



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: March 24, 2009

RE: Antioch Tire, Inc. / 089-27396-00542

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



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

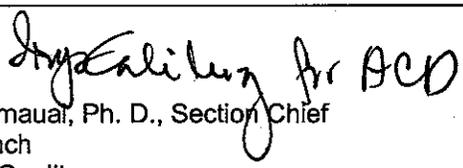
Thomas W. Easterly
Commissioner

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

REGISTRATION OFFICE OF AIR QUALITY

**Antioch Tire, Inc.
635 Conkey Street
Hammond, IN 46320**

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. 089-27396-00542	
Issued by:  Alfred C. Dumaul, Ph. D., Section Chief Permits Branch Office of Air Quality	Issuance Date: March 24, 2009

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 commercial truck tire retreading operation.

Source Address:	635 Conkey Street, Hammond, IN 46320
Mailing Address:	440 East Route 173, Antioch, IL 60002
General Source Phone Number:	(847) 395-8196
SIC Code:	7534
County Location:	Lake County
Source Location Status:	Nonattainment for 8-hour ozone standard Nonattainment for PM 2.5 standard Attainment for all other criteria pollutants
Source Status:	Registration

A.2 Emission Units and Pollution Control Equipment Summary

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

- (a) Three (3) tire buffer units, identified as TB-5, TB-6, and TB-19, approved for construction in 2009, each with a maximum grinding capacity of ten (10) tires per hour, with water mist for control, venting to an accumulation trailer, equipped with a filter system.
- (b) One (1) backup tire buffer unit, identified as TB-20, approved for construction in 2009, with a maximum grinding capacity of ten (10) tires per hour, with water mist for control, venting to an accumulation trailer, equipped with a filter system.
- (c) One (1) tire repair area, containing four (4) Skive patch/repair units, identified as SK-28, SK-29, SK-30 and SK-31, and four miscellaneous repair work stations identified as R-32, R-33, R-34, and R-35, approved for construction in 2009, each with a maximum throughput of ten (10) tires per hour, venting indoors.
- (d) Two (2) cushion extruders, identified as E-4 and E-15, approved for construction in 2009, venting indoors, each with a maximum throughput of ten (10) tires per hour.
- (e) One (1) backup cushion extruder, identified as E-24, approved for construction in 2009, venting indoors, with a maximum throughput of ten (10) tires per hour.
- (f) Four (4) tread application units, identified as Builders 7, 8, 16, and 17, approved for construction in 2009, venting indoors, each with a maximum throughput of ten (10) tires per hour.
- (g) One (1) backup tread application unit, identified as Builder 18, approved for construction in 2009, venting indoors, with a maximum throughput of ten (10) tires per hour.
- (h) Six (6) electric heat tire rubber curing chambers, identified as Cure 1, 2, 3, 13, 14, and 23, approved for construction in 2009, each with a maximum throughput of 5.5 tires per hour, exhausting to stack Cure 1.

- (i) Two (2) backup electric heat tire rubber curing chambers, identified as Cure 25 and Cure 26, approved for construction in 2009, each with a maximum throughput of 5.5 tires per hour, exhausting to stack Cure 1.
- (j) One (1) tire painting station, identified as BTP-1, approved for construction in 2009, with a maximum throughput of sixty (60) tires per hour, utilizing an air atomization method of coating application, exhausting indoors.

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. 089-27396-00542 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.

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 twenty percent (20%) 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) Three (3) tire buffer units, identified as TB-5, TB-6, and TB-19, approved for construction in 2009, each with a maximum grinding capacity of ten (10) tires per hour, with water mist for control, venting to an accumulation trailer, equipped with a filter system.
- (b) One (1) backup tire buffer unit, identified as TB-20, approved for construction in 2009, with a maximum grinding capacity of ten (10) tires per hour, with water mist for control, venting to an accumulation trailer, equipped with a filter system.
- (c) One (1) tire repair area, containing four (4) Skive patch/repair units, identified as SK-28, SK-29, SK-30 and SK-31, and four miscellaneous repair work stations identified as R-32, R-33, R-34, and R-35, approved for construction in 2009, each with a maximum throughput of ten (10) tires per hour, venting indoors.
- (d) Two (2) cushion extruders, identified as E-4 and E-15, approved for construction in 2009, each with a maximum throughput of ten (10) tires per hour.
- (e) One (1) backup cushion extruder, identified as E-24, approved for construction in 2009, with a maximum throughput of ten (10) tires per hour.
- (f) Four (4) tread application units, identified as Builders 7, 8, 16, and 17, approved for construction in 2009, each with a maximum throughput of ten (10) tires per hour.
- (g) One (1) backup tread application unit, identified as Builder 18, approved for construction in 2009, with a maximum throughput of ten (10) tires per hour.
- (h) Six (6) electric heat tire rubber curing chambers, identified as Cure 1, 2, 3, 13, 14, and 23, approved for construction in 2009, each with a maximum throughput of 5.5 tires per hour, exhausting to stack Cure 1.
- (i) Two (2) backup electric heat tire rubber curing chambers, identified as Cure 25 and Cure 26, approved for construction in 2009, each with a maximum throughput of 5.5 tires per hour, exhausting to stack Cure 1.
- (j) One (1) tire painting station, identified as BTP-1, approved for construction in 2009, with a maximum throughput of sixty (60) tires per hour, utilizing an air atomization method of coating application, 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 2-5.1-2(f)(1)] [326 IAC 2-5.5-4(a)(1)]

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

Pursuant to 326 IAC 6-3-2, the one (1) tire painting station, identified as BTP-1, shall be controlled by a dry particulate filter, waterwash, or an equivalent device, subject to the following:

- (a) The source shall operate the control device in accordance with the manufacturer's specifications.
- (b) If overspray is visibly detected at the exhaust

**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:	Antioch Tire, Inc.
Address:	635 Conkey Street
City:	Hammond, Indiana 46320
Phone Number:	(847) 395-8196
Registration No.:	089-27396-00542

I hereby certify that Antioch Tire, Inc. is :

still in operation.

I hereby certify that Antioch Tire, Inc. is :

no longer in operation.

in compliance with the requirements of Registration No. 089-27396-00542.

not in compliance with the requirements of Registration No. 089-27396-00542.

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: Antioch Tire, Inc.
Source Location: 635 Conkey Street, Hammond, IN 46320
County: Lake
SIC Code: 7534
Registration No.: 089-27396-00542
Permit Reviewer: Summer Keown

On January 22, 2009, the Office of Air Quality (OAQ) has received an application from Antioch Tire, Inc. related to the construction and operation of a new commercial truck tire retreading operation.

Existing Approvals

There have been no previous approvals issued to this source.

County Attainment Status

The source is located in Lake County.

Pollutant	Designation
SO ₂	Better than national standards.
CO	Attainment effective February 18, 2000, for the part of the city of East Chicago bounded by Columbus Drive on the north; the Indiana Harbor Canal on the west; 148 th Street, if extended, on the south; and Euclid Avenue on the east. Unclassifiable or attainment effective November 15, 1990, for the remainder of East Chicago and Lake County.
O ₃	Nonattainment Subpart 2 Moderate effective June 15, 2004, for the 8-hour ozone standard. ¹
PM ₁₀	Attainment effective March 11, 2003, for the cities of East Chicago, Hammond, Whiting, and Gary. Unclassifiable effective November 15, 1990, for the remainder of Lake County.
NO ₂	Cannot be classified or better than national standards.
Pb	Not designated.
¹ Nonattainment Severe 17 effective November 15, 1990, for the Chicago-Gary-Lake County area for the 1-hour ozone standard which 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 (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.

(i) 1-hour ozone standard

On December 22, 2006 the United States Court of Appeals, District of Columbia issued a decision which served to partially vacate and remand the U.S. EPA's final rule for

implementation of the eight-hour National Ambient Air quality Standard for ozone. *South Coast Air Quality Mgmt. Dist. v. EPA*, 472 F.3d 882 (D.C. Cir., December 22, 2006), *rehearing denied* 2007 U.S. App. LEXIS 13748 (D.C. Cir., June 8, 2007). The U.S. EPA has instructed IDEM to issue permits in accordance with its interpretation of the *South Coast* decision as follows: Gary-Lake-Porter County was previously designated as a severe non-attainment area prior to revocation of the one-hour ozone standard, therefore, pursuant to the anti-backsliding provisions of the Clean Air Act, any new or existing source must be subject to the major source applicability cut-offs and offset ratios under the area's previous one-hour standard designation. This means that a source must achieve the Lowest Achievable Emission Rate (LAER) if it exceeds 25 tons per year of VOC emissions and must offset any increase in VOC emissions by a decrease of 1.3 times that amount.

On January 26, 1996 in 40 CFR 52.777(i), the U.S. EPA granted a waiver of the requirements of Section 182(f) of the CAA for Lake and Porter Counties, including the lower NOx threshold for nonattainment new source review. Therefore, VOC emissions alone are considered when evaluating the rule applicability relating to the 1-hour ozone standards. Therefore, VOC emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3. See the State Rule Applicability for the source section.

(ii) 8-hour ozone standard

VOC and NOx emissions are considered when evaluating the rule applicability relating to the 8-hour ozone standard. Lake County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3. See the State Rule Applicability – Entire Source section.

(b) PM2.5

U.S. EPA, in the Federal Register Notice 70 FR 943 dated January 5, 2005, has designated Lake County as nonattainment for PM2.5. On March 7, 2005 the Indiana Attorney General's Office, on behalf of IDEM, filed a law suit 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 PM2.5 promulgated on May 8th, 2008, and effective on July 15th 2008. Therefore, direct PM2.5 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

Lake 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

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 Antioch Tire, Inc. on January 22, 2009, relating to the construction and operation of a commercial truck tire retreating operation.

The following is a list of the new emission units:

- (a) Three (3) tire buffer units, identified as TB-5, TB-6, and TB-19, approved for construction in 2009, each with a maximum grinding capacity of ten (10) tires per hour, with water mist for control, venting to an accumulation trailer, equipped with a filter system.
- (b) One (1) backup tire buffer unit, identified as TB-20, approved for construction in 2009, with a maximum grinding capacity of ten (10) tires per hour, with water mist for control, venting to an accumulation trailer, equipped with a filter system.
- (c) One (1) tire repair area, containing four (4) Skive patch/repair units, identified as SK-28, SK-29, SK-30 and SK-31, and four miscellaneous repair work stations identified as R-32, R-33, R-34, and R-35, approved for construction in 2009, each with a maximum throughput of ten (10) tires per hour, venting indoors.
- (d) Two (2) cushion extruders, identified as E-4 and E-15, approved for construction in 2009, venting indoors, each with a maximum throughput of ten (10) tires per hour.
- (e) One (1) backup cushion extruder, identified as E-24, approved for construction in 2009, venting indoors, with a maximum throughput of ten (10) tires per hour.
- (f) Four (4) tread application units, identified as Builders 7, 8, 16, and 17, approved for construction in 2009, venting indoors, each with a maximum throughput of ten (10) tires per hour.
- (g) One (1) backup tread application unit, identified as Builder 18, approved for construction in 2009, venting indoors, with a maximum throughput of ten (10) tires per hour.
- (h) Six (6) electric heat tire rubber curing chambers, identified as Cure 1, 2, 3, 13, 14, and 23, approved for construction in 2009, each with a maximum throughput of 5.5 tires per hour, exhausting to stack Cure 1.
- (i) Two (2) backup electric heat tire rubber curing chambers, identified as Cure 25 and Cure 26, approved for construction in 2009, each with a maximum throughput of 5.5 tires per hour, exhausting to stack Cure 1.
- (j) One (1) tire painting station, identified as BTP-1, approved for construction in 2009, with a maximum throughput of sixty (60) tires per hour, utilizing an air atomization method of coating application, exhausting indoors.

Enforcement Issues

There are no pending enforcement actions related to this source.

Emission Calculations

See Appendix A, pages 1 through 6, 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	NOx	VOC	CO	Total HAPs	Worst Single HAP
Tire Buffers	negl.	negl.	negl.	0.00	0.00	0.46	0.00	0.03	0.03
Extrusion	negl.	negl.	negl.	0.00	0.00	0.04	0.00	0.05	0.05
Curing	negl.	negl.	negl.	0.00	0.00	5.21	0.00	3.08	2.72
Tire Painting	2.95	2.95	2.95	0.00	0.00	12.61	0.00	negl.	negl.
Tire Repair	negl.	negl.	negl.	0.00	0.00	6.04	0.00	3.33	3.33
Total PTE of Entire Source	2.95	2.95	2.95	0.00	0.00	24.36	0.00	3.33	3.33
Exemptions Levels	5	5	5	10	10	5 or 10	25	25	10
Registration Levels	25	25	25	25	25	25	100	25	10
negl. = negligible * 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".									

- (a) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1(16)) of VOC is within the ranges listed in 326 IAC 2-5.1-2(a)(1). The PTE of all other regulated criteria pollutants are less than the ranges 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 the Rubber Tire Manufacturing Industry, 40 CFR 60, Subpart BBB (326 IAC 12) because this source is a tire retreading operation and not a rubber tire manufacturing plant.
- (b) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (c) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for the Rubber Tire Manufacturing Industry, 40 CFR 63, Subpart XXXX (326 IAC 20-55), are not included in the permit, because this source is not a major source of hazardous air pollutants (HAPs).

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

Compliance Assurance Monitoring (CAM)

- (e) 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 located in Lake County, it has potential to emit of NOx and VOC of less than twenty-five (25) tons per year, 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 twenty percent (20%) 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 and this source is located in Lake County. Therefore, 326 IAC 6-5 does not apply.
- (g) 326 IAC 6.8-10 (Lake County: Fugitive Particulate Matter)
The source is not subject to the requirements of 326 IAC 6.8-10, because there are no fugitive

dust sources that have potential fugitive particulate emissions greater than 5 tons per year.

- (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.

Tire Buffing

- (i) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
The four (4) tire buffer units, identified as TB-5, TB-6, TB-19, and TB-20, are not subject to the requirements of 326 IAC 6-3-2 because the potential to emit of each tire buffer unit is less than 0.551 pounds per hour of particulate.
- (i) 326 IAC 6.8-1 (Particulate Matter Limitations for Lake County)
The four (4) tire buffer units, identified as TB-5, TB-6, TB-19, and TB-20, are not subject to the requirements of 328 IAC 6.8-1 because the source is not specifically listed in this rule, the potential particulate matter emissions from the source are less than one hundred (100) tons per year, and the actual particulate emissions will be less than (10) tons per year.

Curing Chambers

- (k) 326 IAC 8-1-6 (New Facilities; General Reduction Requirements)
The curing chambers are not subject to the requirements of 326 IAC 8-1-6 because they do not have potential emissions of twenty-five (25) tons or more per year of VOC.

Tire Painting Station

- (l) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-2, the one (1) tire painting station, identified as BTP-1, shall be controlled by a dry particulate filter, waterwash, or an equivalent device, subject to the following:
- (1) The source shall operate the control device in accordance with the 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 the 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.
- (m) 326 IAC 6.8-1 (Particulate Matter Limitations for Lake County)
Pursuant to 326 IAC 6.8-1, the one (1) tire painting station, identified as BTP-1, is not subject to the requirements of 328 IAC 6.8-1 because the source is not specifically listed in this rule, the potential particulate matter emissions from the source are less than one hundred (100) tons per year, and the actual particulate emissions will be less than (10) tons per year.

- (n) 326 IAC 8-1-6 (New Facilities; General Reduction Requirements)
The one (1) tire painting station, identified as BTP-1, is not subject to the conditions of 326 IAC 8-1-6 because the potential to emit VOC from this facility is less than twenty-five (25) tons per year.

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 January 22, 2009.

The construction and operation of this source shall be subject to the conditions of the attached proposed Registration No. 089-27396-00542. The staff recommends to the Commissioner that this Registration be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Summer Keown at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-5175 or toll free at 1-800-451-6027 extension 4-5175.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

**Appendix A: Emissions Calculations
Particulate and VOC Emissions
Summary**

Company Name: Antioch Tire Inc.
Address City IN Zip: 635 Conkey Street, Hammond, IN 46320
Registration Number: 089-27396-00542
Reviewer: Summer Keown
Date: March 16, 2009

Uncontrolled/Unlimited Potential Emissions

Emissions Units	PM	PM10	PM2.5	SO2	NOx	VOC	CO	Single HAP	Total HAPs
Tire Buffers	negl.	negl.	negl.	0.00	0.00	0.46	0.00	0.03	0.03
Extrusion	negl.	negl.	negl.	0.00	0.00	0.04	0.00	0.05	0.12
Curing	negl.	negl.	negl.	0.00	0.00	5.21	0.00	2.72 (carbon disulfide)	3.08
Tire Painting	2.95	2.95	2.95	0.00	0.00	12.61	0.00	negl.	negl.
Tire Repair	negl.	negl.	negl.	0.00	0.00	6.04	0.00	3.33 (trichloroethylene)	3.33
Total	2.95	2.95	2.95	0.00	0.00	24.36	0.00	3.33 (trichloroethylene)	6.56

**Appendix A: Emission Calculations
Particulate, VOC, and HAP Emissions
From Tire Buffing Operations**

**Company Name: Antioch Tire Inc.
Address City IN Zip: 635 Conkey Street, Hammond, IN 46320
Registration Number: 089-27396-00542
Reviewer: Summer Keown
Date: March 16, 2009**

Emission Unit Description	Maximum Hourly Throughput (tires/hr)*	Material Removed from Each Tire (lbs/tire)	Maximum Material Removed (lbs/hr)	Maximum Rubber Extruded (lbs/yr)	PM/PM-10/PM2.5 Emission Factor (lb/lb rubber extruded)	Uncontrolled PM/PM-10/PM2.5 Potential to Emit (tons/yr)	Control Device	Control Efficiency	PM/PM-10/PM2.5 Controlled Potential to Emit (tons/yr)	VOC Emission Factor (lb/lb rubber extruded)	VOC Potential to Emit (tons/yr)	Total HAPs Emission Factor (lb/lb rubber removed)	Total HAPs Potential to Emit (tons/yr)
Tire Buffer (TB-5)	10	10.80	108.00	946,080	9.09E-07	4.30E-04	Sock Filters	95.00%	2.15E-05	2.43E-04	0.11	1.33E-05	0.01
Tire Buffer (TB-6)	10	10.80	108.00	946,080	9.09E-07	4.30E-04	Sock Filters	95.00%	2.15E-05	2.43E-04	0.11	1.33E-05	0.01
Tire Buffer (TB-19)	10	10.80	108.00	946,080	9.09E-07	4.30E-04	Sock Filters	95.00%	2.15E-05	2.43E-04	0.11	1.33E-05	0.01
Tire Buffer (TB-20)	10	10.80	108.00	946,080	9.09E-07	4.30E-04	Sock Filters	95.00%	2.15E-05	2.43E-04	0.11	1.33E-05	0.01
Potential Emissions (tons/yr):						1.72E-03			8.60E-05		0.46		0.03

METHODOLOGY

The emission factors are from U.S. EPA, AP-42, 5th Edition, Chapter 4.12, Draft 2008 MS Excel Spreadsheet c04s12_tables.xls for grinding Retread rubber were used.
 Potential to Emit (tons/yr) = Maximum Rubber Extruded (lbs/yr) x Emission Factor (lb/lb rubber extruded) x (1 ton/2,000 lbs)

**Appendix A: Emission Calculations
VOC and HAP Emissions
From One (1) Cushion/ Cured Tread Extruder**

Company Name: Antioch Tire Inc.
Address City IN Zip: 635 Conkey Street, Hammond, IN 46320
Registration Number: 089-27396-00542
Reviewer: Summer Keown
Date: March 16, 2009

Emission Unit Description	Maximum Hourly Throughput (tires/hr)*	Rubber Extruded (lbs/tire)	Maximum Rubber Extruded (lbs/hr)	Maximum Rubber Extruded (lbs/yr)	PM/PM-10 Emission Factor (lb/lb rubber extruded)	PM/PM-10 Potential to Emit (tons/yr)	VOC Emission Factor (lb/lb rubber extruded)	VOC Potential to Emit (tons/yr)	Total HAPs Emission Factor (lb/lb rubber removed)	Total HAPs Potential to Emit (tons/yr)	Single HAP (MeCl) Emission Factor (lb/lb rubber removed)	Single HAP (MeCl) Potential to Emit (tons/yr)
Extruder E-4	10.0	2.60	26	227,760	7.77E-09	8.85E-07	1.23E-05	0.00	3.52E-05	0.00	1.32E-05	0.00
Extruder E-15	10.0	2.60	26	227,760	7.77E-09	8.85E-07	1.23E-05	0.00	3.52E-05	0.00	1.32E-05	0.00
Extruder E-24	10.0	2.60	26	227,760	7.77E-09	8.85E-07	1.23E-05	0.00	3.52E-05	0.00	1.32E-05	0.00
Potential Emissions (tons/yr):						2.65E-06		0.00		0.01		0.00

METHODOLOGY

The emission factors are from U.S. EPA, AP-42, 5th Edition, Chapter 4.12, Draft 2008 MS Excel Spreadsheet c04s12_tables.xls for extruding Rubber Compound #6 (Tire Tread) were used
 Potential to Emit (tons/yr) = Maximum Rubber Extruded (lbs/yr) x Emission Factor (lb/lb rubber extruded) x (1 ton/2,000 lbs)

**Appendix A: Emission Calculations
VOC and HAP Emissions
From Hot Air Curing Chambers**

**Company Name: Antioch Tire, Inc.
Address City IN Zip: 635 Conkey Street, Hammond, IN 46320
Registration Number: 089-27396-00542
Reviewer: Summer Keown
Date: March 16, 2009**

Emission Unit Description	Maximum Hourly Throughput (tires/hr)*	Process Weight (lbs/tire)	Maximum Hourly Process Weight (lbs/hr)	Maximum Process Weight (lbs/yr)	PM/PM-10 Emission Factor (lb/lb rubber)	PM/PM-10 Potential to Emit (tons/yr)	VOC Emission Factor (lb/lb rubber)	VOC Potential to Emit (tons/yr)	Total HAPs Emission Factor (lb/lb rubber)	Total HAPs Potential to Emit (tons/yr)	Single HAP (Carbon Disulfide) Emission Factor (lb/lb rubber)	Single HAP (Carbon Disulfide) Potential to Emit (tons/yr)
Cure 1	5.5	2.6	14	125,268	0.00E+00	0.00	2.94E-03	0.18	1.74E-03	0.11	1.53E-03	0.10
Cure 2	5.5	2.6	14	125,268	0.00E+00	0.00	2.94E-03	0.18	1.74E-03	0.11	1.53E-03	0.10
Cure 3	5.5	2.6	14	125,268	0.00E+00	0.00	2.94E-03	0.18	1.74E-03	0.11	1.53E-03	0.10
Cure 13	5.5	2.6	14	125,268	0.00E+00	0.00	2.94E-03	0.18	1.74E-03	0.11	1.53E-03	0.10
Cure 14	5.5	2.6	14	125,268	0.00E+00	0.00	2.94E-03	0.18	1.74E-03	0.11	1.53E-03	0.10
Cure 23	5.5	2.6	14	125,268	0.00E+00	0.00	2.94E-03	0.18	1.74E-03	0.11	1.53E-03	0.10
Eight (8) Hot Air Curing Chambers	5.5	2.6	14	125,268	0.00E+00	0.00	2.94E-03	0.18	1.74E-03	0.11	1.53E-03	0.10
Potential Emissions (tons/yr):						0.00		1.29		0.76		0.67

Methodology:

The emission factors are from U.S. EPA, AP-42, 5th Edition, Chapter 4.12, Draft 2008 MS Excel Spreadsheet c04s12_tables.xls for hot air curing of Rubber Compound #22 were used as a worst case scenario.

Potential to Emit (tons/yr) = Maximum Process Weight (lbs/yr) x Emission Factor (lb/lb rubber) x (1 ton/2,000 lbs)

*Each of the hot air curing chambers has a capacity of 22 tires per four hour period. The source has eight (8) curing chambers on site, but two are used only as backup units. Therefore, calculations were performed for only six (6) curing chambers.

**Appendix A: Emissions Calculations
VOC and Particulate
From Tire Painting Station**

Company Name: Antioch Tire Inc.
Address City IN Zip: 635 Conkey Street, Hammond, IN 46320
Registration Number: 089-27396-00542
Reviewer: Summer Keown
Date: March 16, 2009

The coating used in the tire painting station is E844 BTP Concentrate.

Potential VOC Emissions:

60 tires/hour
0.12 gallons paint per tire
0.4 lbs VOC/gallon paint
8760 hours/year
1/2000 1 ton/2000 lbs
12.61 tons/year VOC

Methodology

$60 \text{ tires/hr} \times 0.12 \text{ gal/tire} \times 0.4 \text{ lbs VOC/gal} \times 8760 \text{ hours/yr} \times 1 \text{ ton}/2,000 \text{ lbs} = 12.61 \text{ tons/year VOC}$

Potential PM/PM10/PM2.5 Emissions:

60 tires/hour
0.12 gallons paint per tire
1.87 lbs solids/gal paint
5% overspray ratio
8760 hours/year
1/2000 1 ton/2000 lbs
2.95 tons/year PM/PM10/PM2.5

Potential HAP emissions:

The coating is water based. Pursuant to the MSDS for E844 BTM Concentrate, less than 0.01% is ethylene oxide. Therefore the single and total HAP potential emissions are negligible.

**Appendix A: Emission Calculations
VOC and HAP Emissions
From Tire Repair Area**

**Company Name: Antioch Tire, Inc.
Address City IN Zip: 635 Conkey Street, Hammond, IN 46320
Registration Number: 089-27396-00542
Reviewer: Summer Keown
Date: March 16, 2009**

Material	Material Use Rate (gal/tire)	Max. Tires/Year	Max. Potential Material Usage (gal/year)	Material Density (lb/gal)	Max. Potential Material use (lb/year)	VOC content %	Max. potential VOC emissions (lbs/year)	Max. potential VOC emissions (tons/year)	Trichloroethylene content %	Max. Potential Trichlor Emissions (lbs/year)	Max. Potential Trichloroethylene Emissions (tons/year)
Blue Tire Repair Cement	0.0017	350000	595.0	12.10	7199.5	82.60%	5947	2.97	92.50%	6659.54	3.33
Universal Cement	0.0016	350000	560.0	6.00	3360	86.70%	2913	1.46	0.00%	0.00	0.00
Bandag Solvent	0.0016	350000	560.0	5.77	3231.2	99.70%	3222	1.61	0.00%	0.00	0.00
Total								6.04			3.33

Methodology

Potential VOC emissions (tons/year) = Material Use Rate (gal/tire) x Max Tires/Year x Material Density (lb/gal) x VOC content

Potential HAP emissions (tons/year) = Material Use Rate (gal/tire) x Max Tires/Year x Material Density (lb/gal) x HAP content

Potential trichloroethylene emissions (tons/year) = Material Use Rate (gal/tire) x Max Tires/Year x Material Density (lb/gal) x trichloroethylene content