each paint booth (E01 and E02) is not subject to the requirements of 326 IAC 8-1-6, since the unlimited VOC potential emissions from each paint booths E01 and E02 is less than twenty-five (25) tons per year.

(n) 326 IAC 8-2-9 (Miscellaneous Metal and Plastic Coating Operations)
Pursuant to 326 IAC 8-2-9(b)(4), since the source applies customized top coating of trucks (touch-up) with production less than thirty-five (35) vehicles per day, paint booths E01 and E02 are not subject to the requirements of 326 IAC 8-2-9.

(o) 326 IAC 8-10 (Automobile Refinishing)
Pursuant to 326 IAC 8-10(b)(3), the source operates a facility that refinishes motor vehicles, motor vehicle parts, motor vehicle components or mobile equipment. In order to render the requirements 326 IAC 8-10 not applicable, the source has agreed to limit VOC emissions from each of the paint booths (E01 and E02) to less than fifteen (15) pounds per day. The Permittee shall comply with the following:

(a) The VOC input to paint booth E01, including coatings, dilution solvents, and cleaning solvents, shall be less than fifteen (15) pounds per day.

(b) The VOC input to paint booth E02, including coatings, dilution solvents, and cleaning solvents, shall be less than fifteen (15) pounds per day.

Compliance with the above limits shall render the requirements of 326 IAC 8-10 not applicable to paint booths E01 and E02.

(p) There are no 326 IAC 8 Rules that are applicable to the paint booths E01 and E02.

Abrasive Blast Units E03 and E04

(q) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-1(b), the requirements of 326 IAC 6-3-2 are applicable to each of the Abrasive Blast Units E03 and E04, since each of these units has potential particulate emissions greater than five hundred fifty-one thousandths (0.551) pound per hour. Pursuant to 326 IAC 6-3-2, the particulate emissions from the Abrasive Blast Unit E03 shall not exceed 25.4 pounds per hour when operating at a process weight rate of 15.21 (420 lb abrasive per hour + 30,000 lb part per hour) tons per hour. The particulate emissions from the Abrasive Blast Unit E04 shall not exceed 25.2 pounds per hour when operating at a process weight rate of 15.02 (49 lb abrasive per hour + 30,000 pound parts per hour) 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:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour and
P = process weight rate in tons per hour

Based on calculations, Abrasive Blast Units E03 and E04 are able to comply with 326 IAC 6-3-2 allowable emission rates without the use of the fabric filters.

Parts Washers

(r) 326 IAC 8-3-2 and 326 IAC 8-3-8 (Cold Cleaner Operation)
The cold cleaner degreasing operations that do not have remote solvent reservoirs were installed after January 1, 1990. Therefore, pursuant to 326 IAC 8-3-1(c)(2)(A), they are subject to 326 IAC 8-3-2. On January 1, 2015, the cold cleaner degreaser will be suject to 326 IAC 8-3-8, pursuant to 326 IAC 8-3-1(c)(3)(B).

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Degreaser Control Equipment and Operating Requirements), the Permittee shall ensure the following control equipment and operating requirements are met for each of the degreasing operations:

(a) Ensure the following control equipment and operating requirements are met:

(1) Equip the degreaser with a cover.

(2) Equip the degreaser with a device for draining cleaned parts.

(3) Close the degreaser cover whenever parts are not being handled in the degreaser.

(4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases.

(5) Provide a permanent, conspicuous label that lists the operating requirements in subdivisions (3), (4), (6), and (7).

(6) Store waste solvent only in covered containers.

(7) Prohibit the disposal or transfer of waste solvent in such a manner that could allow greater than twenty percent (20%) of the waste solvent (by weight) to evaporate into the atmosphere.

(b) Ensure the following additional control equipment and operating requirements are met:

(1) Equip the degreaser with one (1) of the following control devices if the solvent is heated to a temperature of greater than forty-eight and nine-tenths (48.9) degrees Celsius (one hundred twenty (120) degrees Fahrenheit):

(A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.

(B) A water cover when solvent used is insoluble in, and heavier than, water.

(C) A refrigerated chiller.

(D) Carbon adsorption.

(E) An alternative system of demonstrated equivalent or better control as those outlined in clauses (A) through (D) that is approved by the department. An alternative system shall be submitted to the U.S. EPA as a SIP revision.

(2) Ensure the degreaser cover is designed so that it can be easily operated with one (1) hand if the solvent is agitated or heated.

(3) If used, solvent spray:

(A) must be a solid, fluid stream; and

(B) shall be applied at a pressure that does not cause excessive splashing.

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

Natural Gas Combustion units

(s) 326 IAC 6-2 (Particulate Limitations for Sources of Indirect Heating)
The natural gas-fired space heaters are not subject to the provisions of 326 IAC 6-2, because these facilities are not sources of indirect heating.

Pursuant to 326 IAC 6-2-1(d), the natural gas fired boiler, water heaters and hot pressure wash are subject to 326 IAC 6-2-4 since they are each a source of indirect heat constructed after September 21, 1983.

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

Where: Pt = Pounds of particulate matter emitted per million Btu (lb/MMBtu) heat input; and
Q = Total source maximum operating capacity rating in million Btu per hour (MMBtu/hr) heat input. Q = 0.82 MMBtu/hr (0.02 + 0.02 + 0.78)

For a total source maximum operating capacity rating (Q) less than 10 MMBtu/hr, particulate emissions (Pt) shall not exceed 0.6 pound per MMBtu of heat input.

Based on the AP-42, Chapter 1.4, uncontrolled natural gas combustion particulate emission factor of 1.9 pounds per million cubic foot (MMCF) of natural gas, the natural gas fired boiler, water heater and hot pressure wash each has particulate emissions as follows:

(1.9 pound PM/MMCF) * (1 MMCF / 1020 MMBtu) = 0.0019 pound PM per MMBtu

Therefore, the natural gas fired boiler, water heater and hot pressure wash are each able to comply with the particulate emission limitation under 326 IAC 6-2-4 without the use of a control device.

(p) 326 IAC 7-1.1 Sulfur Dioxide Emission Limitations
The emission units at this source are not subject to 326 IAC 326 IAC 7-1.1, because the potential to emit $SO_2$ for each unit is less than 25 tons/year and 10 pounds/hour, respectively.

(t) No other state rules apply to the other insignificant activities included in this permit.

## Compliance Determination, Monitoring and Testing Requirements

(a) The compliance determination and monitoring requirements applicable to this source are as follows:

| Emission Unit / Control | Parameter | Frequency | Range | Excursions and Exceedances |
|---|---|---|---|---|
| Paint Booth E02 / Dry Filter CE2 | Overspray Observations | As Needed | Overspray Detected | Response Steps |
| Abrasive Blast E03 / Fabric filter CE1 | Visible Emissions | Once per day | Normal - Abnormal | Response Steps |

- The overspray observation monitoring requirements are necessary because the fabric filter CE2 for Paint Booth E02 must operate properly to ensure compliance with 326 IAC 6-3 (Process Operations).
- These monitoring requirements are necessary because the Fabric filter CE1 for Abrasive Blast E03 must operate properly to ensure compliance with 326 IAC 6-3 (Process Operations).

(b) There are no testing requirements included in this permit.

## Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on July 10, 2013.

The construction and operation of this source shall be subject to the conditions of the attached proposed New Source Construction and MSOP No. M027-33414-00061. The staff recommends to the Commissioner that this New Source Construction and MSOP be approved.

**IDEM Contact**

(a) Questions regarding this proposed permit can be directed to Heath Hartley at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 232-8217 or toll free at 1-800-451-6027 extension 2-8217.

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

(c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.in.gov/idem

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

**Company Name:** MacAllister Machinery Co., Inc.
**Source Address:** 1453 W. 150 S., Washington, IN 47501
**Permit Number:** M027-33414-00061
**Reviewer:** Heath Hartley

**Potential To Emit (PTE) Before Controls - tons per year (tpy)**

| Emission Source | PM | PM10 | PM2.5 | $SO_2$ | NOx | VOC | CO | GHG as CO2e | Total HAPs | Single HAP | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Paint Booth 1 E01 | 0.21 | 0.21 | 0.21 | 0 | 0 | 2.25 | 0 | 0 | 1.99 | 1.37 | Xylene |
| Paint Booth 2 E02 | 1.40 | 1.40 | 1.40 | 0 | 0 | 12.2 | 0 | 0 | 4.45 | 2.79 | Xylene |
| Abrasive Blast E03 | 75.4 | 52.8 | 52.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Abrasive Blast E04 | 8.80 | 6.16 | 6.16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Paved Roads | 1.40 | 0.28 | 0.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Parts Washers | 0 | 0 | 0 | 0 | 0 | 4.02 | 0 | 0 | 0 | 0 | |
| Nat Gas Combustion | 0.05 | 0.22 | 0.22 | 0.02 | 2.87 | 0.16 | 2.41 | 3461 | 0.05 | 0.05 | Hexane |
| Clean-Up Solvents | 0 | 0 | 0 | 0 | 0 | 0.24 | 0 | 0 | 0.04 | 0.03 | Toluene |
| **Totals** | **87.3** | **61.1** | **60.8** | **0.02** | **2.87** | **18.9** | **2.41** | **3,461** | **6.53** | **4.15** | Xylene |

**Potential To Emit (PTE) After Controls - tons per year (tpy)**

| Emission Source | PM | PM10 | PM2.5 | $SO_2$ | NOx | VOC | CO | GHG as CO2e | Total HAPs | Single HAP | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Paint Booth 1 E01 | 0.002 | 0.002 | 0.002 | 0 | 0 | 2.25 | 0 | 0 | 1.99 | 1.37 | Xylene |
| Paint Booth 2 E02 | 0.014 | 0.014 | 0.014 | 0 | 0 | 12.2 | 0 | 0 | 4.45 | 2.79 | Xylene |
| Abrasive Blast E03 | 7.5 | 5.3 | 5.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Abrasive Blast E04 | 0.9 | 0.6 | 0.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Paved Roads | 1.40 | 0.28 | 0.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Parts Washers | 0 | 0 | 0 | 0 | 0 | 4.02 | 0 | 0 | 0 | 0 | |
| Nat Gas Combustion | 0.05 | 0.22 | 0.22 | 0.02 | 2.87 | 0.16 | 2.41 | 3461 | 0.05 | 0.05 | Hexane |
| Clean-Up Solvents | 0 | 0 | 0 | 0 | 0 | 0.24 | 0 | 0 | 0.04 | 0.03 | Toluene |
| **Totals** | **9.89** | **6.41** | **6.20** | **0.02** | **2.87** | **18.9** | **2.41** | **3,461** | **6.53** | **4.15** | Xylene |

**Appendix A: Emissions Calculations**
**VOC and Particulate**
**From Surface Coating Operations**
**Paint Booth E01**
**and Clean-Up Solvent**

**Company Name:** MacAllister Machinery Co., Inc.
**Source Address:** 1453 W. 150 S., Washington, IN 47501
**Permit Number:** M027-33414-00061
**Reviewer:** Heath Hartley

**Paint Booth E01**

| Material | Density (Lb/Gal) | Weight % Volatile (H20 & Organics) | Weight % Water | Weight % Organics | Volume % Water | Volume % Non-Volatiles (solids) | Gal of Mat. (gal/unit) | Maximum (unit/hour) | Maximum (gal/hr) | Maximum (gal/day) | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *785 Haul Truck* | | | | | | | | | | | | | | | | | | |
| Cat Yellow | 9.26 | 86.0% | 0.0% | 86.0% | 0% | 33% | 28 | 0.0019 | 0.054 | 1.30 | 7.96 | 7.96 | 0.43 | 10.39 | 1.90 | 0.15 | 24.13 | 50% |
| Cat Black | 7.84 | 76.0% | 0.0% | 76.0% | 0% | 38% | 7 | 0.0019 | 0.014 | 0.33 | 5.96 | 5.96 | 0.08 | 1.94 | 0.35 | 0.06 | 15.68 | 50% |
| *Small Tractors* | | | | | | | | | | | | | | | | | | |
| Cat Yellow | 9.26 | 86.0% | 0.0% | 86.0% | 0% | 33% | 10 | 0.0059 | 0.059 | 1.42 | 7.96 | 7.96 | 0.47 | 11.35 | 2.07 | 0.17 | 24.13 | 50% |
| Cat Black | 7.84 | 76.0% | 0.0% | 76.0% | 0% | 38% | 4 | 0.0059 | 0.024 | 0.57 | 5.96 | 5.96 | 0.14 | 3.40 | 0.62 | 0.10 | 15.68 | 50% |
| | | | | | | **Total PTE Paint Booth E01** | | | **0.151** | **3.62** | | | **0.51** | **12.33** | **2.25** | **0.21** | | |

| | |
|---|---|
| Dry Filter Control Efficiency | 99.0% |
| Particulate Potential (ton/yr) (After Control) | 0.002 |

**Methodology**
Multiple products can be used in E01 at one time. 785 Haul Truck and Small Tractors are considered worst case products used in the booth at one time.
Maximum (unit/hr) is based on client projections, number of units in bay at a time and amount of time to coat a unit for maximum number of units coated per year.
Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)
Particulate Potential Tons per Year = (units/hour) * (gal/unit) * Density (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr) *(1 ton/2000 lbs)
Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)
Particulate Potential (ton/yr) (After Control) = Particulate Potential (ton/yr) * (1 - Control Efficiency)

**Clean-Up Solvent**

| | Density (lb/gal) | Usage (gal/yr) | Weight % Volatile (H20 & Organics) | Potential VOC (lb/yr) | Potential VOC (ton/yr) | Weight % Toluene | Weight % Hexane | PTE Toluene (ton/yr) | | PTE Hexane (ton/yr) |
|---|---|---|---|---|---|---|---|---|---|---|
| Final Klean 3901-S | 6.07 | 40 | 100% | 242.80 | 0.12 | 12% | 3% | 0.01 | | 0.004 |

**Methodology**
Potential VOC (lb/year) = Density (lb/gal) * Usage (gal/yr) * VOC content (%)
Potential VOC (ton/yr) = Potential VOC (lb/yr) * 1 ton/2000 lbs
PTE HAP (ton/yr) = Density (lb/gal) * Usage (gal/yr) * Weight % HAP * 1 ton / 2000 lb

**Appendix A: Emissions Calculations**
**VOC and Particulate**
**From Surface Coating Operations**
**Paint Booth E02**
**and Clean-Up Solvent**

**Company Name:** MacAllister Machinery Co., Inc.
**Source Address:** 1453 W. 150 S., Washington, IN 47501
**Permit Number:** M027-33414-00061
**Reviewer:** Heath Hartley

**Paint Booth E02**

| Material | Density (Lb/Gal) | Weight % Volatile (H20 & Organics) | Weight % Water | Weight % Organics | Volume % Water | Volume % Non-Volatiles (solids) | Gal of Mat. (gal/unit) | Maximum (unit/hour) | Maximum (gal/hr) | Maximum (gal/day) | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Engines* | | | | | | | | | | | | | | | | | | |
| Cat Yellow | 9.26 | 86.0% | 0.0% | 86.0% | 0% | 33% | 2 | 0.027 | 0.05 | 1.32 | 7.96 | 7.96 | 0.44 | 10.47 | 1.91 | 0.16 | 24.13 | 50% |
| Cat Black | 7.84 | 76.0% | 0.0% | 76.0% | 0% | 38% | 2 | 0.027 | 0.05 | 1.32 | 5.96 | 5.96 | 0.33 | 7.84 | 1.43 | 0.23 | 15.68 | 50% |
| *Torque Converters* | | | | | | | | | | | | | | | | | | |
| Cat Yellow | 9.26 | 86.0% | 0.0% | 86.0% | 0% | 33% | 0.25 | 0.083 | 0.02 | 0.50 | 7.96 | 7.96 | 0.17 | 3.97 | 0.72 | 0.06 | 24.13 | 50% |
| Cat Black | 7.84 | 76.0% | 0.0% | 76.0% | 0% | 38% | 0.25 | 0.083 | 0.02 | 0.50 | 5.96 | 5.96 | 0.12 | 2.97 | 0.54 | 0.09 | 15.68 | 50% |
| *Transmissions* | | | | | | | | | | | | | | | | | | |
| Cat Yellow | 9.26 | 86.0% | 0.0% | 86.0% | 0% | 33% | 0.5 | 0.060 | 0.03 | 0.72 | 7.96 | 7.96 | 0.24 | 5.77 | 1.05 | 0.09 | 24.13 | 50% |
| Cat Black | 7.84 | 76.0% | 0.0% | 76.0% | 0% | 38% | 0.5 | 0.060 | 0.03 | 0.72 | 5.96 | 5.96 | 0.18 | 4.32 | 0.79 | 0.12 | 15.68 | 50% |
| *Final Drives* | | | | | | | | | | | | | | | | | | |
| Cat Yellow | 9.26 | 86.0% | 0.0% | 86.0% | 0% | 33% | 0.75 | 0.111 | 0.08 | 1.99 | 7.96 | 7.96 | 0.66 | 15.87 | 2.90 | 0.24 | 24.13 | 50% |
| Cat Black | 7.84 | 76.0% | 0.0% | 76.0% | 0% | 38% | 0.75 | 0.111 | 0.08 | 1.99 | 5.96 | 5.96 | 0.49 | 11.88 | 2.17 | 0.34 | 15.68 | 50% |
| *Differentials* | | | | | | | | | | | | | | | | | | |
| Cat Yellow | 9.26 | 86.0% | 0.0% | 86.0% | 0% | 33% | 0.25 | 0.047 | 0.01 | 0.28 | 7.96 | 7.96 | 0.09 | 2.26 | 0.41 | 0.03 | 24.13 | 50% |
| Cat Black | 7.84 | 76.0% | 0.0% | 76.0% | 0% | 38% | 0.25 | 0.047 | 0.01 | 0.28 | 5.96 | 5.96 | 0.07 | 1.69 | 0.31 | 0.05 | 15.68 | 50% |
| | | | | | | | **Total PTE Paint Booth E02** | | **0.40** | **9.63** | | | **2.79** | **67.04** | **12.23** | **1.40** | | |

| | |
|---|---|
| Dry Filter Control Efficiency | 99.0% |
| Particulate Potential (ton/yr) (After Control) | 0.014 |

**Methodology**
Five products can be used in E02 at one time.
Maximum (unit/hr) is based on client projections, number of units in bay at a time and amount of time to coat a unit for maximum number of units coated per year
Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)
Particulate Potential Tons per Year = (units/hour) * (gal/unit) * Density (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr) *(1 ton/2000 lbs)
Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)
Particulate Potential (ton/yr) (After Control) = Particulate Potential (ton/yr) * (1 - Control Efficiency)

***Cleaning Solvents***

| **Potential to Emit VOC** | Density (lb/gal) | Usage (gal/yr) | Weight % Volatile (H20 & Organics) | Potential VOC (lb/year) | Potential VOC (tons/year) | Weight % Toluene | Weight % Hexane | PTE Toluene (ton/yr) | | PTE Hexane (ton/yr) |
|---|---|---|---|---|---|---|---|---|---|---|
| | 6.07 | 40.0 | 100% | 242.80 | 0.12 | 12% | 3% | 0.01 | | 0.004 |
| Final Klean 3901-S | | | | | | | | | | |

**Methodology**
Potential VOC (lb/year) = Density (lb/gal) * Usage (gal/yr) * VOC content (%)
Potential VOC (tons/year) = Potential VOC (lb/year) * 1 ton/2000 lbs
PTE HAP (ton/yr) = Density (lb/gal) * Usage (gal/yr) * Weight % HAP * 1 ton / 2000 lb

**Appendix A: Emission Calculations**
**HAP Emission Calculations**
**From Surface Coating Operations**

**Company Name:** MacAllister Machinery Co., Inc.
**Source Address:** 1453 W. 150 S., Washington, IN 47501
**Permit Number:** M027-33414-00061
**Reviewer:** Heath Hartley

| **Paint Booth E01** | | | | Weight % | | | | | Potential to Emit (PTE) (tons/year) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Material | Density (Lb/Gal) | Gallons of Material (gal/unit) | Maximum (unit/hour) | Xylene | Ethylbenzene | Toluene | Naphthanlene | Cumene | Xylene | Ethylbenzene | Toluene | Naphthanlene | Cumene | Total HAP |
| *785 Haul Truck* | | | | | | | | | | | | | | |
| Cat Yellow | 9.26 | 28 | 0.0019 | 30% | 10% | - | 1% | 1% | 0.66 | 0.22 | 0.00 | 0.02 | 0.02 | **0.93** |
| Cat Black | 7.84 | 7 | 0.0019 | 5% | 5% | 5% | - | - | 0.02 | 0.02 | 0.02 | 0.00 | 0.00 | **0.07** |
| *Small Tractors* | | | | | | | | | | | | | | |
| Cat Yellow | 9.26 | 28 | 0.0019 | 30% | 10% | - | 1% | 1% | 0.66 | 0.22 | 0.00 | 0.02 | 0.02 | **0.93** |
| Cat Black | 7.84 | 7 | 0.0019 | 5% | 5% | 5% | - | - | 0.02 | 0.02 | 0.02 | 0.00 | 0.00 | **0.07** |
| | | | | | | | | **Total** | **1.37** | **0.49** | **0.05** | **0.04** | **0.04** | **1.99** |

Note: Two products can be used in E01 at one time. 785 Haul Truck and Small Tractors are worst case products.

| **Paint Booth E02** | | | | Weight % | | | | | Potential to Emit (PTE) (tons/year) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Material | Density (Lb/Gal) | Gal of Mat. (gal/unit) | Maximum (unit/hour) | Xylene | Ethylbenzene | Toluene | Naphthanlene | Cumene | Xylene | Ethylbenzene | Toluene | Naphthanlene | Cumene | Total HAP |
| *Engines* | | | | | | | | | | | | | | |
| Cat Yellow | 9.26 | 2 | 0.027 | 30% | 10% | - | 1% | 1% | 0.67 | 0.22 | 0.00 | 0.02 | 0.02 | **0.93** |
| Cat Black | 7.84 | 2 | 0.027 | 5% | 5% | 5% | - | - | 0.09 | 0.09 | 0.09 | 0.00 | 0.00 | **0.28** |
| *Torque Converters* | | | | | | | | | | | | | | |
| Cat Yellow | 9.26 | 0.25 | 0.083 | 30% | 10% | - | 1% | 1% | 0.25 | 0.08 | 0.00 | 0.01 | 0.01 | **0.35** |
| Cat Black | 7.84 | 0.25 | 0.083 | 5% | 5% | 5% | - | - | 0.04 | 0.04 | 0.04 | 0.00 | 0.00 | **0.11** |
| *Transmissions* | | | | | | | | | | | | | | |
| Cat Yellow | 9.26 | 0.5 | 0.060 | 30% | 10% | - | 1% | 1% | 0.37 | 0.12 | 0.00 | 0.01 | 0.01 | **0.51** |
| Cat Black | 7.84 | 0.5 | 0.060 | 5% | 5% | 5% | - | - | 0.05 | 0.05 | 0.05 | 0.00 | 0.00 | **0.16** |
| *Final Drives* | | | | | | | | | | | | | | |
| Cat Yellow | 9.26 | 0.75 | 0.111 | 30% | 10% | - | 1% | 1% | 1.01 | 0.34 | 0.00 | 0.03 | 0.03 | **1.41** |
| Cat Black | 7.84 | 0.75 | 0.111 | 5% | 5% | 5% | - | - | 0.14 | 0.14 | 0.14 | 0.00 | 0.00 | **0.43** |
| *Differentials* | | | | | | | | | | | | | | |
| Cat Yellow | 9.26 | 0.25 | 0.047 | 30% | 10% | - | 1% | 1% | 0.14 | 0.05 | 0.00 | 0.00 | 0.00 | **0.20** |
| Cat Black | 7.84 | 0.25 | 0.047 | 5% | 5% | 5% | - | - | 0.02 | 0.02 | 0.02 | 0.00 | 0.00 | **0.06** |
| | | | | | | | | **Total** | **2.79** | **1.16** | **0.34** | **0.08** | **0.08** | **4.45** |

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

**Appendix A: Emission Calculations**
**Abrasive Blasting - Confined**

**Company Name:** MacAllister Machinery Co., Inc.
**Source Address:** 1453 W. 150 S., Washington, IN 47501
**Permit Number:** M027-33414-00061
**Reviewer:** Heath Hartley

***Table 1 - Emission Factors for Abrasives***

| | Emission Factor | |
|---|---|---|
| Abrasive | lb PM / lb abrasive | lb PM10 / lb PM |
| Sand | 0.041 | 0.70 |
| Grit | 0.010 | 0.70 |
| Steel Shot | 0.004 | 0.86 |
| Other | 0.010 | |

***Table 2 - Density of Abrasives (lb/ft3)***

| Abrasive | Density (lb/ft3) |
|---|---|
| Al oxides | 160 |
| Sand | 99 |
| Steel | 487 |

***Table 3 - Sand Flow Rate (FR1) Through Nozzle (lb/hr)***

Flow rate of Sand Through a Blasting Nozzle as a Function of Nozzle pressure and Internal Diameter

| | Nozzle Pressure (psig) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Internal diameter, in | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| 1/8 | 28 | 35 | 42 | 49 | 55 | 63 | 70 | 77 |
| 3/16 | 65 | 80 | 94 | 107 | 122 | 135 | 149 | 165 |
| 1/4 | 109 | 138 | 168 | 195 | 221 | 255 | 280 | 309 |
| 5/16 | 205 | 247 | 292 | 354 | 377 | 420 | 462 | 507 |
| 3/8 | 285 | 355 | 417 | 477 | 540 | 600 | 657 | 720 |
| 7/16 | 385 | 472 | 560 | 645 | 755 | 820 | 905 | 940 |
| 1/2 | 503 | 615 | 725 | 835 | 945 | 1050 | 1160 | 1265 |
| 5/8 | 820 | 990 | 1170 | 1336 | 1510 | 1680 | 1850 | 2030 |
| 3/4 | 1140 | 1420 | 1670 | 1915 | 2160 | 2400 | 2630 | 2880 |
| 1 | 2030 | 2460 | 2900 | 3340 | 3780 | 4200 | 4640 | 5060 |

**Calculations** *Adjusting Flow Rates for Different Abrasives and Nozzle Diameters*

| | E03 | E04 | |
|---|---|---|---|
| Flow Rate (FR) = Abrasive flow rate (lb/hr) with internal nozzle diam (ID) | | | |
| FR1 = Sand flow rate (lb/hr) with internal nozzle diameter (ID1) From Table 3 = | 420 | 49 | |
| D = Density of abrasive (lb/ft3) From Table 2 = | 99 | 99 | |
| D1 = Density of sand (lb/ft3) = | 99 | 99 | |
| ID = Actual nozzle internal diameter (in) = | 0.3125 | 0.125 | |
| ID1 = Nozzle internal diameter (in) from Table 3 = | 0.3125 | 0.125 | |
| **Flow Rate (FR) (lb/hr) =** | 420 | 49 | per nozzle |

**Uncontrolled Emissions (E, lb/hr)**

| | E03 | E04 | |
|---|---|---|---|
| EF = emission factor (lb PM/ lb abrasive) From Table 1 = | 0.041 | 0.041 | |
| FR = Flow Rate (lb/hr) = | 420 | 49 | |
| w = fraction of time of wet blasting = | 0 | 0 | % |
| N = number of nozzles = | 1 | 1 | |

| | E03 | E04 | |
|---|---|---|---|
| Uncontrolled Emissions (PM) = | 17.2 | 2.01 | lb/hr |
| **Uncontrolled Emissions (PM) =** | **75.4** | **8.80** | **ton/yr** |
| **Uncontrolled Emissions (PM10/PM2.5) =** | **52.8** | **6.16** | **ton/yr** |
| Fabric Filter Control Efficiency = | 90% | 90% | |
| **Controlled Emissions (PM) =** | **7.54** | **0.88** | **ton/yr** |
| **Controlled Emissions (PM10/PM2.5) =** | **5.28** | **0.62** | **ton/yr** |

METHODOLOGY
Emission Factors from STAPPA/ALAPCO "Air Quality Permits", Vol. I, Section 3 "Abrasive Blasting" (1991 edition)
Ton/yr = lb/hr X 8760 hr/yr X ton/2000 lbs
Flow Rate (FR) (lb/hr) = FR1 x (ID/ID1)2 x (D/D1)
E = EF x FR x (1-w/200) x N
w should be entered in as a whole number (if w is 50%, enter 50)

**Appendix A: Emission Calculations**
**Fugitive Emissions From Paved Roads**

**Company Name:** MacAllister Machinery Co., Inc.
**Source Address:** 1453 W. 150 S., Washington, IN 47501
**Permit Number:** M027-33414-00061
**Reviewer:** Heath Hartley

**1. Emission Factors: AP-42**

AP-42, Chapter 13.2.1 - Paved Roads (1/11), the PM/PM10 emission factors for paved roads can be estimated from the following equation:

$$E = (k \times (sL)^{0.91} \times (w)^{1.02}) \times (1 - p/(4 \times 365))$$

where:

E = emission factor (lb/vehicle mile traveled)
sL = road surface silt loading ($g/m^2$) = 10.0 ($g/m^2$)
w = mean vehicle weight (tons) = 1.18 tons
k = empirical constant = 0.011 for PM; 0.0022 for PM10; 0.00054 for PM2.5
p = number of days per year with 0.01 inches precipitation 120

| | Private Vehicles | |
|---|---|---|
| PM Emission Factor = | **0.097** | lbs/mile |
| PM10 Emission Factor = | **0.019** | lbs/mile |
| PM2.5 Emission Factor= | **0.005** | lbs/mile |

Length of Paved Roads in One Direction = **0.50** miles

**2. Potential to Emit (PTE) of PM/PM10 Before Control from Paved Roads:**

| Vehicle Type | *Vehicles per day | Average Vehicle Weight (tons) | Total Trip Number (trips/yr) | Vehicle Mile Traveled (VMT) (miles/yr) | PTE of PM (tons/yr) | PTE of PM10 (tons/yr) | PTE of PM2.5 (tons/yr) |
|---|---|---|---|---|---|---|---|
| Delivery Trucks | 7 | 3 | 2,555 | 2,555 | 0.12 | 0.02 | 0.01 |
| Private Vehicles | 72 | 1 | 26,280 | 26,280 | 1.27 | 0.25 | 0.06 |
| **Total** | **79** | | | **28835** | **1.40** | **0.28** | **0.07** |

* This information is provided by the source.

**Methodology**

Average Vehicle Weight (ton) = (Weight of Unloaded Vehicles + Weight of Loaded Vehicles) / 2
Mean vehicle weight (MVW) (tons) calculated as a weighted average as follows:

$$MVW\ (tons) = \frac{[(\text{Average Delivery Truck Weight (tons)} * (\text{Deliver Trucks per day}) + (\text{Average Private Vehicle Weight (tons)} * (\text{Private Vehilces per day})]}{[(\text{Deliver Trucks per day}) + (\text{Private Vehilces per day})]}$$

Total Trip Number (trips/yr) = Trucks per day x 365 (days/yr)
VMT(miles/yr) = (Length of Paved Roads in One Direction (miles/half-trip)) x (2 half-trips/trip) x (Total Trip Numbers (trips/yr))
PTE of PM/PM10/PM2.5 (tons/yr) = VMT (miles/yr) x PM/PM10/PM2.5 Emission Factor (lbs/mile) x 1 tons/ 2000 lbs

**Appendix A: Emission Calculations**
**Parts Washers**

**Company Name:** MacAllister Machinery Co., Inc.
**Source Address:** 1453 W. 150 S., Washington, IN 47501
**Permit Number:** M027-33414-00061
**Reviewer:** Heath Hartley

| Emission Unit | Maximum Annual Solvent Usage (gal/yr) | Solvent Density (lbs/gal) | Volatile Content (%) | VOC Potential (tpy) |
|---|---|---|---|---|
| 15 small parts washers | 1200 | 6.7 | 100% | 4.02 |

***Description***
The facility has 15 parts washers of 20 gallon capacity each that use Safety Kleen solvents. The parts washers filter and reuse the solvent.

***Methodology***
Maximum Annual Solvent Usage (gal/yr) = assumed that each parts washer's solvent is all lost when Safety Kleen does quarterly service.
VOC Potential (tpy) = Maximum Annual Solvent Usage (gal/yr) * Solvent Density (lbs/gal) * Volatile Content (%) / 2,000 lbs per ton
Only HAPs are negligible amounts of Tetrachloroethylene

**Appendix A: Emission Calculations**
**Natural Gas Combustion**

**Company Name:** MacAllister Machinery Co., Inc.
**Source Address:** 1453 W. 150 S., Washington, IN 47501
**Permit Number:** M027-33414-00061
**Reviewer:** Heath Hartley

Space & Water Heaters

| Emission Source | Capacity (MMBtu/hr) |
|---|---|
| Wash Bld Unit 1-2 | 2.170 |
| Service Bay | 2.220 |
| Track Shop | 0.635 |
| CRC Bld Unit 1-4 | 0.560 |
| Office Area Unit 1-3 | 0.120 |
| Wash Bld - Floor Heat Boiler | 0.020 |
| Two 20 gl water heater not process | 0.040 |
| Hotsy (Big Blue) Hot Pressure Wash | 0.780 |
| **Total (MMBtu/Hr)** | **6.55** |

mmscf: 1000
mmscf/yr: 57.33

| | Pollutant | | | | | | |
|---|---|---|---|---|---|---|---|
| | PM* | PM10* | direct PM2.5* | SO2 | NOx | VOC | CO |
| Emission Factor in lb/MMCF | 1.9 | 7.6 | 7.6 | 0.6 | 100 | 5.5 | 84 |
| Potential Emission in tons/yr | 0.05 | 0.22 | 0.22 | 0.02 | 2.87 | 0.16 | 2.41 |

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

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

| | HAPs - Organics | | | | | |
|---|---|---|---|---|---|---|
| | Benzene | Dichlorobenzene | Formaldehyde | Hexane | Toluene | Total Organic HAP |
| Emission Factor in lb/MMcf | 2.1E-03 | 1.2E-03 | 7.5E-02 | 1.8E+00 | 3.4E-03 | |
| Potential Emission in tons/yr | 6.0E-05 | 3.4E-05 | 2.2E-03 | 0.05 | 9.7E-05 | 5.4E-02 |

| | HAPs - Metals | | | | | |
|---|---|---|---|---|---|---|
| | Lead | Cadmium | Chromium | Manganese | Nickel | Total Metal HAP |
| Emission Factor in lb/MMcf | 5.0E-04 | 1.1E-03 | 1.4E-03 | 3.8E-04 | 2.1E-03 | |
| Potential Emission in tons/yr | 1.4E-05 | 3.2E-05 | 4.0E-05 | 1.1E-05 | 6.0E-05 | 1.6E-04 |

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

**Total HAPs** **0.05**

| | Greenhouse Gas | | |
|---|---|---|---|
| | CO2 | CH4 | N2O |
| Emission Factor in lb/MMcf | 120,000 | 2.3 | 2.2 |
| Potential Emission in tons/yr | 3,440 | 0.1 | 0.1 |
| Summed Potential Emissions in tons/yr | 3,440 | | |
| CO2e Total in tons/yr | 3,461 | | |

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

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**
*We Protect Hoosiers and Our Environment.*
100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

**Michael R. Pence**
*Governor*

**Thomas W. Easterly**
*Commissioner*

October 31, 2013

TO: Washington Carnegie Public Library

From: Matthew Stuckey, Branch Chief
Permits Branch
Office of Air Quality

Subject: **Important Information for Display Regarding a Final Determination**

**Applicant Name:** **MacAllister Machinery, Co.**
**Permit Number:** **027-33414-00061**

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

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

Enclosures
Final Library.dot 6/13/2013

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

TO: Jess Garman
MacAllister Machinery, Co.
1453 W 150 S
Washington, IN 47501

DATE: October 31, 2013

FROM: Matt Stuckey, Branch Chief
Permits Branch
Office of Air Quality

SUBJECT: Final Decision
New Source Construction & MSOP
027-33414-00061

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

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

A copy of the final decision and supporting materials has also been sent via standard mail to:
Mark Wagner – Director, Facilities & Real Estate
Sarah Welch – Cornerstone Environmental
OAQ Permits Branch Interested Parties List

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

# Mail Code 61-53

| IDEM Staff | GHOTOPP 10/31/2013<br>MacAllister Machinery Co Inc 027-33414-00061 Final | | |
|---|---|---|---|
| Name and address of Sender | ▶ | Indiana Department of Environmental Management<br>Office of Air Quality – Permits Branch<br>100 N. Senate<br>Indianapolis, IN 46204 | Type of Mail:<br>**CERTIFICATE OF MAILING ONLY** |

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| Line | Article Number | Name, Address, Street and Post Office Address | Postage | Handing Charges | Act. Value (If Registered) | Insured Value | Due Send if COD | R.R. Fee | S.D. Fee | S.H. Fee | Rest. Del. Fee<br>Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | Jess Garman MacAllister Machinery Co Inc 1453 W 150 S Washington IN 47501 (Source CAATS) via confirmed delivery | | | | | | | | | |
| 2 | | Mark Wagner Dir - Facilities & Real Estate MacAllister Machinery Co Inc 2855 N Franklin Rd Indianapolis IN 47501 *(RO CAATS)* | | | | | | | | | |
| 3 | | Mr. Amos M. Wittmer R. R. 2, Box 456 Montgomery IN 47558 *(Affected Party)* | | | | | | | | | |
| 4 | | Washington City Council and Mayors Office 101 N.E. 3rd St. Washington IN 47501 *(Local Official)* | | | | | | | | | |
| 5 | | Daviess County Commissioners 200 East Walnut Washington IN 47501 *(Local Official)* | | | | | | | | | |
| 6 | | Washington Carnegie Public Library 300 W Main St Washington IN 47501-2698 *(Library)* | | | | | | | | | |
| 7 | | Davies County Health Department 303 East Hefron Street Washington IN 47501 *(Health Department)* | | | | | | | | | |
| 8 | | Elnora Town Council P.O. Box 336 Elnora IN 47529 *(Local Official)* | | | | | | | | | |
| 9 | | Mr. Mark Wilson Evansville Courier & Press P.O. Box 268 Evansville IN 47702-0268 *(Affected Party)* | | | | | | | | | |
| 10 | | Mr. James Jones 209 S.E. 11th Street Washington IN 47501 *(Affected Party)* | | | | | | | | | |
| 11 | | John Blair 800 Adams Ave Evansville IN 47713 *(Affected Party)* | | | | | | | | | |
| 12 | | Sarah Welch Cornerstone Environmental 880 Lennox Court Zionsville IN 46077 *(Consultant)* | | | | | | | | | |
| 13 | | Ernest Colbert 1392 W 150 S Washington IN 47501 (Affected Party) | | | | | | | | | |
| 14 | | Kelby Holsapple 1218 W 150 S Washington IN 47501 *(Affected Party)* | | | | | | | | | |
| 15 | | Edward Walker 1012 W Washington Sullivan IN 47882 *(Affected Party)* | | | | | | | | | |

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# Mail Code 61-53

| IDEM Staff | GHOTOPP 10/31/2013<br>MacAllister Machinery Co Inc 027-33414-00061 Final | | |
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| Name and address of Sender | ▶ | Indiana Department of Environmental Management<br>Office of Air Quality – Permits Branch<br>100 N. Senate<br>Indianapolis, IN 46204 | Type of Mail:<br>**CERTIFICATE OF MAILING ONLY** |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | Boyd and Sons Farms 1312 E 200 N Washington IN 47501 (Affected Party) | | | | | | | | | |
| 2 | | Donald Wildman 1126 W 150 S Washington IN 47501 *(Affected Party)* | | | | | | | | | |
| 3 | | Andrew Bennington 1084 W 150 S Washington IN 47501 *(Affected Party)* | | | | | | | | | |
| 4 | | Rebecca Richardson 1050 W 150 S Washington IN 47501 *(Affected Party)* | | | | | | | | | |
| 5 | | Norman Bouchie RR 2 Box 214 Washington IN 47882 *(Affected Party)* | | | | | | | | | |
| 6 | | LinCo Holdings, LLC 2610 LinCo Drive Washington IN 47501 *(Affected Party)* | | | | | | | | | |
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