



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

Date: June 4, 2015

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

Source Name: MacAllister Machinery Company, Inc.

Permit Level: Significant Permit Revision

Permit Number: 027-35614-00061

Source Location: 1453 W. 150 S, Washington, Indiana

Type of Action Taken: Revisions to permit requirements

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 matter referenced above.

The final decision is available on the IDEM website at: <http://www.in.gov/apps/idem/caats/>
To view the document, select Search option 3, then enter permit 35614.

If you would like to request a paper copy of the permit document, please contact IDEM's central file room:

Indiana Government Center North, Room 1201
100 North Senate Avenue, MC 50-07
Indianapolis, IN 46204
Phone: 1-800-451-6027 (ext. 4-0965)
Fax (317) 232-8659

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.

(continues on next page)

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.



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Michael R. Pence
Governor

Thomas W. Easterly
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Scott Thombleson
MacAllister Machinery Company, Inc.
1453 W 150 S
Washington, IN 47501

June 4, 2015

Re: 027-35614-00061
Significant Revision to M027-33414-00061

Dear Mr. Thombleson:

MacAllister Machinery Company, Inc. was issued a Minor Source Operating Permit (MSOP) No. M027-33414-00061 on October 31, 2013 for a stationary equipment repair facility located at 1453 W 150 S, Washington, IN 47501. On March 20, 2015, the Office of Air Quality (OAQ) received an application from the source requesting the removal the VOC input limits found in Condition D.1.2 of the permit, and addition of the requirements of 326 IAC 8-10 (Automobile Refinishing) to the permit. Pursuant to the provisions of 326 IAC 2-6.1-6, these changes to the permit are required to be reviewed in accordance with the Significant Permit Revision (SPR) procedures of 326 IAC 2-6.1-6(i). Pursuant to the provisions of 326 IAC 2-6.1-6, a significant permit revision to this permit is hereby approved as described in the attached Technical Support Document (TSD).

Pursuant to 326 IAC 2-6.1-6, this permit shall be revised by incorporating the significant permit revision into the permit. All other conditions of the permit shall remain unchanged and in effect. Please find attached the entire MSOP as revised.

A copy of the permit is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>. For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Permit Guide on the Internet at: <http://www.in.gov/idem/5881.htm>; and the Citizens' Guide to IDEM on the Internet at: <http://www.in.gov/idem/6900.htm>.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Adam Wheat of my staff at 317-233-8397 or 1-800-451-6027, and ask for extension 3-8397.

Sincerely,

Nathan C. Bell, Section Chief
Permits Branch
Office of Air Quality

Attachments: Technical Support Document and revised permit
NB/AW

cc: File - Daviess County
Daviess County Health Department
U.S. EPA, Region V
Compliance and Enforcement Branch



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

**MacAllister Machinery Co., Inc.
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	
Originally Issued by: Nathan C. Bell, Section Chief Permits Branch Office of Air Quality	Issuance Date: October 31, 2013 Expiration Date: October 31, 2018


Significant Permit Revision No. 027-35614-00061	
Issued by:  Nathan C. Bell, Section Chief Permits Branch Office of Air Quality	Issuance Date: June 4, 2015 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 Minor Source, under PSD Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary

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

- (a) One (1) 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:

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

- (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 Compound (VOC) Limits [326 IAC 8-10-3] [326 IAC 8-10-4]

Pursuant to 326 IAC 8-10-4, for refinishing operations subject to the requirements of 326 IAC 8-10, the Permittee shall comply with the following:

- (a) The Permittee shall limit emissions of VOCs from refinishing operations subject to 326 IAC 8-10 by using coatings or surface preparation products with VOC limits based on the VOC content as applied.

The VOC content shall not exceed the following limits:

Coating Category	VOC Content Limit	
	grams/liter	pounds/gallon
Pretreatment wash primer	780	6.5
Precoat	660	5.5
Primer/primer surfacer	576	4.8
Primer sealer	552	4.6
Topcoat		
Single and two stage	600	5.0
Three and four stage	624	5.2
Multicolored topcoat	680	5.7
Specialty	840	7.0

For surface preparation products:

Type of Substrate	VOC Content Limit	
	grams/liter	pounds/gallon
Plastic	780	6.5
Other	168	1.4

- (b) Application of all specialty coatings except anti-glare/safety coatings shall not exceed five percent (5%) by volume of all coatings applied on a monthly basis.

D.1.3 Work Practice Standards [326 IAC 8-10-3] [326 IAC 8-10-5]

For refinishing operations subject to the requirements of 326 IAC 8-10, the Permittee shall comply with the work practice standards contained in 326 IAC 8-10-5 (included as Attachment A of this permit).

D.1.4 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.1.5 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.1.6 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 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).

D.1.7 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 Determination Requirements

D.1.8 Volatile Organic Compounds (VOC) Limits [326 IAC 8-10-3] [326 IAC 8-10-7] [326 IAC 8-1-4]

Pursuant to 326 IAC 8-10-7, compliance with the VOC content limits contained in Condition D.1.2 shall be determined pursuant to the applicable test methods and requirements of 326 IAC 8-1-4 and 40 CFR 60, Appendix A. The Permittee may use data provided with coatings or surface preparation products formulation information such as the container label, product data sheets, and MSDS sheet. IDEM, OAQ and the U.S. EPA may require VOC content determination and verification of any coating or surface preparation product using 40 CFR 60, Appendix A, Method 24. In the event of any inconsistency between 40 CFR 60, Appendix A, Method 24 and formulation data, 40 CFR 60, Appendix A, Method 24 shall govern.

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

D.1.9 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.1.10 Record Keeping Requirements

- (a) For refinishing operations subject to the requirements of 326 IAC 8-10, the Permittee shall comply with the record keeping requirements contained in 326 IAC 8-10-9 (included as Attachment A of this permit).
- (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.1.9, 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.1.11 Reporting Requirements

For refinishing operations subject to the requirements of 326 IAC 8-10, the Permittee shall comply with the reporting requirements contained in 326 IAC 8-10-6(c) and 326 IAC 8-10-9(e) (included as Attachment A of this permit).

These reports shall be submitted not later than thirty (30) days after the end of the quarter being reported. Condition C - General Reporting Requirements contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-1.1-1(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

**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., Inc.
Address:	1453 W. 150 S.
City:	Washington, Indiana 47501
Phone #:	(812) 254-1712
MSOP #:	M027-33414-00061

I hereby certify that MacAllister Machinery Co., Inc. is :

still in operation.

no longer in operation.

I hereby certify that MacAllister Machinery Co., Inc. 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., Inc.
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., Inc. 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)

Attachment A
Minor Source Operating Permit No.: 027-33414-00061

Rule 10. Automobile Refinishing

326 IAC 8-10-1 Applicability

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 1. (a) All sections of this rule apply to any person who:

(1) Sells, offers for sale, or manufactures for sale refinishing coating or surface preparation products in the following:

(A) Clark, Floyd, Lake, or Porter County.

(B) All other counties on or after June 1, 2009.

(2) Owns, leases, operates, or controls a facility, as defined in 326 IAC 1-2-27, that refinishes motor vehicles, motor vehicle parts, motor vehicle components, or mobile equipment, as defined in section 2(25) and 2(26) of this rule, in the following:

(A) Clark, Floyd, Lake, or Porter County.

(B) All other counties on or after June 1, 2009.

(b) The following activities are exempt from this rule:

(1) Application of aerosol coating products.

(2) Graphic design application.

(3) Touch-up coating application.

(c) This rule does not apply to individuals who:

(1) own;

(2) lease;

(3) operate; or

(4) control;

a facility, as defined in 326 IAC 1-2-27, that refinishes three (3) or fewer motor vehicles per calendar year.

(d) The exemption provided by 326 IAC 8-2-9(b)(4) shall not exempt any facility from the requirements of this rule. (*Air Pollution Control Board; 326 IAC 8-10-1; filed Oct 3, 1995, 3:00 p.m.: 19 IR 194; filed Jul 14, 1998, 5:04 p.m.: 21 IR 4518; filed Apr 23, 1999, 2:12 p.m.: 22 IR 2856; filed Mar 27, 2009, 9:58 a.m.: 20090422-IR-326060603FRA*)

326 IAC 8-10-2 Definitions

Authority: IC 13-14-8; IC 13-17-3-4

Affected: IC 13-12

Sec. 2. The following definitions shall apply throughout this rule:

(1) "Adhesion promoter" means a coating:

(A) used to promote adhesion of a topcoat on surfaces such as:

(i) trim moldings;

(ii) door locks; and

(iii) door sills; or

(B) that provides adhesion to plastic substrates, where sanding is impracticable.

The term excludes primers, primer sealers, primer surfacers, and topcoats.

(2) "Aerosol coating products" means a mixture of:

(A) resins;

(B) pigments;

(C) liquid solvents; and

(D) gaseous propellants;

packaged in a disposable can for hand-held application.

(3) "Anti-glare/safety coating" means a low gloss coating formulated to eliminate or reduce glare for safety purposes on interior surfaces of a vehicle, as specified under the United States Department of Transportation Motor Vehicle Safety Standards.

(4) "Application station" means the part of an automobile refinishing facility where coatings are applied.

(5) "Automobile refinishing" means refinishing operations for after-market motor vehicles, motor vehicle parts, motor vehicle components, or mobile equipment performed in:

(A) auto body and repair shops;

(B) production paint shops;

(C) new car dealer repair and paint shops;

(D) fleet operation repair and paint shops; and

(E) any other facility that coats vehicles under the Standard Industrial Classification (SIC) code 7532 (top, body, and upholstery repair shops and paint shops).

The term includes dealer repair of vehicles damaged in transit.

(6) "Basecoat" means a pigmented topcoat that is the first topcoat applied as part of a multistage topcoat system.

(7) "Basecoat/clearcoat system" means a topcoat system composed of a pigmented basecoat portion and a transparent clearcoat portion. The VOC content of a basecoat/clearcoat system shall be calculated according to the following formula:

$$\text{VOC}_{\text{Tbc/cc}} = \frac{\text{VOC}_{\text{bc}} + 2 \text{VOC}_{\text{cc}}}{3}$$

Where: $\text{VOC}_{\text{Tbc/cc}}$ = VOC content as applied of the basecoat (bc) and clearcoat (cc) systems.

VOC_{bc} = VOC content as applied of any given basecoat.

VOC_{cc} = VOC content as applied of any given clearcoat.

(8) "Catalyst" means a substance whose presence enhances the reaction between chemical compounds.

(9) "Clearcoat" means a topcoat that:

(A) contains no pigments or only transparent pigments; and

(B) is the final topcoat applied as a part of a multistage topcoat system.

(10) "Coating" means a protective, decorative, or functional material with VOC content greater than zero (0) used in automobile refinishing operations.

(11) "Color match" means the ability of a repair coating to blend in an existing coating so that color difference is not visible.

(12) "Container" means a vessel or tank used to store any of the following:

(A) Coatings.

(B) Surface preparation products.

(C) Solvents.

(D) Waste.

(13) "Disposed off site" means sending outside of the refinishing facility the used:

(A) coatings;

(B) surface preparation products;

(C) solvents;

(D) wastes.

(14) "Elastomeric materials" means topcoats and primers that are specifically formulated for application over flexible parts such as the following:

(A) Filler panels.

(B) Elastomeric bumpers.

(15) "Electrostatic application" means the application to a substrate of charged atomized paint droplets that are deposited by electrostatic attraction.

(16) "Equipment" means devices that are used to transfer or apply coating, surface preparation product, or solvent, such as, but not limited to, the following:

(A) Spray guns.

(B) Brushes.

(C) Nonrefillable aerosol cans.

(17) "Exempt compounds" means a nonphotochemically reactive hydrocarbon as defined in 326 IAC 1-2-48.

(18) "Gloss flatteners" means coatings that are formulated to provide low gloss to match original equipment manufacturer's (OEM) specifications.

(19) "Graphic design application" means the application of:

(A) logos;

(B) letters;

(C) numbers; and

(D) graphics;

to a painted surface, with or without the use of a template.

(20) "Ground support" means vehicles used in support of aircraft activities at airports.

(21) "Hardener" means an additive designed to promote a faster cure of coatings that cure by cross-linking of the resin components.

(22) "High-volume, low-pressure (HVLP) spray" means technology used to apply coating to a substrate by means of coating application equipment that operates between one-tenth (0.1) and ten (10) pounds per square inch gauge (psig) air pressure measured dynamically at the center of the air cap and at the air horns of the spray system.

- (23) "Material safety data sheet" or "MSDS" means the chemical, physical, technical, and safety information document supplied by the manufacturer of the coating, solvent, or other chemical product, usually through the distribution network or retailers.
- (24) "Midcoat" means a semitransparent topcoat that is the middle topcoat applied as part of a three (3) stage topcoat system.
- (25) "Mobile equipment" means any equipment that may be driven or drawn on a roadway, including, but not limited to, the following: (OAQ Example: see [letter to ISG-Burns Harbor](#) for example)
- (A) Truck bodies.
 - (B) Truck trailers.
 - (C) Cargo vaults.
 - (D) Utility bodies.
 - (E) Camper shells.
 - (F) Construction equipment, such as the following:
 - (i) Mobile cranes.
 - (ii) Bulldozers.
 - (iii) Concrete mixers.
 - (G) Farming equipment, such as the following:
 - (i) Tractors.
 - (ii) Plows.
 - (iii) Pesticide sprayers.
 - (H) Miscellaneous equipment, such as the following:
 - (i) Street cleaners.
 - (ii) Golf carts.
 - (iii) Ground support vehicles.
 - (iv) Tow motors.
 - (v) Fork lifts.
- (26) "Motor vehicles" means the following:
- (A) Automobiles.
 - (B) Buses.
 - (C) Trucks.
 - (D) Vans.
 - (E) Motor homes.
 - (F) Recreational vehicles.
 - (G) Motorcycles.
- (27) "Multicolored topcoat" means a topcoat that:
- (A) exhibits more than one (1) color;
 - (B) is packaged in a single container; and
 - (C) camouflages surface defects on areas of heavy use, such as cargo beds and other surfaces of trucks and other utility vehicles.
- (28) "Multistage topcoat system" means any basecoat/clearcoat topcoat system or any three (3) stage topcoat system:
- (A) manufactured as a system; and
 - (B) used as specified by the manufacturer.
- (29) "Precoat" means any coating that is applied to bare metal primarily to deactivate the metal surface to provide corrosion resistance against a subsequent water-based primer.
- (30) "Pretreatment wash primer" means the first coat applied to bare metal if solvent-based primers will be applied. This coating:
- (A) contains a minimum of five-tenths percent (0.5%) acid by weight;
 - (B) is necessary to provide surface etching; and
 - (C) is applied directly to bare metal surfaces to provide corrosion resistance.
- (31) "Primer" means any coating applied to a substrate prior to the application of a topcoat for the purpose of providing any of the following:
- (A) Corrosion resistance.
 - (B) Adhesion of subsequent coatings.
 - (C) Color uniformity.
- (32) "Primer sealer" means any coating applied to a substrate prior to the application of a topcoat to:
- (A) provide:
 - (i) corrosion resistance;
 - (ii) adhesion of the topcoat; and
 - (iii) color uniformity; and
 - (B) promote the ability of an undercoat to resist penetration by the topcoat.
- (33) "Primer surfacer" means any coating applied to a substrate prior to the application of a topcoat to:

- (A) provide:
- (i) corrosion resistance; and
 - (ii) adhesion of the topcoat; and
- (B) promote a uniform surface by filling in surface imperfections.
- (34) "Reducer" means the solvent added to dilute a coating, usually for the purpose of lowering the viscosity of a coating.
- (35) "Refinishing" means any coating of motor vehicles, motor vehicle parts, motor vehicle components, or mobile equipment, including partial body collision repairs, for the purpose of protection or beautification and that is subsequent to the original coating applied at an original equipment manufacturing (OEM) plant coating assembly line.
- (36) "Refinishing job" means for each motor vehicle or piece of mobile equipment any or all of the following:
- (A) Surface preparation.
 - (B) Primer application.
 - (C) Primer surfacer application.
 - (D) Primer sealer application.
 - (E) Topcoat application.
- (37) "Repair coating" means a coating that is used in the repair of:
- (A) a motor vehicle;
 - (B) a motor vehicle part;
 - (C) a motor vehicle component; or
 - (D) mobile equipment.
- (38) "Reused on site" means the reuse of a:
- (A) coating;
 - (B) surface preparation product; or
 - (C) solvent;
- in the refinishing facility.
- (39) "Solvent" means a liquid containing VOCs that is used for:
- (A) dissolving or dispersing constituents in a coating;
 - (B) adjusting the viscosity of a coating; or
 - (C) cleaning application stations, equipment, or containers.
- (40) "Specialty coatings" means coatings that are necessary due to unusual and uncommon job performance requirements, including, but not limited to, the following:
- (A) Weld-through primers.
 - (B) Adhesion promoters.
 - (C) Uniform finish blenders.
 - (D) Elastomeric materials.
 - (E) Gloss flatteners.
 - (F) Bright metal trim repair.
 - (G) Anti-glare/safety coatings.
 - (H) Multicolored topcoat.
- (41) "Spot repairs" means repairs to motor vehicles in which the damaged area to be repaired is limited to only a portion of any given panel so that an entire panel need not be repaired.
- (42) "Substrate" means the surface onto which coatings or surface preparation products are applied.
- (43) "Surface preparation products" means products with VOC content greater than zero (0) used to remove:
- (A) wax;
 - (B) tar;
 - (C) grease; and
 - (D) other undesirable contaminants;
- from the surface to be refinished.
- (44) "Three (3) or four (4) stage topcoat system" means a topcoat system composed of a pigmented basecoat portion, a semitransparent midcoat portion, and a transparent clearcoat portion. The VOC content of a three (3) stage coating system shall be calculated according to the following formula:

$$VOC_{T3\text{-stage}} = \frac{VOC_{bc} + VOC_{mc} + 2 VOC_{cc}}{4}$$

Where: = VOC content as applied of the three (3) stage coating system.

$VOC_{T3\text{-stage}}$

VOC_{bc} = VOC content as applied of any given basecoat.

VOC_{mc} = VOC content as applied of any given midcoat.

VOC_{cc} = VOC content as applied of any given clearcoat.

The VOC content of a four (4) stage system shall be calculated using the same formula specified for the three (3) stage coating system except that there would be an additional coating in the numerator, and the denominator would be five (5).

(45) "Topcoat" means the final film or series of films of coating applied to a substrate for the purpose of protection or appearance.

(46) "Touch-up coating" means a coating applied by brush or hand-held, nonrefillable aerosol cans to repair minor surface damage and imperfections.

(47) "Uniform finish blenders" means coatings that are utilized to ensure that the coatings applied during the refinishing of a vehicle imperceptibly blend in with the undamaged finish of repaired and undamaged portions of the:

- (A) motor vehicle;
- (B) motor vehicle parts;
- (C) motor vehicle components; or
- (D) mobile equipment.

(48) "VOC content" of coating or surface preparation products means the weight of VOC, less water, and less exempt compounds, per unit volume, of coating or surface preparation product.

(49) "VOC content as applied" of coatings or surface preparation products means the VOC content of the coating or surface preparation product, as applied to the substrate.

(50) "VOC content as supplied" means the VOC content of coating or surface preparation products, sold and delivered by the manufacturer to the user.

(51) "Volatile organic compound" or "VOC" has the meaning set forth in 326 IAC 1-2-90.

(52) "Weld-through primer" means primers that have the characteristics of withstanding high temperatures associated with welding without catching fire.

(Air Pollution Control Board; 326 IAC 8-10-2; filed Oct 3, 1995, 3:00 p.m.: 19 IR 194; errata filed Dec 11, 1995, 3:00 p.m.: 19 IR 674; filed Mar 27, 2009, 9:58 a.m.: 20090422-IR-326060603FRA)

326 IAC 8-10-3 Requirements

Authority: IC 13-14-8; IC 13-17-3-4

Affected: IC 13-12

Sec. 3. (a) Each manufacturer or distributor of coatings or surface preparation products manufactured or distributed for use in Indiana shall comply with the following:

- (1) The VOC content limits listed in section 4(a) of this rule.
- (2) The compliance procedures outlined in section 6(a) of this rule.

(b) Any person commercially providing refinishing coatings or surface preparation products for use in Indiana that were manufactured after January 11, 1999, shall comply with the following:

- (1) The VOC content limits listed in section 4(a) of this rule.
- (2) The compliance procedures outlined in section 6(b) of this rule.

(c) Any person applying any coating or surface preparation product in Indiana shall comply with the following:

- (1) The provisions of section 4 of this rule.
- (2) The work practice standards of section 5 of this rule.
- (3) The compliance procedures outlined in section 6(c) of this rule.
- (4) The test procedures in section 7 of this rule.
- (5) The record keeping and reporting provisions in section 9 of this rule.

(d) No person shall solicit or require any refinishing facility subject to this rule to use a refinishing coating or surface preparation product that does not comply with the VOC content limits listed in section 4(a) of this rule. *(Air Pollution Control Board; 326 IAC 8-10-3; filed Oct 3, 1995, 3:00 p.m.: 19 IR 197; filed Apr 23, 1999, 2:12 p.m.: 22 IR 2856; filed Mar 27, 2009, 9:58 a.m.: 20090422-IR-326060603FRA)*

326 IAC 8-10-4 Means to limit volatile organic compound emissions

Authority: IC 13-14-8; IC 13-17-3-4

Affected: IC 13-12

Sec. 4. (a) The owner or operator of a refinishing facility subject to this rule shall limit emissions of VOCs from refinishing operations by using coatings or surface preparation products with VOC limits based on the VOC content as applied. The VOC content shall not exceed the following limits:

Coating Category	VOC Limit	
	grams liter	lbs gallon
Pretreatment wash primer	780	6.5
Precoat	660	5.5

Primer/primer surfacer	576	4.8
Primer sealer	552	4.6
Topcoat		
Single and two stage	600	5.0
Three and four stage	624	5.2
Multicolored topcoat	680	5.7
Specialty	840	7.0
For surface preparation products:		
Type of Substrate	VOC Limit	
	grams	lbs
	liter	gallon
Plastic	780	6.5
Other	168	1.4

(b) Application of all specialty coatings except anti-glare/safety coatings shall not exceed five percent (5%) by volume of all coatings applied on a monthly basis. (*Air Pollution Control Board; 326 IAC 8-10-4; filed Oct 3, 1995, 3:00 p.m.: 19 IR 197; filed Mar 27, 2009, 9:58 a.m.: 20090422-IR-326060603FRA*)

326 IAC 8-10-5 Work practice standards

Authority: IC 13-14-8; IC 13-17-3-4
Affected: IC 13-12

Sec. 5. (a) The owner or operator of a refinishing facility subject to this rule shall ensure that spray guns are cleaned in an enclosed device that:

- (1) is closed during:
 - (A) spray gun equipment cleaning operations except when depositing and removing objects to be cleaned; and
 - (B) noncleaning operations with the exception of the maintenance and repair of the cleaning device itself; and
- (2) recirculates cleaning solvent during the cleaning operation so that the solvent is available for reuse on site or for disposal off site.

The cleaning device shall be operated and maintained according to the manufacturer's recommendations. The owner or operator of the refinishing facility subject to this rule shall have the cleaning device manufacturer's recommendations available for inspection upon request by the department or the U.S. EPA.

(b) The owner or operator of a refinishing facility subject to this rule shall use one (1) or a combination of the following equipment for coating application:

- (1) Electrostatic equipment.
- (2) High-volume, low-pressure (HVLP) spray equipment.
- (3) Any other coating application equipment that has been demonstrated, by the owner or operator, to the satisfaction of the department to be capable of achieving at least sixty-five percent (65%) transfer efficiency. The owner or operator must submit sufficient data for the department to be able to determine the accuracy of the transfer efficiency claims.

Coating application equipment shall be operated and maintained according to the manufacturer's recommendations. The owner or operator shall have the manufacturer's recommendations available for inspection upon request by the department or the U.S. EPA.

(c) The owner or operator of a refinishing facility subject to this rule shall implement housekeeping practices, which include the following:

- (1) All:
 - (A) paper;
 - (B) cloth;
 - (C) plastic; or
 - (D) other materials;

used for activities such as surface preparation and surface cleanup that have been contaminated with coatings or solvent shall be stored in closed containers until disposed of off site. The containers shall remain closed unless being filled or emptied.

(2) Except when actively or directly applying, store in closed containers, all fresh or used refinishing materials including, but not limited to, the following:

- (A) Solvents.
- (B) Coatings.
- (C) VOC-containing additives and materials.
- (D) VOC-containing waste materials.

(3) Storage containers and equipment shall be free from:

- (A) cracks;

- (B) holes; and
- (C) leaks.
- (4) Waste coatings and used automotive fluids shall be stored in closed containers.
- (5) Equipment cleanup shall be performed with methods that minimize the use of solvents. Reasonable efforts shall be made to reclaim the bulk of used solvents. No cleaning shall be performed by direct spraying of solvents into the atmosphere.
- (6) Effort shall be made to schedule operations of a similar nature to significantly reduce total VOC material consumption.
- (7) Coatings or surface preparation products shall be applied in a manner that minimizes overspray.
- (d) The owner or operator of a refinishing facility subject to this rule shall comply with the training requirements of this rule as follows:
 - (1) Develop a written training program. The training program may include training provided by the manufacturer or supplier and shall include written procedures and hands-on demonstration, as appropriate, on the following topics:
 - (A) Identification of appropriate coatings or surface preparation products.
 - (B) Preparation of coatings or surface preparation products according to coating manufacturer, distributor, or owner or operator's recommendations.
 - (C) Application of coatings or surface preparation products or organic solvents using techniques that minimize their usage.
 - (D) Operation and maintenance of spray gun cleaning equipment to minimize evaporation of organic solvents to the atmosphere.
 - (E) Work practice standards established in subsection (c).
 - (F) Procedures to:
 - (i) gather;
 - (ii) record;
 - (iii) monitor; and
 - (iv) report;
 - data in accordance with section 9 of this rule.
 - (2) Provide annual refresher training prior to May 1 of each year to any employee performing one (1) or more of the activities listed in subdivision (1). The training shall be appropriate to the job responsibilities of the employee.
 - (3) Any person may perform one (1) or more activities addressed in subdivision (1), for not more than one hundred eighty (180) days, notwithstanding the requirement of subdivision (2), provided each of the following:
 - (A) The untrained person works under the supervision of a person who meets the training requirements of subdivision (2).
 - (B) The owner or operator keeps the following records:
 - (i) The date the person was assigned to the activity.
 - (ii) The date training was completed.
 - (iii) The name of the person providing the supervision.
 - (4) The owner or operator of the refinishing operation subject to this rule shall keep records of the training program. The records shall consist of the following:
 - (A) The date training was completed.
 - (B) A list of persons, by name and activity and the topics in which they have been trained.
 - (C) A statement signed by the trainer certifying each trainee who satisfactorily has completed training in the topics and is proficient in the procedures specified in subdivision (1).

(Air Pollution Control Board; 326 IAC 8-10-5; filed Oct 3, 1995, 3:00 p.m.: 19 IR 198; errata filed Dec 11, 1995, 3:00 p.m.: 19 IR 674; filed Jul 14, 1998, 5:04 p.m.: 21 IR 4518; errata filed Dec 12, 2002, 3:35 p.m.: 26 IR 1568; filed Mar 27, 2009, 9:58 a.m.: 20090422-IR-326060603FRA)

326 IAC 8-10-6 Compliance procedures

Authority: IC 13-14-8; IC 13-17-3-4
Affected: IC 13-12

Sec. 6. (a) Each manufacturer of coatings or surface preparation products who supplies coatings or surface preparation products to a distributor, retailer, or owner or operator of a refinishing facility subject to this rule shall, for each coating or surface preparation product supplied, keep records of and provide the owner or operator of a refinishing facility with a written record or document containing the following coating or surface preparation product information:

- (1) Product description.
- (2) Date of manufacture, date code, or batch number.
- (3) Thinning instructions.

- (4) The VOC content in grams per liter and pounds per gallon, as packaged or as supplied:
(A) for single coat products, the VOC as applied after any thinning recommended by the manufacturer; or
(B) for multistage systems in which the VOC as applied is dependent upon the VOC content of a combination of products with varying VOC levels, provide:
(i) a list of the maximum allowable packaged VOC for the individual layers;
(ii) a comprehensive chart of color combinations and the as-applied VOC content; or
(iii) a simple to use formula or grid for the end user to calculate the as-applied VOC content of their multistage system.
- (5) A statement that the coating is, or is not, in compliance with the VOC limits in section 4(a) of this rule.
- (6) The:
(A) name;
(B) address;
(C) telephone number; and
(D) signature;
of the person purchasing the product.
- (b) Any person who is engaged in commercially providing coatings or surface preparation products in Indiana shall provide to the recipient and shall keep the following records of all coatings or surface preparation products supplied. The records shall include the following:
(1) The product description.
(2) The amount supplied.
(3) The date supplied, date code, or batch number.
(4) The VOC content in grams per liter and pounds per gallon, as packaged or as supplied:
(A) for single coat products, the VOC as applied after any thinning recommended by the manufacturer; or
(B) for multistage systems in which the VOC as applied is dependent upon the VOC content of a combination of products with varying VOC levels, provide:
(i) a list of the maximum allowable packaged VOC for the individual layers;
(ii) a comprehensive chart of color combinations and their as-applied VOC content; or
(iii) a simple to use formula or grid for the end user to calculate the as-applied VOC content of their multistage system.
- (5) The:
(A) name;
(B) address;
(C) telephone number; and
(D) signature;
of the person purchasing the product.
- (c) The owner or operator of a refinishing facility subject to this rule shall submit to the department a statement signed by a responsible official of the facility certifying that the facility has acquired and will continuously employ coatings or surface preparation products meeting the VOC limits of section 4(a) of this rule. (*Air Pollution Control Board; 326 IAC 8-10-6; filed Oct 3, 1995, 3:00 p.m.: 19 IR 199; filed Jul 14, 1998, 5:04 p.m.: 21 IR 4519; errata filed Dec 12, 2002, 3:35 p.m.: 26 IR 1568; filed Mar 27, 2009, 9:58 a.m.: 20090422-IR-326060603FRA*)

326 IAC 8-10-7 Test procedures

Authority: IC 13-14-8; IC 13-17-3-4

Affected: IC 13-12

Sec. 7. (a) Owners or operators of refinishing facilities subject to this rule shall be subject to the applicable test methods and requirements of 326 IAC 8-1-4 and 40 CFR 60, Appendix A*.

(b) Owners or operators may use data provided with coatings or surface preparation products formulation information such as the:

- (1) container label;
- (2) product data sheet; and
- (3) MSDS sheet;

in order to comply with sections 4 and 9(a) of this rule. The department and U.S. EPA may require VOC content determination and verification of any coating or surface preparation product using 40 CFR 60, Appendix A, Method 24*. In the event of any inconsistency between 40 CFR 60, Appendix A, Method 24 and formulation data, 40 CFR 60, Appendix A, Method 24 shall govern.

*These documents are incorporated by reference. Copies may be obtained from the Government Printing Office, 732 North Capitol Street NW, Washington, D.C. 20401 or are available for review and copying at the

Indiana Department of Environmental Management, Office of Air Quality, Indiana Government Center North, Tenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204. (*Air Pollution Control Board; 326 IAC 8-10-7; filed Oct 3, 1995, 3:00 p.m.: 19 IR 199; errata filed Dec 11, 1995, 3:00 p.m.: 19 IR 674; errata filed Dec 12, 2002, 3:35 p.m.: 26 IR 1568; filed Aug 26, 2004, 11:30 a.m.: 28 IR 58; filed Mar 27, 2009, 9:58 a.m.:20090422-IR-326060603FRA*)

326 IAC 8-10-8 Control system operation, maintenance, and monitoring

Authority: IC 13-14-8; IC 13-17-3-4

Affected: IC 13-12

Sec. 8. (*Repealed by Air Pollution Control Board; filed Mar 27, 2009, 9:58 a.m.: 20090422-IR-326060603FRA*)

326 IAC 8-10-9 Record keeping and reporting

Authority: IC 13-14-8; IC 13-17-3-4

Affected: IC 13-12

Sec. 9. (a) Owners or operators of refinishing facilities subject to the provisions of section 4(a) of this rule shall keep records of the following:

- (1) For each batch of coating mixed or refinishing job performed, the following information:
 - (A) Batch or job identification number or name.
 - (B) Date batch made or job performed.
 - (C) Coating category, consistent with the coating categories in section 4(a) of this rule.
 - (D) Coating manufacturer's name and identification number.
 - (E) Either the quantity used in making the mix or the mix ratio used.
 - (F) VOC content as supplied or packaged.
 - (G) Manufacturer's name and identification number of added components, such as the following:
 - (i) Catalysts.
 - (ii) Reducers.
 - (iii) Hardeners.
 - (H) Either the quantity of components added or the mix ratio used.
 - (2) For each surface preparation product used, the following information:
 - (A) Manufacturer's name and identification number.
 - (B) Substrate to which the product is applied.
 - (C) VOC content as supplied per calendar month for:
 - (i) number of containers used; and
 - (ii) volume of each container in suitable units, such as quarts, gallons, pints, other similar units, and the ratio of components added.
 - (3) Documents such as MSDS, or product or other data sheets for a period of three (3) years following use of the product. MSDS or product or other data sheets may be used by the U.S. EPA or the department to verify the VOC content, as supplied, provided by the coating manufacturer, distributor, or supplier, of the coatings or surface preparation products.
- (b) Owners or operators of refinishing facilities subject to this rule shall maintain the following records:
- (1) Records of training programs as required in section 5(d) of this rule.
 - (2) Initial compliance statements as required in section 6(c) of this rule.
 - (3) Records as required in this section.
- (c) Owners or operators of refinishing facilities subject to this rule shall:
- (1) maintain all records for a minimum of three (3) years; and
 - (2) make records available to the department and the U.S. EPA upon request.
- (d) Failure to maintain records required by subsections (a) and (b) shall constitute a violation of this rule for each day records are not maintained.
- (e) Owners or operators of refinishing facilities subject to this rule shall report within thirty (30) days to the department the following:
- (1) Any incidence in which noncompliant coating was used.
 - (2) The reasons for use of the noncompliant coating.
 - (3) Corrective actions taken.

(*Air Pollution Control Board; 326 IAC 8-10-9; filed Oct 3, 1995, 3:00 p.m.: 19 IR 200; errata filed Dec 11, 1995, 3:00 p.m.: 19 IR 674; filed Jul 14, 1998, 5:04 p.m.: 21 IR 4520; filed Mar 27, 2009, 9:58 a.m.: 20090422-IR-326060603FRA*)M

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

Technical Support Document (TSD) for a Significant Permit Revision to a 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
Operation Permit Issuance Date: October 31, 2013
Significant Permit Revision No.: 027-35614-00061
Permit Reviewer: Adam Wheat

On March 20, 2015, the Office of Air Quality (OAQ) received an application from MacAllister Machinery Co., Inc. related to a modification to an existing stationary equipment repair facility.

Existing Approvals

The source was issued MSOP No. M027-33414-00061 on October 31, 2013. There have been no subsequent approvals issued.

County Attainment Status

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

Pollutant	Designation
SO ₂	Non-attainment effective October 4, 2013, for Veale Twp. Better than national standards for the remainder of the county.
CO	Unclassifiable or attainment effective November 15, 1990.
O ₃	Unclassifiable or attainment effective July 20, 2012, for the 2008 8-hour ozone standard. ¹
PM _{2.5}	Unclassifiable or attainment effective April 5, 2005, for the annual PM _{2.5} standard.
PM _{2.5}	Unclassifiable or attainment effective December 13, 2009, for the 24-hour PM _{2.5} standard.
PM ₁₀	Unclassifiable effective November 15, 1990.
NO ₂	Cannot be classified or better than national standards.
Pb	Unclassifiable or attainment effective December 31, 2011.

¹Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.

- (a) **Ozone Standards**
 Volatile organic compounds (VOC) and Nitrogen Oxides (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to ozone. Daviess County (Washington Township) has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) **PM_{2.5}**
 Daviess County (Washington Township) has been classified as attainment for PM_{2.5}. Therefore, direct PM_{2.5}, SO₂, and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

- (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.

Status of the Existing Source

The table below summarizes the uncontrolled/unlimited potential to emit of the entire source, prior to the proposed revision. This PTE table is from Appendix A of MSOP No. M027-33414-00061, issued on October 31, 2013.

Process/ Emission Unit	Uncontrolled/Unlimited Potential To Emit of the Entire Source Prior to Revision (tons/year)								
	PM	PM10*	PM2.5**	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Paint Booth E01	0.21	0.21	0.21	-	-	2.25	-	1.99	1.37 (Xylene)
Paint Booth E02	1.40	1.40	1.40	-	-	12.2	-	4.45	2.79 (Xylene)
Abrasive Blast Unit E03	75.4	52.8	52.8	-	-	-	-	-	-
Abrasive Blast Unit E04	8.80	6.16	6.16	-	-	-	-	-	-
Paved Roads	1.40	0.28	0.07	-	-	-	-	-	-
Parts Washers	-	-	-	-	-	4.02	-	-	-
Natural Gas Combustion	0.05	0.22	0.22	0.02	2.87	0.16	2.41	0.05	0.05 (Hexane)
Clean-Up Solvents	-	-	-	-	-	0.24	-	0.04	0.03 (Toluene)
Total PTE of Entire Source	87.3	61.1	60.8	0.02	2.87	18.9	2.41	6.53	4.15 (Xylene)
PSD Major Source Thresholds	250	250	250	250	250	250	250	-	-
Title V Major Source Thresholds	-	100	100	100	100	100	100	25	10

* Under the Part 70 Permit program (40 CFR 70), PM10 and PM2.5, not particulate matter (PM), are each considered as a "regulated air pollutant".
 **PM_{2.5} listed is direct PM_{2.5}.

- (a) This existing source is not a major stationary source under PSD (326 IAC 2-2), because no PSD regulated pollutant is emitted at a rate of 250 tons per year or more, and it is not one of the twenty-eight (28) listed source categories as specified in 326 IAC 2-2-1(ff)(1).
- (b) This existing source is not a major source of HAPs, as defined in 40 CFR 63.41, because the unlimited potential to emit HAPs is less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA).
- (c) On June 23, 2014, in the case of *Utility Air Regulatory Group v. EPA*, cause no. 12-1146, (available at http://www.supremecourt.gov/opinions/13pdf/12-1146_4g18.pdf) the United States Supreme Court ruled that the U.S. EPA does not have the authority to treat greenhouse gases (GHGs) as an air pollutant for the purpose of determining operating permit applicability or PSD Major source status. On July 24, 2014, the U.S. EPA issued a memorandum to the Regional Administrators outlining next steps in permitting decisions in light of the Supreme Court's decision. U.S. EPA's guidance states that U.S. EPA will no longer require PSD or Title V permits for sources "previously classified as 'Major' based solely on greenhouse gas emissions."

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

Description of Proposed Revision

The Office of Air Quality (OAQ) has reviewed an application, submitted by MacAllisters Machinery Company, Inc. on March 20, 2015, relating to the removal the VOC input limits found in Condition D.1.2 of the permit, and replacement with the requirements of 326 IAC 8-10 (Automobile Refinishing). There are no new emission units as part of this revision.

In addition to the requested changes, the permit calculations have been updated to correct the VOC content of the paints being used in paint booths E01 and E02 to show that each booth is using 326 IAC 8-10 compliant coatings. The calculation sheets are attached as Appendix A.

Enforcement Issues

There are no pending enforcement actions related to this revision.

Emission Calculations

See Appendix A of this TSD for detailed emission calculations.

Permit Level Determination – MSOP Revision

Pursuant to 326 IAC 2-6.1-6(i)(1)(l), this MSOP is revised through a Significant Permit Revision because the proposed revision is not an Administrative Amendment or Minor Permit Revision and the proposed revision removes or reduces the compliance monitoring, testing, record keeping, reporting, or its frequency.

PTE of the Entire Source After Issuance of the MSOP Revision

The table below summarizes the uncontrolled/unlimited potential to emit of the entire source, with updated emissions shown as **bold** values and previous emissions shown as ~~strikethrough~~ values.

Process/ Emission Unit	Uncontrolled/Unlimited Potential To Emit of the Entire Source After the Proposed Revision (tons/year)								
	PM	PM10*	PM2.5**	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Paint Booth E01	0.21	0.21	0.21	-	-	2.25 1.40	-	1.99	1.37 (Xylene)
Paint Booth E02	1.40	1.40	1.40	-	-	42.2 7.98	-	4.45	2.79 (Xylene)
Abrasive Blast Unit E03	75.4	52.8	52.8	-	-	-	-	-	-
Abrasive Blast Unit E04	8.80	6.16	6.16	-	-	-	-	-	-
Paved Roads	1.40	0.28	0.07	-	-	-	-	-	-
Parts Washers	-	-	-	-	-	4.02	-	-	-
Natural Gas Combustion	0.05	0.22	0.22	0.02	2.87	0.16	2.41	0.05	0.05 (Hexane)
Clean-Up Solvents	-	-	-	-	-	0.24	-	0.04	0.03 (Toluene)
Total PTE of Entire Source	87.3	61.1	60.8	0.02	2.87	48.9 13.8	2.41	6.53	4.15 (Xylene)
PSD Major Source Thresholds	250	250	250	250	250	250	250	-	-
Title V Major Source Thresholds	-	100	100	100	100	100	100	25	10

* Under the Part 70 Permit program (40 CFR 70), PM10 and PM2.5, not particulate matter (PM), are each considered as a "regulated air pollutant".
 **PM_{2.5} listed is direct PM_{2.5}.

(a) MSOP Status

(1) Criteria Pollutants

This revision to an existing Title V minor stationary source will not change the minor status, because the uncontrolled/unlimited potential to emit criteria pollutants from the entire source will still be less than the Title V major source threshold levels. Therefore, the source will still be subject to the provisions of 326 IAC 2-6.1 (MSOP).

(2) HAPs

This revision will not change the minor status of the source, because the uncontrolled/unlimited potential to emit of any single HAP will still be less than ten (10) tons per year and the PTE of a combination of HAPs will still be 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.

(b) PSD Minor Source – PM

This modification to an existing PSD minor stationary source will not change the PSD minor status, because the uncontrolled/unlimited potential to emit PM from the entire source will continue to be less than the PSD major source threshold levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

Federal Rule Applicability Determination

New Source Performance Standards (NSPS)

(a) There are no New Source Performance Standards (40 CFR Part 60) and 326 IAC 12 included for this proposed revision.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

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

Compliance Assurance Monitoring (CAM)

- (c) 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

- (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))
 See PTE of the Entire Source After Issuance of the MSOP Revision Section above.
- (c) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
 See PTE of the Entire Source After Issuance of the MSOP Revision Section above.
- (d) 326 IAC 12 (New Source Performance Standards)
 See Federal Rule Applicability Section of this TSD.
- (e) 326 IAC 20 (Hazardous Air Pollutants)
 See Federal Rule Applicability Section of this TSD.

Surface Coating Operation

- (f) 326 IAC 8-10 (Automobile Refinishing)
 Pursuant to 326 IAC 8-10-1, the source is now subject to the requirements of 326 8-10 since it owns, leases, operates, or controls a facility, as defined in 326 IAC 1-2-27, that refinishes motor vehicles, motor vehicle parts, motor vehicle components, or mobile equipment, and is located in any county on or after June 1, 2009
- (1) Pursuant to 326 IAC 8-10-4, the volatile organic matter (VOC) content of all coating material used in automobile refinishing operations shall not exceed the following:

Coating Category	VOC Limit	
	(grams/liter)	(lbs/gallon)
Pretreatment Wash Primer	780	6.5
Precoat	660	5.5
Primer/Primer Surfacer	576	4.8
Primer Sealer	552	4.6
Topcoat		
<i>Single and Two Stage</i>	600	5.0
<i>Three and Four Stage</i>	624	5.2
Multicolor Topcoat	680	5.7
Specialty	840	7.0

For surface preparation products:

Type of Substrate	VOC Limit	
	(grams/liter)	(lbs/gallon)
Plastic	780	6.5
Other	168	1.4

- (2) Pursuant to 326 IAC 8-10-5, the owner or operator of a refinishing facility subject to this rule shall ensure that spray guns are cleaned in an enclosed device that:
- (1) is closed during:

- (A) spray gun equipment cleaning operations except when depositing and removing objects to be cleaned; and
 - (B) noncleaning operations with the exception of the maintenance and repair of the cleaning device itself; and
- (2) recirculates cleaning solvent during the cleaning operation so that the solvent is available for reuse on site or for disposal off site.

The cleaning device shall be operated and maintained according to the manufacturer's recommendations. The owner or operator of the refinishing facility subject to this rule shall have the cleaning device manufacturer's recommendations available for inspection upon request by the department or the U.S. EPA.

- (3) The owner or operator of a refinishing facility subject to this rule shall use one (1) or a combination of the following equipment for coating application:
- (1) Electrostatic equipment.
 - (2) High-volume, low-pressure (HVLP) spray equipment.
 - (3) Any other coating application equipment that has been demonstrated, by the owner or operator, to the satisfaction of the department to be capable of achieving at least sixty-five percent (65%) transfer efficiency. The owner or operator must submit sufficient data for the department to be able to determine the accuracy of the transfer efficiency claims.

Coating application equipment shall be operated and maintained according to the manufacturer's recommendations. The owner or operator shall have the manufacturer's recommendations available for inspection upon request by the department or the U.S. EPA.

- (4) The owner or operator of a refinishing facility subject to this rule shall implement housekeeping practices, which include the following:
- (A) All:
 - (i) paper;
 - (ii) cloth;
 - (iii) plastic; or
 - (iv) other materials;

used for activities such as surface preparation and surface cleanup that have been contaminated with coatings or solvent shall be stored in closed containers until disposed of offsite. The containers shall remain closed unless being filled or emptied.

- (B) Except when actively or directly applying, store in closed containers, all fresh or used refinishing materials including, but not limited to, the following:
 - (i) Solvents.
 - (ii) Coatings.
 - (iii) VOC-containing additives and materials.
 - (iv) VOC-containing waste materials.
- (C) Storage containers and equipment shall be free from:
 - (i) cracks;
 - (ii) holes; and
 - (iii) leaks.

- (D) Waste coatings and used automotive fluids shall be stored in closed containers.
 - (E) Equipment cleanup shall be performed with methods that minimize the use of solvents. Reasonable efforts shall be made to reclaim the bulk of used solvents. No cleaning shall be performed by direct spraying of solvents into the atmosphere.
 - (F) Effort shall be made to schedule operations of a similar nature to significantly reduce total VOC material consumption.
 - (G) Coatings or surface preparation products shall be applied in a manner that minimizes overspray.
- (5) The owner or operator of a refinishing facility subject to this rule shall comply with the training requirements of this rule as follows:
- (A) Develop a written training program. The training program may include training provided by the manufacturer or supplier and shall include written procedures and hands-on demonstration, as appropriate, on the following topics:
 - (i) Identification of appropriate coatings or surface preparation products.
 - (ii) Preparation of coatings or surface preparation products according to coating manufacturer, distributor, or owner or operator's recommendations.
 - (iii) Application of coatings or surface preparation products or organic solvents using techniques that minimize their usage.
 - (D) Operation and maintenance of spray gun cleaning equipment to minimize evaporation of organic solvents to the atmosphere.
 - (iv) Work practice standards established in subsection (4).
 - (v) Procedures to:
 - (i) gather;
 - (ii) record;
 - (iii) monitor; and
 - (iv) report;data in accordance with section 9 of this rule.
 - (B) Provide annual refresher training prior to May 1 of each year to any employee performing one (1) or more of the activities listed in subdivision (1). The training shall be appropriate to the job responsibilities of the employee.
 - (C) Any person may perform one (1) or more activities addressed in subdivision (1), for not more than one hundred eighty (180) days, notwithstanding the requirement of subdivision (2), provided each of the following:
 - (i) The untrained person works under the supervision of a person who meets the training requirements of subdivision (2).
 - (ii) The owner or operator keeps the following records:
 - (1) The date the person was assigned to the activity.
 - (2) The date training was completed.
 - (3) The name of the person providing the supervision.

- (D) The owner or operator of the refinishing operation subject to this rule shall keep records of the training program. The records shall consist of the following:
 - (i) The date training was completed.
 - (ii) A list of persons, by name and activity and the topics in which they have been trained.
 - (iii) A statement signed by the trainer certifying each trainee who satisfactorily has completed training in the topics and is proficient in the procedures specified in subdivision (1).

- (g) There are no other 326 IAC 8 rules that are applicable to the facility due to this significant permit revision.

Compliance Determination, Monitoring and Testing Requirements

The compliance determination and monitoring requirement applicable to this proposed revision is the owner or operator of the facility shall submit to the department a statement signed by a responsible official of the facility certifying that the facility has acquired and will continuously employ coatings or surface preparation products meeting the VOC limits of 326 IAC 8-10-4.

Proposed Changes

The following changes listed below are due to the proposed revision. Deleted language appears as ~~strikethrough~~ text and new language appears as **bold** text:

- (a) **Modification No. 1:**

The source requested to remove of Condition D.1.2 from the permit, which limited VOC emissions from each paint booth (E01 and E02) to less than fifteen (15) pounds per day, for greater operational flexibility and to ensure compliance with VOC emission limits. The removal of Condition D.1.2 makes the requirements of 326 IAC 8-10 (Automobile Refinishing) applicable to the source. The requirements of 326 IAC 8-10 (Automobile Refinishing) have been added to the permit.

- (b) **Modification No. 2:**

The permit was updated to include the full name of the source.

MacAllister Machinery Co., **Inc.**

~~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.1.2 Volatile Organic Compound (VOC) Limits [326 IAC 8-10-3] [326 IAC 8-10-4]

Pursuant to 326 IAC 8-10-4, for refinishing operations subject to the requirements of 326 IAC 8-10, the Permittee shall comply with the following:

- (a) **The Permittee shall limit emissions of VOCs from refinishing operations subject to 326 IAC 8-10 by using coatings or surface preparation products with VOC limits based on the VOC content as applied.**

The VOC content shall not exceed the following limits:

Coating Category	VOC Content Limit	
	grams/liter	pounds/gallon
Pretreatment wash primer	780	6.5
Precoat	660	5.5
Primer/primer surfacer	576	4.8
Primer sealer	552	4.6
Topcoat		
Single and two stage	600	5.0
Three and four stage	624	5.2
Multicolored topcoat	680	5.7
Specialty	840	7.0

For surface preparation products:

Type of Substrate	VOC Content Limit	
	grams/liter	pounds/gallon
Plastic	780	6.5
Other	168	1.4

- (b) **Application of all specialty coatings except anti-glare/safety coatings shall not exceed five percent (5%) by volume of all coatings applied on a monthly basis.**

D.1.3 Work Practice Standards [326 IAC 8-10-3] [326 IAC 8-10-5]

For refinishing operations subject to the requirements of 326 IAC 8-10, the Permittee shall comply with the work practice standards contained in 326 IAC 8-10-5 (included as Attachment A of this permit).

D.1.34 Particulate Emission Limitations for Sources of Indirect Heating [326 IAC 6-2]

D.1.45 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

D.1.56 Volatile Organic Compounds (VOC) [326 IAC 8-3-8]

D.1.67 Preventive Maintenance Plan [326 IAC 1-6-3]

Compliance Determination Requirements

D.1.8 Volatile Organic Compounds (VOC) Limits [326 IAC 8-10-3] [326 IAC 8-10-7] [326 IAC 8-1-4]

Pursuant to 326 IAC 8-10-7, compliance with the VOC content limits contained in Condition D.1.2 shall be determined pursuant to the applicable test methods and requirements of 326 IAC 8-1-4 and 40 CFR 60, Appendix A. The Permittee may use data provided with coatings or surface preparation products formulation information such as the container label, product data sheets, and MSDS sheet. IDEM, OAQ and the U.S. EPA may require VOC

content determination and verification of any coating or surface preparation product using 40 CFR 60, Appendix A, Method 24. In the event of any inconsistency between 40 CFR 60, Appendix A, Method 24 and formulation data, 40 CFR 60, Appendix A, Method 24 shall govern.

D.1.79 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.

D.1.810 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).~~

(a) For refinishing operations subject to the requirements of 326 IAC 8-10, the Permittee shall comply with the record keeping requirements contained in 326 IAC 8-10-9 (included as Attachment A of this permit).

(d) To document the compliance status with Condition D.1.79, 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).

D.1.911 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.~~

For refinishing operations subject to the requirements of 326 IAC 8-10, the Permittee shall comply with the reporting requirements contained in 326 IAC 8-10-6(c) and 326 IAC 8-10-9(e) (included as Attachment A of this permit).

These reports shall be submitted not later than thirty (30) days after the end of the quarter being reported. Condition C - General Reporting Requirements contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-1.1-1(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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 March 20, 2015.

The operation of this proposed revision shall be subject to the conditions of the attached proposed MSOP Significant Permit Revision No. 027-35614-00061. The staff recommends to the Commissioner that this MSOP Significant Permit Revision be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Adam Wheat 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) 233-8397 or toll free at 1-800-451-6027 extension 3-8397.
- (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 Permit Guide on the Internet at: <http://www.in.gov/idem/5881.htm>; and the Citizens' Guide to IDEM on the Internet at: <http://www.in.gov/idem/6900.htm>.

**Appendix A: Emission Calculations
Emissions Summary**

Company Name: MacAllister Machinery Co., Inc.
Source Address: 1453 W. 150 S., Washington, IN 47501
Operating Permit No.: M027-33414-00061
Significant Permit Revision No.: 027-35614-00061
Reviewer: Adam Wheat

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

Emission Source	PM	PM10	PM2.5	SO ₂	NOx	VOC	CO	GHG as CO ₂ e	Total HAPs	Single HAP	
Paint Booth 1 E01	0.64	0.64	0.64	0	0	1.40	0	0	1.99	1.37	Xylene
Paint Booth 2 E02	3.53	3.53	3.53	0	0	7.98	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	89.8	63.6	63.4	0.02	2.87	13.8	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 CO ₂ e	Total HAPs	Single HAP	
Paint Booth 1 E01	0.006	0.006	0.006	0	0	1.40	0	0	1.99	1.37	Xylene
Paint Booth 2 E02	0.035	0.035	0.035	0	0	7.98	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	9.92	6.43	6.22	0.02	2.87	13.8	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
Operating Permit No.: M027-33414-00061
Significant Permit Revision No.: 027-35614-00061
Reviewer: Adam Wheat

Paint Booth E01

Material	Density (Lb/Gal)	Weight % Volatile (H2O & 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	51.8%	0.0%	51.8%	0%	33%	28	0.0019	0.054	1.30	4.80	4.80	0.26	6.26	1.14	0.53	14.54	50%
Cat Black	7.84	54.6%	0.0%	54.6%	0%	38%	7	0.0019	0.014	0.33	4.28	4.28	0.06	1.40	0.25	0.11	11.26	50%
Small Tractors																		
Cat Yellow	9.26	51.8%	0.0%	51.8%	0%	33%	10	0.0059	0.059	1.42	4.80	4.80	0.28	6.83	1.25	0.58	14.54	50%
Cat Black	7.84	54.6%	0.0%	54.6%	0%	38%	4	0.0059	0.024	0.57	4.28	4.28	0.10	2.44	0.45	0.19	11.26	50%
Total PTE Paint Booth E01									0.151	3.62			0.32	7.65	1.40	0.64		

Dry Filter Control Efficiency	99.0%
Particulate Potential (ton/yr) (After Control)	0.006

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 (H2O & 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
Operating Permit No.: M027-33414-00061
Significant Permit Revision No.: 027-35614-00061
Reviewer: Adam Wheat

Paint Booth E02

Material	Density (Lb/Gal)	Weight % Volatile (H2O & 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	
<i>Engines</i>																			
Cat Yellow	9.26	51.8%	0.0%	51.8%	0%	33%	2	0.027	0.05	1.32	4.80	4.80	0.26	6.31	1.15	0.54	14.54	50%	
Cat Black	7.84	54.6%	0.0%	54.6%	0%	38%	2	0.027	0.05	1.32	4.28	4.28	0.23	5.63	1.03	0.43	11.26	50%	
<i>Torque Converters</i>																			
Cat Yellow	9.26	51.8%	0.0%	51.8%	0%	33%	0.25	0.083	0.02	0.50	4.80	4.80	0.10	2.39	0.44	0.20	14.54	50%	
Cat Black	7.84	54.6%	0.0%	54.6%	0%	38%	0.25	0.083	0.02	0.50	4.28	4.28	0.09	2.13	0.39	0.16	11.26	50%	
<i>Transmissions</i>																			
Cat Yellow	9.26	51.8%	0.0%	51.8%	0%	33%	0.5	0.060	0.03	0.72	4.80	4.80	0.14	3.48	0.63	0.30	14.54	50%	
Cat Black	7.84	54.6%	0.0%	54.6%	0%	38%	0.5	0.060	0.03	0.72	4.28	4.28	0.13	3.10	0.57	0.24	11.26	50%	
<i>Final Drives</i>																			
Cat Yellow	9.26	51.8%	0.0%	51.8%	0%	33%	0.75	0.111	0.08	1.99	4.80	4.80	0.40	9.56	1.75	0.81	14.54	50%	
Cat Black	7.84	54.6%	0.0%	54.6%	0%	38%	0.75	0.111	0.08	1.99	4.28	4.28	0.36	8.53	1.56	0.65	11.26	50%	
<i>Differentials</i>																			
Cat Yellow	9.26	51.8%	0.0%	51.8%	0%	33%	0.25	0.047	0.01	0.28	4.80	4.80	0.06	1.36	0.25	0.12	14.54	50%	
Cat Black	7.84	54.6%	0.0%	54.6%	0%	38%	0.25	0.047	0.01	0.28	4.28	4.28	0.05	1.22	0.22	0.09	11.26	50%	
Total PTE Paint Booth E02											0.40	9.63	1.82	43.70	7.98	3.53			

Dry Filter Control Efficiency
Particulate Potential (ton/yr) (After Control)

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

Material	Density (lb/gal)	Usage (gal/yr)	Weight % Volatile (H2O & Organics)	Potential VOC (lb/year)	Potential VOC (tons/year)	Weight % Toluene	Weight % Hexane	PTE Toluene (ton/yr)	PTE Hexane (ton/yr)
Final Klean 3901-S	6.07	40.0	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 (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
Operating Permit No.: M027-33414-00061
Significant Permit Revision No.: 027-35614-00061
Reviewer: Adam Wheat

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
<i>785 Haul Truck</i>														
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
<i>Small Tractors</i>														
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
<i>Engines</i>														
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
<i>Torque Converters</i>														
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
<i>Transmissions</i>														
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
<i>Final Drives</i>														
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
<i>Differentials</i>														
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
Operating Permit No.: M027-33414-00061
Significant Permit Revision No.: 027-35614-00061
Reviewer: Adam Wheat

Table 1 - Emission Factors for Abrasives

Abrasive	Emission Factor	
	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

Internal diameter, in	Nozzle Pressure (psig)							
	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*

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 =
 D = Density of abrasive (lb/ft3) From Table 2 =
 D1 = Density of sand (lb/ft3) =
 ID = Actual nozzle internal diameter (in) =
 ID1 = Nozzle internal diameter (in) from Table 3 =

Flow Rate (FR) (lb/hr) =

E03	E04
420	49
99	99
99	99
0.3125	0.125
0.3125	0.125
420	49

per nozzle

Uncontrolled Emissions (E, lb/hr)

EF = emission factor (lb PM/ lb abrasive) From Table 1 =
 FR = Flow Rate (lb/hr) =
 w = fraction of time of wet blasting =
 N = number of nozzles =

0.041	0.041
420	49
0	0
1	1

%

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

lb/hr
ton/yr
ton/yr
ton/yr
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
Operating Permit No.: M027-33414-00061
Significant Permit Revision No.: 027-35614-00061
Reviewer: Adam Wheat

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/m²) = 10.0 (g/m²)
 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:

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

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**

Page 7 of 8 TSD App A

Company Name: MacAllister Machinery Co., Inc.
Source Address: 1453 W. 150 S., Washington, IN 47501
Operating Permit No.: M027-33414-00061
Significant Permit Revision No.: 027-35614-00061
Reviewer: Adam Wheat

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
Operating Permit No.: M027-33414-00061
Significant Permit Revision No.: 027-35614-00061
Reviewer: Adam Wheat

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 gal water heater not process	0.040
Hotsy (Big Blue) Hot Pressure Wash	0.780
Total (MMBtu/Hr)	6.55

mmscf	mmscf/yr
1000	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					Total Organic HAP
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	
Potential Emission in tons/yr	6.0E-05	3.4E-05	2.2E-03	0.05	9.7E-05	5.4E-02

	HAPs - Metals				Total Metal HAP
	Lead	Cadmium	Chromium	Manganese	
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

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
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	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

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Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

June 4, 2015

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 Company, Inc.
Permit Number: 027-35614-00061

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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Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

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

TO: Scott Thombleson
MacAllister Machinery Company, Inc.
1453 W 150 S
Washington, IN 47501

DATE: June 4, 2015

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

SUBJECT: Final Decision
Significant Permit Revision
027-35614-00061

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:
Michael Alte – Director of Services
Michael Harding – 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.

Final Applicant Cover letter.dot 6/13/2013


Mail Code 61-53

IDEM Staff	GHOTOPP 6/4/2015 MacAllister Machinery Co Inc 027-35614-00061 Final		Type of Mail: CERTIFICATE OF MAILING ONLY	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		Scott Thombleson MacAllister Machinery Co Inc 1453 W 150 S Washington IN 47501 (Source CAATS) via certified mail										
2		Michael Alte Director of Service Operations MacAllister Machinery Co Inc PO Box 1941 Indianapolis IN 46206 (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		Ernest Colbert 1392 W 150 S Washington IN 47501 (Affected Party)										
13		Kelby Holsapple 1218 W 150 S Washington IN 47501 (Affected Party)										
14		Edward Walker 1012 W Washington Sullivan IN 47882 (Affected Party)										
15		Boyd and Sons Farms 1312 E 200 N Washington IN 47501 (Affected Party)										

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1		Donald Wildman 1126 W 150 S Washington IN 47501 (Affected Party)										
2		Andrew Bennington 1084 W 150 S Washington IN 47501 (Affected Party)										
3		Rebecca Richardson 1050 W 150 S Washington IN 47501 (Affected Party)										
4		Norman Bouchie RR 2 Box 214 Washington IN 47882 (Affected Party)										
5		LinCo Holdings, LLC 2610 LinCo Drive Washington IN 47501 (Affected Party)										
6		Michael Harding Cornerstone Environmental 880 Lennox Court Zionsville IN 46077 (Consultant)										
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