



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: November 15, 2010

RE: Wise Technical Marketing / 043 - 29501 - 00063

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

Notice of Decision: Approval - Registration

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 4-21.5-3-4(d) this order is effective when it is served. When served by U.S. mail, the order is effective three (3) calendar days from the mailing of this notice pursuant to IC 4-21.5-3-2(e).

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures
FN-REGIS.dot 1/2/08



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REGISTRATION OFFICE OF AIR QUALITY

**Wise Technical Marketing
800 Industrial Blvd.
New Albany, Indiana 47150**

Pursuant to 326 IAC 2-5.1 (Construction of New Sources: Registrations) and 326 IAC 2-5.5 (Registrations), (herein known as the Registrant) is hereby authorized to construct and operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this registration.

Registration No. 043-29501-00063	
Issued by:  Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: November 15, 2010

SECTION A

SOURCE SUMMARY

This registration 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 Registrant 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 Registrant to obtain additional permits pursuant to 326 IAC 2.

A.1 General Information

The Registrant owns and operates a stationary plant to manufacture dyes and surface coating products and lubricants.

Source Address:	800 Industrial Blvd, New Albany, Indiana 47150
General Source Phone Number:	502-774-9473
SIC Code:	2851
County Location:	Floyd County
Source Location Status:	Nonattainment for PM 2.5 standard Attainment for all other criteria pollutants
Source Status:	Registration 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) water-base dye/pigment dispersion manufacturing process, identified as Dye1, all approved for construction in 2010, with a maximum throughput capacity of 3,500 tons per year, using dry filter baghouses as control, and consisting of the following:
- (1) Five (5) Premix Tanks, identified as Premix Tank 1 through Premix Tank 5, with each tank having a capacity of 1,500 gallons, all controlled by baghouse 22, baghouse 23-24, and baghouse 27-28, exhausting outdoors;
 - (2) Four (4) Sandmills, identified as Sandmill 1 through Sandmill 4, all sealed units, with no add-on controls;
 - (3) Two (2) Horizontal Mills, identified as Horizontal Mill 1 and Horizontal Mill 2, both sealed units, with no add-on controls. Note: These two units are both also used for the lubricant manufacturing process described in (b) below;
 - (4) Five (5) Let-down Tanks, identified as Let-Down Tank 1 through Tank 5, with each tank having a capacity of 2,500 gallons, controlled by Baghouse 29-30, exhausting outdoors;
 - (5) One (1) Filling operation, with a maximum throughput capacity of 800 gallons per hour, with no add-on controls, exhausting to atmosphere; and
- (b) One (1) solvent-base lubricant/pigment dispersion manufacturing process, identified as Lub-1, approved for construction in 2010, with a maximum throughput capacity of 1,500 tons per year, consisting of the following:
- (1) Three (3) Sealed mixer units, identified as MST-1682, MST-1226, and MST-8990, each with a maximum capacity of 300 gallons, all sealed units;
 - (2) Four (4) Covered Mixer units, identified as MX-2109, MX-1226, MX-1867, and MX-2044, each with a maximum capacity of 500 gallons, all covered units;

- (3) Five (5) Sealed Media Mills, all sealed units, further identified as follows:
 - (A) PBM-1093 and PBM-1668, each with a maximum capacity of 500 gallons;
 - (B) PBM-1475, PBM-1765, and PBM-3529, each with a maximum capacity of 300 gallons.
- (4) One (1) Roll Mill, identified as RM-1220, with a maximum capacity of 100 gallons;
- (5) Six (6) Portable Tanks, all covered units, further identified as follows:
 - (A) Portable Tank 1 and Portable Tank 2, each with a maximum capacity of 300 gallons;
 - (B) Portable Tank 3 and Portable Tank 5, each with a maximum capacity of 500 gallons; and
 - (C) Portable Tank 4 and Portable Tank 6, each with a maximum capacity of 800 gallons.
- (6) Two (2) Covered Air Driven Mixers, identified as TKX-1701 and TKX-7693, each covered, each with a maximum capacity of 100 gallons;
- (7) Two (2) Finex Screeners, both sealed, identified as Finex Screener 1 and Finex Screener 2;
- (8) One (1) Magnetic Filter, sealed;
- (9) Two (2) Centrifuges, identified as Centrifuge 1 and Centrifuge 2;
- (10) One (1) Filling operation, with a maximum throughput capacity of 800 gallons per hour, with no add-on controls, exhausting to atmosphere; and
- (11) Two (2) Horizontal Mills, identified as Horizontal Mill 1 and Horizontal Mill 2, both sealed units, with no add-on controls. Note: These two units are both also used for the dye manufacturing process described in (a) above, and are the same emission units as described in (a)(3) above.

SECTION B

GENERAL CONDITIONS

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

Terms in this registration 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 Effective Date of Registration [IC 13-15-5-3]

Pursuant to IC 13-15-5-3, this registration 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.

B.3 Registration Revocation [326 IAC 2-1.1-9]

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

- (a) Violation of any conditions of this registration.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this registration.
- (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 registration shall not require revocation of this registration.
- (d) For any cause which establishes in the judgment of IDEM the fact that continuance of this registration is not consistent with purposes of this article.

B.4 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to Registration No. 043-29501-00063 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 registration.

B.5 Annual Notification [326 IAC 2-5.1-2(f)(3)] [326 IAC 2-5.5-4(a)(3)]

Pursuant to 326 IAC 2-5.1-2(f)(3) and 326 IAC 2-5.5-4(a)(3):

- (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 registration.
- (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, IN 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.6 Source Modification Requirement [326 IAC 2-5.5-6(a)]

Pursuant to 326 IAC 2-5.5-6(a), an application or notification shall be submitted in accordance with 326 IAC 2 to the Office of Air Quality (OAQ) if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source.

B.7 Registrations [326 IAC 2-5.1-2(i)]

Pursuant to 326 IAC 2-5.1-2(i), this registration does not limit the source's potential to emit.

B.8 Preventive Maintenance Plan [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this registration, the Registrant shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this registration 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 Registrant's control, the PMPs cannot be prepared and maintained within the above time frame, the Registrant may extend the date an additional ninety (90) days provided the Registrant 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 Registrant 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 Registrant 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 Registrant is required by 40 CFR Part 60 or 40 CFR Part 63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such OMM Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-5.1-2(g)] [326 IAC 2-5.5-4(b)]

C.1 Opacity [326 IAC 5-1]

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

- (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.2 Fugitive Dust Emissions [326 IAC 6-4]

The Registrant 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).

SECTION D.1

OPERATION CONDITIONS

Facility Description [326 IAC 2-5.1-2(f)(2)] [326 IAC 2-5.5-4(a)(2)]:

- (a) One (1) water-base dye/pigment dispersion manufacturing process, identified as Dye1, all approved for construction in 2010, with a maximum throughput capacity of 3,500 tons per year, using dry filter baghouses as control, and consisting of the following:
 - (1) Five (5) Premix Tanks, identified as Premix Tank 1 through Premix Tank 5, with each tank having a capacity of 1,500 gallons, all controlled by baghouse 22, baghouse 23-24, and baghouse 27-28, exhausting outdoors;
 - (2) Four (4) Sandmills, identified as Sandmill 1 through Sandmill 4, all sealed units, with no add-on controls;
 - (3) Two (2) Horizontal Mills, identified as Horizontal Mill 1 and Horizontal Mill 2, both sealed units, with no add-on controls. Note: These two units are both also used for the lubricant manufacturing process described in (b) below;
 - (4) Five (5) Let-down Tanks, identified as Let-Down Tank 1 through Tank 5, with each tank having a capacity of 2,500 gallons, controlled by Baghouse 29-30, exhausting outdoors;
 - (5) One (1) Filling operation, with a maximum throughput capacity of 800 gallons per hour, with no add-on controls, exhausting to atmosphere; and
- (b) One (1) solvent-base lubricant/pigment dispersion manufacturing process, identified as Lub-1, approved for construction in 2010, with a maximum throughput capacity of 1,500 tons per year, consisting of the following:
 - (1) Three (3) Sealed mixer units, identified as MST-1682, MST-1226, and MST-8990, each with a maximum capacity of 300 gallons, all sealed units;
 - (2) Four (4) Covered Mixer units, identified as MX-2109, MX-1226, MX-1867, and MX-2044, each with a maximum capacity of 500 gallons, all covered units;
 - (3) Five (5) Sealed Media Mills, all sealed units, further identified as follows:
 - (A) PBM-1093 and PBM-1668, each with a maximum capacity of 500 gallons;
 - (B) PBM-1475, PBM-1765, and PBM-3529, each with a maximum capacity of 300 gallons.
 - (4) One (1) Roll Mill, identified as RM-1220, with a maximum capacity of 100 gallons;
 - (5) Six (6) Portable Tanks, all covered units, further identified as follows:
 - (A) Portable Tank 1 and Portable Tank 2, each with a maximum capacity of 300 gallons;
 - (B) Portable Tank 3 and Portable Tank 5, each with a maximum capacity of 500 gallons; and
 - (C) Portable Tank 4 and Portable Tank 6, each with a maximum capacity of 800

gallons.

- (6) Two (2) Covered Air Driven Mixers, identified as TKX-1701 and TKX-7693, each covered, each with a maximum capacity of 100 gallons;
- (7) Two (2) Finex Screeners, both sealed, identified as Finex Screener 1 and Finex Screener 2;
- (8) One (1) Magnetic Filter, sealed;
- (9) Two (2) Centrifuges, identified as Centrifuge 1 and Centrifuge 2;
- (10) One (1) Filling operation, with a maximum throughput capacity of 800 gallons per hour, with no add-on controls, exhausting to atmosphere; and
- (11) Two (2) Horizontal Mills, identified as Horizontal Mill 1 and Horizontal Mill 2, both sealed units, with no add-on controls. Note: These two units are both also used for the dye manufacturing process described in (a) above, and are the same emission units as described in (a)(3) above.

(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 2-5.1-2(f)(1)] [326 IAC 2-5.5-4(a)(1)]

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

Pursuant to 326 IAC (Particulate Emission Limitations for Manufacturing Processes), the following shall apply:

- (1) The allowable particulate emission rate from the dye manufacturing process, Dye 1, shall not exceed 2.22 pounds per hour when operating at a process rate of 0.40 tons per hour; and
- (2) The allowable particulate emission rate from the lubricant manufacturing process, Lub-1, shall not exceed 1.25 pounds per hour when operating at a process rate of 0.17 tons per hour.

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

The interpolation of the data for a process rate of up to 30 tons per hour shall be accomplished by using the following formula:

$$E = 4.10 P^{0.67}$$

where E = rate of emissions in pounds per hour; and
P = process rate in tons per hour

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

A Preventive Maintenance Plan is required for this facility and its control device. Section B - Preventive Maintenance Plan contains the Registrant's obligation with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements

D.1.3 Particulate Control

In order to comply with Condition D.1.1, at least one of the baghouses 22, 29-30, 23-24, and 27-28 shall be in operation at all times that the dye manufacturing process is introducing dry materials into the process and shall operate within manufacturer's specifications at all times.

Compliance Monitoring Requirements

D.1.4 Visible Emissions Notations

- (a) Visible emission notations of the dye manufacturing process stack exhaust shall be performed once per day during normal daylight operations when the dye manufacturing process is operating. 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 in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C- Response to Excursions or Exceedances shall be considered a deviation from this permit.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.1.5 Record Keeping Requirements

- (a) To document the compliance status with Condition D.1.4, the Permittee shall maintain records of visible emission notations of the dye manufacturing line stack exhausts once per day (when the dye manufacturing process is running). The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).

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

REGISTRATION
ANNUAL NOTIFICATION

This form should be used to comply with the notification requirements under 326 IAC 2-5.1-2(f)(3) and 326 IAC 2-5.5-4(a)(3).

Company Name:	Wise Technical Marketing
Address:	800 Industrial Blvd.
City:	New Albany, Indiana 47150
Phone Number:	502-774-9473
Registration No.:	043-29501-00063

I hereby certify that Wise Technical Marketing is :

still in operation.

I hereby certify that Wise Technical Marketing is :

no longer in operation.

in compliance with the requirements of Registration No. 043-29501-00063.

not in compliance with the requirements of Registration No. 043-29501-00063.

Authorized Individual (typed):
Title:
Signature:
Phone Number:
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:

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for a Registration

Source Description and Location

Source Name:	Wise Technical Marketing
Source Location:	800 Industrial Boulevard, New Albany, Indiana 47150
County:	Floyd
SIC Code:	2851
Registration No.:	043-29501-00063
Permit Reviewer:	Jack Harmon

On July 26, 2010, the Office of Air Quality (OAQ) received an application from Wise Technical Marketing related to the construction and operation of a new stationary plant to manufacture dyes and surface coating products and lubricants. Additional information was received on August 26, 2010, October 4, 2010, and October 15, 2010.

Existing Approvals

There have been no previous approvals issued to this source.

County Attainment Status

The source is located in Floyd County.

Pollutant	Designation
SO ₂	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O ₃	Attainment effective July 19, 2007, for the 8-hour ozone standard. ¹
PM ₁₀	Unclassifiable effective November 15, 1990.
NO ₂	Cannot be classified or better than national standards.
Pb	Not designated.
¹ Attainment effective October 23, 2001, for the 1-hour ozone standard for the Louisville area, including Floyd County, and is a maintenance area for the 1-hour ozone National Ambient Air Quality Standard (NAAQS) for purposes of 40 CFR Part 51, Subpart X*. The 1-hour standard was revoked effective June 15, 2005. Basic nonattainment designation effective federally April 5, 2005, for PM _{2.5} .	

- (a) **Ozone Standards**
Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Floyd County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) **PM_{2.5}**
U.S. EPA, in the Federal Register Notice 70 FR 943 dated January 5, 2005, has designated Floyd County as nonattainment for PM_{2.5}. On March 7, 2005 the Indiana Attorney General's Office, on behalf of IDEM, filed a lawsuit with the Court of Appeals for the District of Columbia Circuit challenging U.S. EPA's designation of nonattainment areas without sufficient data. However, in order to ensure that sources are not potentially liable for a violation of the Clean Air

Act, the OAQ is following the U.S. EPA's New Source Review Rule for PM_{2.5} promulgated on May 8, 2008. These rules became effective on July 15, 2008. Therefore, direct PM_{2.5} and SO₂ emissions were reviewed pursuant to the requirements of Nonattainment New Source Review, 326 IAC 2-1.1-5. See the State Rule Applicability – Entire Source section.

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

Fugitive Emissions

This source processes chemicals in order to produce dyes that are used in industry to treat and coat mulch, and this source also processes chemicals in order to produce graphite lubricants that are also used in industry to coat products. Therefore, pursuant to 326 IAC 2-2-1 (gg)(1), this source is considered a chemical process plant, and is considered as 1 of the 28 source categories. Therefore, the fugitive emissions of criteria pollutants and hazardous air pollutants are counted toward the determination of 326 IAC 2-5.1-2 (Registrations) applicability.

Background and Description of Emission Units and Pollution Control Equipment

The Office of Air Quality (OAQ) has reviewed an application, submitted by Wise Technical Marketing on July 26, 2010, relating to the construction and operation of a stationary plant to manufacture dyes and surface coating products. The plant consists of one line to manufacture dyes and one line to manufacture lubricants that are sold to the surface coating industry. As shown in the calculations in Appendix A of this document, the potential to emit criteria pollutants is within the applicability thresholds for a Registration permit pursuant to 326 IAC 2-5.1. Therefore, a Registration is being issued.

The following is a list of the new emission units and pollution control devices:

- (a) One (1) water-base dye/pigment dispersion manufacturing process, identified as Dye1, all approved for construction in 2010, with a maximum throughput capacity of 3,500 tons of dry pigment per year, using dry filter baghouses as control, and consisting of the following:
- (1) Five (5) Premix Tanks, identified as Premix Tank 1 through Premix Tank 5, with each tank having a capacity of 1,500 gallons, all controlled by baghouse 22, baghouse 23-24, and baghouse 27-28, exhausting outdoors;
 - (2) Four (4) Sandmills, identified as Sandmill 1 through Sandmill 4, all sealed units, with no add-on controls;
 - (3) Two (2) Horizontal Mills, identified as Horizontal Mill 1 and Horizontal Mill 2, both sealed units, with no add-on controls. Note: These two units are both also used for the lubricant manufacturing process described in (b) below;
 - (4) Five (5) Let-down Tanks, identified as Let-Down Tank 1 through Tank 5, with each tank having a capacity of 2,500 gallons, controlled by Baghouse 29-30, exhausting outdoors;
 - (5) One (1) Filling operation, with a maximum throughput capacity of 800 gallons per hour, with no add-on controls, exhausting to atmosphere; and
- (b) One (1) solvent-base lubricant/pigment dispersion manufacturing process, identified as Lub-1, approved for construction in 2010, with a maximum throughput capacity of 1,500 tons of dry pigment per year, consisting of the following:

- (1) Three (3) Sealed mixer units, identified as MST-1682, MST-1226, and MST-8990, each with a maximum capacity of 300 gallons, all sealed units;
- (2) Four (4) Covered Mixer units, identified as MX-2109, MX-1226, MX-1867, and MX-2044, each with a maximum capacity of 500 gallons, all covered units;
- (3) Five (5) Sealed Media Mills, all sealed units, further identified as follows:
 - (A) PBM-1093 and PBM-1668, each with a maximum capacity of 500 gallons;
 - (B) PBM-1475, PBM-1765, and PBM-3529, each with a maximum capacity of 300 gallons.
- (4) One (1) Roll Mill, identified as RM-1220, with a maximum capacity of 100 gallons with no add-on controls;
- (5) Six (6) Portable Tanks, all covered units, further identified as follows:
 - (A) Portable Tank 1 and Portable Tank 2, each with a maximum capacity of 300 gallons;
 - (B) Portable Tank 3 and Portable Tank 5, each with a maximum capacity of 500 gallons; and
 - (C) Portable Tank 4 and Portable Tank 6, each with a maximum capacity of 800 gallons.
- (6) Two (2) Covered Air Driven Mixers, identified as TKX-1701 and TKX-7693, each covered, each with a maximum capacity of 100 gallons with no add-on controls;
- (7) Two (2) Finex Screeners, both sealed, identified as Finex Screener 1 and Finex Screener 2;
- (8) One (1) Magnetic Filter, sealed;
- (9) Two (2) Centrifuges, identified as Centrifuge 1 and Centrifuge 2;
- (10) One (1) Filling operation, with a maximum throughput capacity of 800 gallons per hour, with no add-on controls, exhausting to atmosphere; and
- (11) Two (2) Horizontal Mills, identified as Horizontal Mill 1 and Horizontal Mill 2, both sealed units, with no add-on controls. Note: These two units are both also used for the dye manufacturing process described in (a) above, and are the same emission units as described in (a)(3) above.

Enforcement Issues

There are no pending enforcement actions related to this source.

Emission Calculations

See Appendix A of this TSD for detailed emission calculations.

Permit Level Determination – Registration

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

Process/ Emission Unit	Potential To Emit of the Entire Source (tons/year)								
	PM	PM10*	PM2.5*	SO ₂	NO _x	VOC	CO	Worst Single HAP	Total HAPs
Dye Manufacturing Line, Dye-1	21.09	21.09	21.09	0.00	0.00	0.00	0.00	0.00	0.00
Lubricant Manufacturing Line, Lub-1	1.23	1.23	1.23	0.00	0.00	22.50	0.00	1.59 (xylene)	3.60
Fugitive Emissions	0.03	0.005	0.005	0.00	0.00	0.00	0.00	0.00	0.00
Total PTE of Entire Source	22.35	22.33	22.33	0.00	0.00	22.50	0.00	1.59 (xylene)	3.60
Exemptions Levels	5	5	5	10	10	5 or 10	25	25	10
Registration Levels	25	25	25	25	25	25	100	25	10

* Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant". PM2.5 is presumed to be equal to PM10.

- (a) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1(16)) of criteria pollutants are within the ranges listed in 326 IAC 2-5.1-2(a)(1). The PTE of all other regulated criteria pollutants are within the applicability thresholds listed in 326 IAC 2-5.1-2(a)(1). Therefore, the source is subject to the provisions of 326 IAC 2-5.1-2 (Registrations). A Registration will be issued.
- (b) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1(16)) of any single HAP is less than ten (10) tons per year and the PTE of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-7.

Federal Rule Applicability Determination

New Source Performance Standards (NSPS)

- (a) The requirements of the New Source Performance Standard for New Source Performance Standards (NSPS) for Volatile Organic Liquid Storage Vessels constructed before July 23, 1984, 40 CFR 60, Subparts K and Ka (326 IAC 12), are not included in the permit, since the tanks were constructed after 1984. Therefore, the requirements of 40 CFR 60, Subparts K and Ka do not apply.
- (b) The requirements of the New Source Performance Standard for New Source Performance Standards (NSPS) for Volatile Organic Liquid Storage Vessels constructed after July 23, 1984, 40 CFR 60, Subpart Kb (326 IAC 12), are not included in the permit, since the tanks serving the Dye Manufacturing lines contain no VOCs and the tanks serving the Lubricant Manufacturing lines have a storage capacity of less than 75 cubic meters (19,813 U.S. Gallons) each. Therefore, the requirements of 40 CFR 60, Subparts Kb do not apply.

- (c) The requirements of the New Source Performance Standard for New Source Performance Standards (NSPS) for Equipment Leaks of Volatile Organic Compounds in the Synthetic Organic Chemical Manufacturing Industry, 40 CFR 60, Subpart VVa (326 IAC 12), are not included in the permit, since the products or by-products of the Lubricant Manufacturing Line, Lub-1, are less than 1,102 tons per year of any one chemical listed in 40 CFR 60.489, and are, therefore, exempt. Therefore, the requirements of 40 CFR 60, Subpart VVa do not apply.
- (d) The requirements of the New Source Performance Standard for New Source Performance Standards (NSPS) for VOC Emissions from the Synthetic Organic Chemical Manufacturing Industry Distillation Operations, 40 CFR 60, Subpart NNN (326 IAC 12), are not included in the permit, since the products or by-products of the Dye Manufacturing Process, Dye 1, or the Lubricant Manufacturing Line, Lub-1, are not manufactured using a distillation process. Therefore, the requirements of 40 CFR 60, Subpart NNN do not apply.
- (e) The requirements of the New Source Performance Standard for New Source Performance Standards (NSPS) for VOC Emissions from the Synthetic Organic Chemical Manufacturing Industry Reactor Operations, 40 CFR 60, Subpart RRR (326 IAC 12), are not included in the permit, since the products or by-products of the Dye Manufacturing Process, Dye 1, or the Lubricant Manufacturing Line, Lub-1, are not manufactured using a reactor process. Therefore, the requirements of 40 CFR 60, Subpart RRR do not apply.
- (f) There are no other New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (g) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Miscellaneous Organic Chemical Manufacturing, 40 CFR 63, Subpart FFFF (326 IAC 20), are not included in the permit, since this source is not a major source of HAPs. Therefore, the requirements of 40 CFR 63, Subpart FFFF do not apply.
- (h) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Miscellaneous Coating Manufacturing, 40 CFR 63, Subpart HHHHH (326 IAC 20), are not included in the permit, since this source is not a major source of HAPs. Therefore, the requirements of 40 CFR 63, Subpart HHHHH do not apply.
- (i) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Wood Preserving for Area Sources, 40 CFR 63, Subpart QQQQQQ (326 IAC 20), are not included in the permit, since this source manufactures the dyes, but does not perform wood preserving activities. Therefore, the requirements of 40 CFR 63, Subpart QQQQQQ do not apply.
- (j) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Chemical Manufacturing for Area Sources, 40 CFR 63, Subpart VVVVVV (326 IAC 20), are not included in the permit, since this source does not use or manufacture any of the HAPs listed in Table 1 of the subpart. Therefore, the requirements of 40 CFR 63, Subpart VVVVVV do not apply.
- (k) There are no other National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in the permit.

Compliance Assurance Monitoring (CAM)

- (l) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is not included in the permit, because the unlimited potential to emit of the source is less than the Title V major source

thresholds and the source is not required to obtain a Part 70 or Part 71 permit.

State Rule Applicability Determination

The following state rules are applicable to the source:

- (a) 326 IAC 2-5.1-2 (Registrations)
Registration applicability is discussed under the Permit Level Determination – Registration section above.
- (b) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
The potential to emit of any single HAP is less than ten (10) tons per year and the potential to emit of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-4.1.
- (c) 326 IAC 2-6 (Emission Reporting)
Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is not located in Lake, Porter, or LaPorte County, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.
- (d) 326 IAC 5-1 (Opacity Limitations)
Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:
 - (1) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
 - (2) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.
- (e) 326 IAC 6-4 (Fugitive Dust Emissions Limitations)
Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4.
- (f) 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)
The source is not subject to the requirements of 326 IAC 6-5, because the source does not have potential fugitive particulate emissions greater than 25 tons per year. Therefore, 326 IAC 6-5 does not apply.
- (g) 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)
Since PTE is based on each process, not on each individual component, 326 IAC is also applied with the same analysis.

Pursuant to 326 IAC 6-3, the dye manufacturing process and the lubrication manufacturing process emission limitations are shown below. The pounds per hour limitations were calculated with the following equation:

The interpolation of the data for a process rate of up to 30 tons per hour shall be accomplished by using the following formula:

$$E = 4.10 P^{0.67}$$

where E = rate of emissions in pounds per hour; and
P = process rate in tons per hour

- (1) The process rate for the dye manufacturing process, Dye 1, is 3,500 tons of dry pigment per year, or 0.40 tons per hour. Therefore, the rate of emissions from the dye manufacturing process shall not exceed 2.22 pounds particulate per hour when operating at a process rate of 0.40 tons per hour.

The potential to emit particulate from the dye manufacturing process is 21.09 tons per year, or 4.81 lb/hr. Based on this potential to emit, the dye manufacturing process line cannot comply with the limit of 2.22 lb/hr without the use of a control device. Therefore, at least one of the Baghouses 22, 29-30, 23-24, and 27-28 must operate at all times that the dye manufacturing line is introducing dry materials into the process, and must operate according to manufacturer's specifications at all times.

- (2) The process rate for the lubrication manufacturing process, Lub-1, is 1,500 tons of dry pigment per year, or 0.17 tons per hour. Therefore, the rate of emissions from the dye manufacturing process shall not exceed 1.25 pounds particulate per hour when operating at a process rate of 0.17 tons per hour.

The potential to emit particulate from the lubricant process is 1.23 tons per year, or 0.28 lb/hr. Based on this potential to emit, the lubricant line can comply with the limit of 1.25 lb/hr without the use of a control device.

- (h) 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
Each of the emission units at this source is not subject to the requirements of 326 IAC 8-1-6, since the unlimited VOC potential emissions from each emission unit is less than twenty-five (25) tons per year.
- (i) 326 IAC 8-9 (Volatile Organic Liquid Storage Vessels)
The source is not subject to the requirements of 326 IAC 8-9 because each of the storage vessels has a storage capacity of less than 39,000 gallons. Therefore, the requirements of 326 IAC 8-9 do not apply.
- (i) 326 IAC 12 (New Source Performance Standards)
See Federal Rule Applicability Section of this TSD.
- (k) 326 IAC 20 (Hazardous Air Pollutants)
See Federal Rule Applicability Section of this TSD.

Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on July 26, 2010. Additional information was received on August 26, 2010 and October 4, 2010.

The construction and operation of this source shall be subject to the conditions of the attached proposed Registration No. 043-29501-00063. The staff recommends to the Commissioner that this Registration be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Jack Harmon at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCM 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 233-4228 or toll free at 1-800-451-6027 extension 3-4228.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.in.gov/idem

**Appendix A: Emissions Calculations
Uncontrolled Potential to Emit Summary**

Company Name: Wise Technical Marketing
Address City IN Zip: 800 Industrial Blvd., New Albany, Indiana 47150
Permit Number: 043-29501-00063
Pit ID: 043-00063
Reviewer: Jack Harmon
Date: 9/1/2010

Uncontrolled Potential to Emit (tons per year)

<u>Emissions Units</u>	<u>PM</u>	<u>PM10</u>	<u>PM2.5</u>	<u>SO2</u>	<u>Nox</u>	<u>VOC</u>	<u>CO</u>	<u>Single HAP</u>	<u>Total HAPs</u>
Dye Manufacturing Line	21.09	21.09	21.09	0.00	0.00	0.00	0.00	0.00	0.00
Lubricant Manufacturing Line	1.23	1.23	1.23	0.00	0.00	22.50	0.00	1.59 (xylene)	3.60
Fugitives	0.03	0.005	0.005	0.00	0.00	0.00	0.00	0.00	0.00
Total Uncontrolled Emissions	22.35	22.33	22.33	0.00	0.00	22.50	0.00	1.59	3.60
Registration Threshold	<25.00	<25.00	<25.00	<25.00	<25.00	<25.00	<25.00	<10.00	<25.00

**Appendix A: Emissions Calculations
Dye Manufacturing Line**

Company Name: Wise Technical Marketing
Address City IN Zip: 800 Industrial Blvd., New Albany, Indiana 47150
Permit Number: 043-29501-00063
Plt ID: 043-00063
Reviewer: Jack Harmon
Date: 9/1/2010

Maximum Line Capacity
Pounds per Year
7,000,000

Maximum Line Capacity Throughput
Tons per year
3500.0

Maximum Dry Pigment Throughput Capacity
4,218,247 pounds per year

Maximum Dry Pigment Throughput Capacity
2109.1 tons per year

	Pollutant			
	PM*	PM10*	PM2.5*	VOC**
Emission Factor in lb/ton of dry pigment throughput	20.0	20.0	20.0	0.0
Potential Emission in tons/yr	21.09	21.09	21.09	0.00

*PM emission factor is from AP-42, Volume I, Chapter 6.4-1, (05-1983). PM10 and PM2.5 assumed to be equal to PM. It is based on dry pigment material throughput, and includes transfer and handling.
Dye manufacturing line is water-base and uses no VOC materials.

Emission factors and PTE are based on the maximum capacity of the process, and not each individual component.

Methodology

Tons per year throughput = pounds per year/2000 pounds per ton

Potential emissions tons per year = tons per year throughput*emission factor pounds per ton/2000 pound per ton

**Appendix A: Emissions Calculations
Lubricant Manufacturing Line**

Company Name: Wise Technical Marketing
Address City IN Zip: 800 Industrial Blvd., New Albany, Indiana 47150
Permit Number: 043-29501-00063
Pit ID: 043-00063
Reviewer: Jack Harmon
Date: 9/1/2010

Maximum Line Capacity
Pounds per Year
3,000,000

Maximum Line Capacity Throughput
Tons per year
1500.0

Maximum Dry Pigment Throughput Capacity
245,767 pounds per year

Maximum Dry Pigment Throughput Capacity
122.9 tons per year

Emission Factor in lb/ton	Pollutant			
	PM* 20.0	PM10* 20.0	PM2.5* 20.0	VOC** 30.0
Potential Emission in tons/yr	1.23	1.23	1.23	22.50

*PM emission factor is from AP-42, Volume I, Chapter 6.4-1, (05-1983). PM10 and PM2.5 assumed to be equal to PM. It is based on dry pigment material throughput, and includes transfer and handling.

**Voc emission factor is from AP-42, Volume I, Chapter 6.4-1 and is based on total product throughput

Lubricant manufacturing line is solvent-base and uses VOC materials.

Emission factors and PTE are based on the maximum capacity of the process, and not each individual component.

Methodology

Tons per year throughput = pounds per year/2000 pounds per ton

Potential emissions tons per year = tons per year throughput*emission factor pounds per ton/2000 pound per ton

See page 2 for HAPs emissions calculations.

**Appendix A: Emissions Calculations
Lubricant Manufacturing Line**

HAPs Emissions

Company Name: Wise Technical Marketing
Address City IN Zip: 800 Industrial Blvd., New Albany, Indiana 47150
Permit Number: 043-29501-00063
Pit ID: 043-00063
Reviewer: Jack Harmon
Date: 9/1/2010

Total VOC Usage (tons per year): 1177.0
 Total HAP Usage (tons per year): 186.5
 HAP Portion of total VOC Usage (%): 15.80%
 TOTAL HAP EMISSIONS (tons per year): 3.60

Highest HAPs:	Maximum Usage (tons/yr)	% of Total HAPs	HAP Emissions (tons/year)
Xylene	82.2	0.441	1.59
MIBK	22.3	0.120	0.43
Toluene	81.9	0.439	1.58
Isopropanol	0.04	0.000	0.00

Methodology:

AP-42 indicates that HAPs can be estimated based on total solvent used, the usage of the HAP, and the total VOC.
 Hap emissions per HAP = usage (tons/year)/186.5 = % of total HAP usage x Total HAP emissions

**Appendix A: Emissions Calculations
Fugitives - Paved Roads**

Company Name: Wise Technical Marketing
Address City IN Zip: 800 Industrial Blvd., New Albany, Indiana 47150
Permit Number: 043-29501-00063
Pit ID: 043-00063
Reviewer: Jack Harmon
Date: 9/1/2010

Paved Roads at Industrial Site

The following calculations determine the amount of emissions created by paved roads, based on 8,760 hours of use and AP-42, Ch 13.2.1 (12/2003).

Vehicle Information (provided by source)

Type	Maximum number of vehicles	Number of one-way trips per day per vehicle	Maximum trips per day (trip/day)	Maximum Weight Loaded (tons/trip)	Total Weight driven per day (ton/day)	Maximum one-way distance (feet/trip)	Maximum one-way distance (mi/trip)	Maximum one-way miles (miles/day)	Maximum one-way miles (miles/yr)
Vehicle (entering plant) (one-way trip)	1.0	1.2	1.2	20.1	24.2	468	0.089	0.1	39.0
Vehicle (leaving plant) (one-way trip)	1.0	1.2	1.2	20.1	24.2	468	0.089	0.1	39.0
			0.0		0.0		0.000	0.0	0.0
			0.0		0.0		0.000	0.0	0.0
Total			2.4		48.5			0.2	77.9

Average Vehicle Weight Per Trip = $\frac{20.1}{1.2}$ tons/trip
 Average Miles Per Trip = $\frac{0.09}{1.2}$ miles/trip

Unmitigated Emission Factor, $E_f = [k * (sL/2)^{0.65} * (W/3)^{1.5} - C]$ (Equation 1 from AP-42 13.2.1)

	PM	PM10	
where k =	0.082	0.016	lb/mi = particle size multiplier (AP-42 Table 13.2.1-1)
W =	20.1	20.1	tons = average vehicle weight (provided by source)
C =	0.00047	0.00047	lb/mi = emission factor for vehicle exhaust, brake wear, and tire wear (AP-42 Table 13.2.1-2)
sL =	0.6	0.6	g/m ² = Ubiquitous Baseline Silt Loading Values of paved roads (Table 13.2.1-3 for summer months)

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

Mitigated Emission Factor, $E_{ext} = E_f * [1 - (p/4N)]$
 where p = $\frac{125}{365}$ days of rain greater than or equal to 0.01 inches (see Fig. 13.2.1-2)
 N = 365 days per year

	PM	PM10	
Unmitigated Emission Factor, E_f =	0.65	0.13	lb/mile
Mitigated Emission Factor, E_{ext} =	0.60	0.12	lb/mile
Dust Control Efficiency =	50%	50%	(pursuant to control measures outlined in fugitive dust control plan)

Process	Unmitigated PTE of PM (tons/yr)	Unmitigated PTE of PM10 (tons/yr)	Mitigated PTE of PM (tons/yr)	Mitigated PTE of PM10 (tons/yr)	Controlled PTE of PM (tons/yr)	Controlled PTE of PM10 (tons/yr)
Vehicle (entering plant) (one-way trip)	0.01	0.00	0.01	0.00	0.01	0.00
Vehicle (leaving plant) (one-way trip)	0.01	0.00	0.01	0.00	0.01	0.00
	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00
	0.025	0.005	0.023	0.005	0.012	0.002

Methodology

Total Weight driven per day (ton/day) = [Maximum Weight Loaded (tons/trip)] * [Maximum trips per day (trip/day)]
 Maximum one-way distance (mi/trip) = [Maximum one-way distance (feet/trip)] / [5280 ft/mile]
 Maximum one-way miles (miles/day) = [Maximum trips per year (trip/day)] * [Maximum one-way distance (mi/trip)]
 Average Vehicle Weight Per Trip (ton/trip) = SUM[Total Weight driven per day (ton/day)] / SUM[Maximum trips per day (trip/day)]
 Average Miles Per Trip (miles/trip) = SUM[Maximum one-way miles (miles/day)] / SUM[Maximum trips per year (trip/day)]
 Unmitigated PTE (tons/yr) = [Maximum one-way miles (miles/yr)] * [Unmitigated Emission Factor (lb/mile)] * (ton/2000 lbs)
 Mitigated PTE (tons/yr) = [Maximum one-way miles (miles/yr)] * [Mitigated Emission Factor (lb/mile)] * (ton/2000 lbs)
 Controlled PTE (tons/yr) = [Mitigated PTE (tons/yr)] * [1 - Dust Control Efficiency]

Abbreviations

PM = Particulate Matter
 PM10 = Particulate Matter (<10 um)
 PTE = Potential to Emit

Appendix A: Emissions Calculations
Fugitives - Paved Roads

Company Name: Wise Technical Marketing
Address City IN Zip: 800 Industrial Blvd., New Albany, Indiana 47150
Permit Number: 043-29501-00063
Pit ID: 043-00063
Reviewer: Jack Harmon
Date: 9/1/2010

Paved Roads Methodology Continued

Average of Maximum and Minimum Truck Size	
10,000,000 lbs Potential Production	
5500 lbs loaded pick up	
75000 lbs loaded semi (30,000 lbs empty + 45,000 load)	
80500 lbs total	
40250 lbs average gross weight	
20.13 tons average gross weight	
500 lbs pick up payload	
45000 lbs semi payload	
45500 total	
22750 lbs average payload	
440 truckloads/year at	22750 lbs average payload
365 total days /year	
1.20 average trucks / day in a 365 day year	
447 ft to primary dock	
657 ft to alternate dock	
90 % primary dock	
10 % alternate dock	
468 ft weighted average to docks	



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

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

TO: David Wise
Wise Technical Marketing
800 Industrial Blvd
New Albany IN 47150

DATE: November 15, 2010

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

SUBJECT: Final Decision
Registration
043 - 29501 - 00063

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:
Charles Huff C.R. Huff 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 11/30/07

Mail Code 61-53

IDEM Staff	LPOGOST 11/15/2010 Wise Technical Marketing 043 - 29501 - 00063 final)		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		David Wise Wise Technical Marketing 800 Industrial Blvd New Albany IN 47150 (Source CAATS) Via confirmed delivery									
2		Mr. Robert Bottom Paddlewheel Alliance P.O. Box 35531 Louisville KY 40232-5531 (Affected Party)									
3		Floyd County Commissioners 311-319 West 1st St, Rm 214 New Albany IN 47150 (Local Official)									
4		Floyd County Health Department 1917 Bono Rd New Albany IN 47150-4607 (Health Department)									
5		Ms. Sue Green 1985 Kopley Road Georgetown IN 47122 (Affected Party)									
6		Mr. Charles Huff C.R. Huff Environmental, Inc P.O. Box 537 Prospect KY 40059 (Consultant)									
7											
8											
9											
10											
11											
12											
13											
14											
15											

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See Domestic Mail Manual R900, S913, and S921 for limitations of coverage on inured and COD mail. See International Mail Manual for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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