



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: January 20, 2011

RE: Parker Hannifin Corporation / 039-29059-00027

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

Notice of Decision: Approval - Effective Immediately

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

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

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

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

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

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

Enclosures
FNPER.dot12/03/07



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Federally Enforceable State Operating Permit Renewal OFFICE OF AIR QUALITY

**Parker Hannifin Corporation
1525 South 10th Street
Goshen, Indiana 46527**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

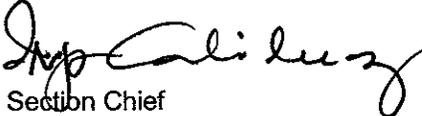
Operation Permit No.: F039-29059-00027	
Issued by:  Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: January 20, 2011 Expiration Date: January 20, 2021

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SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-8-3(b)]

The Permittee owns and operates a stationary rubber products (not tires) manufacturing source.

Source Address:	1525 South 10th Street, Goshen, Indiana 46527
General Source Phone Number:	574-528-9400
SIC Code:	3061
County Location:	Elkhart
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

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

- (a) One (1) natural gas-fired boiler, identified as EU #1, constructed in 1950, exhausting to stack 1, heat input capacity: 16.74 million British thermal units per hour.
- (b) One (1) rubber mixer, identified as EU #3, constructed in 1994, equipped with a baghouse and exhausting to stack 3, capacity: 1,500 pounds per hour.
- (c) Three (3) compression molding rubber presses, identified as EU #4a through EU #4c, constructed between 1973 and 2002, capacity: 20 pounds per hour, each, with no control.
- (d) Four (4) warm up mills, identified as EU #6, constructed between 1969 and 1982, capacity: 400 pounds of rubber per hour, total.
- (e) Five (5) extruders, identified as EU #7, constructed between 1979 and 1990, capacity: 400 pounds per hour, total.
- (f) Six (6) cure ovens, identified as EU #9, with unknown construction dates, exhausting through stacks 4 through 8, capacity: 20 pounds per hour, each.
- (g) Eighteen (18) grinders, ten (10) of the grinders were constructed prior to 1972, and eight (8) of the grinders were constructed prior to 1972 at a different source and brought to this location in 2004, identified as EU #5, each equipped with a cyclone, capacity: 50 pounds per hour, each.
- (h) Five (5) autoclaves, three (3) of the autoclaves were constructed between 1955 and 1970 and two (2) of the autoclaves were constructed in 2004/2005, identified as EU #8, capacity: 450 pounds per hour, each.

A.3 Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-8-3(c)(3)(I)]

This stationary source also includes the following insignificant activities:

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million BTU per hour, including one (1) boiler, identified as EU #2, constructed in 2004/2005, exhausting to stack 2, heat input capacity: 8.0 million British thermal units per hour. [326 IAC 6-2-4]
- (b) One (1) painting booth and two booths for stripping, identified as EU #10, the paint booth constructed in 1995 and the stripping booths in 2000, the paint booth exhausting through stack 3, capacity: 60 rubber tubes per hour.
- (c) Thirty-one (31) cutting lathes with negligible emissions, capacity: 260 pounds per hour.
- (d) Paved and unpaved roads and parking lots with public access.
- (e) Mold release agents using low volatile products (vapor pressure less than or equal to 2 kPa measured at 38 degrees C).
- (f) Enclosed bead cleaner, with no exhaust.

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) to renew a Federally Enforceable State Operating Permit (FESOP).

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-8-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-7) shall prevail.

B.2 Permit Term [326 IAC 2-8-4(2)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

- (a) This permit, F039-29059-00027, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

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

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

- (a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or
- (b) the emission unit to which the condition pertains permanently ceases operation.

B.4 Enforceability [326 IAC 2-8-6] [IC 13-17-12]

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

B.5 Severability [326 IAC 2-8-4(4)]

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

B.6 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

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

B.7 Duty to Provide Information [326 IAC 2-8-4(5)(E)]

- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 Certification [326 IAC 2-8-3(d)][326 IAC 2-8-4(3)(C)(i)][326 IAC 2-8-5(1)]

- (a) A certification required by this permit meets the requirements of 326 IAC 2-8-5(a)(1) if:

- (i) it contains a certification by an "authorized individual", as defined by 326 IAC 2-1.1-1(1), and
- (ii) the certification is based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) The Permittee may use the attached Certification Form, or its equivalent with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) An "authorized individual" is defined at 326 IAC 2-1.1-1(1).

B.9 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than April 15 of each year to:

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

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
 - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was continuous or intermittent;
 - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
 - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

The submittal by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.10 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.11 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)][326 IAC 2-8-5(a)(1)]

- (a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

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

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.12 Emergency Provisions [326 IAC 2-8-12]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:

- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
- (2) The permitted facility was at the time being properly operated;
- (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, or Northern Regional Office within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or

Telephone Number: 317-233-0178 (ask for Office of Air Quality, Compliance and Enforcement Branch)

Facsimile Number: 317-233-6865

Northern Regional Office phone: (574) 245-4870; fax: (574) 245-4877.

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

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

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
 - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5]

-
- (a) All terms and conditions of permits established prior to F039-29059-00027 and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.

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

B.14 Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3(h)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-9.

**B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination
[326 IAC 2-8-4(5)(C)][326 IAC 2-8-7(a)][326 IAC 2-8-8]**

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Federally Enforceable State Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
- (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]
- (c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

B.16 Permit Renewal [326 IAC 2-8-3(h)]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
 - (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-8-3(g), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.17 Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

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

Any such application does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.18 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-8-15(b) through (d) without a prior permit revision, if each of the following conditions is met:
 - (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
 - (2) Any approval required by 326 IAC 2-8-11.1 has been obtained;
 - (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
 - (4) The Permittee notifies the:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality

100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

- (5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-8-15(b) through (d). The Permittee shall make such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ in the notices specified in 326 IAC 2-8-15(b)(2), (c)(1), and (d).

- (b) **Emission Trades [326 IAC 2-8-15(c)]**
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).
- (c) **Alternative Operating Scenarios [326 IAC 2-8-15(d)]**
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (d) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.19 Source Modification Requirement [326 IAC 2-8-11.1]

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

B.20 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.21 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

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

Any such application does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.22 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ no later than thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.23 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][62 FR 8314] [326 IAC 1-1-6]

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-8-4(1)]

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

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

C.2 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

(a) Pursuant to 326 IAC 2-8:

- (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period.
- (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
- (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(b) Pursuant to 326 IAC 2-2 (PSD), potential to emit particulate matter (PM) from the entire source shall be limited to less than two hundred fifty (250) tons per twelve (12) consecutive month period.

(c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above specified limits.

(d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.3 Opacity [326 IAC 5-1]

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

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A,

Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.4 Open Burning [326 IAC 4-1] [IC 13-17-9]

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

C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

The Permittee shall not operate an incinerator except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

C.6 Fugitive Dust Emissions [326 IAC 6-4]

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

C.7 Stack Height [326 IAC 1-7]

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

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
- (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) **Procedures for Asbestos Emission Control**
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and Renovation**
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Licensed Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos.

Testing Requirements [326 IAC 2-8-4(3)]

C.9 Performance Testing [326 IAC 3-6]

- (a) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require a certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.10 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

Compliance Monitoring Requirements [326 IAC 2-8-4][326 IAC 2-8-5(a)(1)]

C.11 Compliance Monitoring [326 IAC 2-8-4(3)][326 IAC 2-8-5(a)(1)]

Unless otherwise specified in this permit, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or of initial start-up, whichever is later, to begin such monitoring. If due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance or the date of initial startup, whichever is later, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

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

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units or emission units added through a permit revision shall be implemented when operation begins.

C.12 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)][326 IAC 2-8-5(1)]

- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.
- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

Corrective Actions and Response Steps [326 IAC 2-8-4][326 IAC 2-8-5(a)(1)]

C.13 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee shall maintain the most recently submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.

- (b) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.14 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]

If a regulated substance, as defined in 40 CFR 68, is present at a source in more than a threshold quantity, the Permittee must comply with the applicable requirements of 40 CFR 68.

C.15 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]

Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:

- (a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
 - (1) initial inspection and evaluation;
 - (2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system); or
 - (3) any necessary follow-up actions to return operation to normal or usual manner of operation.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
 - (1) monitoring results;
 - (2) review of operation and maintenance procedures and records; and/or
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall record the reasonable response steps taken.

C.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][326 IAC 2-8-5]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline

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

The response action documents submitted pursuant to this condition do require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

C.17 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

C.18 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported except that a deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.
- (b) The address for report submittal is:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

Stratospheric Ozone Protection

C.19 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with applicable standards for recycling and emissions reduction.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Significant Boiler

- (a) One (1) natural gas-fired boiler, identified as EU #1, constructed in 1950, exhausting to stack 1, heat input capacity: 16.74 million British thermal units per hour.

(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 2-8-4(1)]

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

Pursuant to 326 IAC 6-2-3 (d) (Particulate Emission Limitations for Sources of Indirect Heating: emission limitations for facilities specified in 326 IAC 6-2-1 (b)), PM emissions from all facilities used for indirect heating purposes which were existing and in operation on or before June 8, 1972, shall in no case exceed 0.8 pounds of particulate matter per million British thermal units heat input.

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]: Rubber Product Manufacturing

- (b) One (1) rubber mixer, identified as EU #3, constructed in 1994, equipped with a baghouse and exhausting to stack 3, capacity: 1,500 pounds per hour.
- (c) Three (3) compression molding rubber presses, identified as EU #4a through EU #4c, constructed between 1973 and 2002, capacity: 20 pounds per hour, each, with no control.
- (d) Four (4) warm up mills, identified as EU #6, constructed between 1969 and 1982, capacity: 400 pounds of rubber per hour, total.
- (e) Five (5) extruders, identified as EU #7, constructed between 1979 and 1990, capacity: 400 pounds per hour, total.
- (f) Six (6) cure ovens, identified as EU #9, with unknown construction dates, exhausting through stacks 4 through 11, capacity: 20 pounds per hour, each.
- (g) Eighteen (18) grinders, ten (10) of the grinders were constructed prior to 1972, and eight (8) of the grinders were constructed prior to 1972 at a different source and brought to this location in 2004, identified as EU #5, each equipped with a cyclone, capacity: 50 pounds per hour, each.
- (h) Five (5) autoclaves, three (3) of the autoclaves were constructed between 1955 and 1970 and two (2) of the autoclaves were constructed in 2004/2005, identified as EU #8, capacity: 450 pounds per hour, each.

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

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.2.1 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emissions rate from the mixer shall not exceed 3.38 pound per hour when operating at a process weight rate of 1,500 pounds per hour. The pounds per hour limitation was calculated using the following equation:

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

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

D.2.2 FESOP Limit [326 IAC 2-8] [326 IAC 2-4.1-1]

- (a) The input of Compound #17 to the five (5) autoclaves, collectively identified as EU #8, shall not exceed 3,090 tons per twelve (12) consecutive month period, total, with compliance determined at the end of each month at a rate of 0.00191 lb/lb of rubber. This will limit the Hexane emissions from the five (5) autoclaves to 5.9 tons per year and less than ten (10) tons per year from the entire source - (entire source is 8.97 tons per year of Hexane emissions).

Note: Compound #17 is limited because it is the compound that emits the most Hexane

emissions.

- (b) The input of Compound #8 to the five (5) autoclaves, collectively identified as EU #8, shall not exceed 1,065 tons per twelve (12) consecutive month period, total, with compliance determined at the end of each month at a rate of 0.00593 lb/lb of rubber. This will limit the Carbon Disulfide emissions from the five (5) autoclaves to 6.32 tons per year and less than ten (10) tons per year from the entire source (entire source is 9.20 tons per year of Carbon Disulfide emissions).

Note: Compound #8 is limited because it is the compound that emits the most Carbon Disulfide emissions. In limiting Compound #8, Compounds #11, 12 and 18 are also limited and be specified in terms of equivalency.

For the purpose of this limit, using 1 ton of Compound #11 shall be considered equal to using 0.045 tons of Compound #8;

Using 1 ton of Compound #12 shall be considered equal to using 0.129 tons of Compound #8;

Using 1 ton of Compound #18 shall be considered equal to using 0.198 tons of Compound #8.

Compliance with this limits, combined with the potential to emit HAPs from all other emission units at this source, shall limit the source-wide total potential to emit of any single HAP to less than ten (10) tons per 12 consecutive month period, and total HAPs to less than twenty-five (25) tons per 12 consecutive month period and shall render 326 IAC 2-7 (Part 70 Permits), 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP), not applicable.

D.2.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

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

Compliance Determination Requirements

D.2.4 Particulate Control

In order to comply with Condition D.2.1, the baghouse for particulate control must be in operation and control emissions from the mixers at all times when the mixers are in operation.

Compliance Monitoring Determination

D.2.5 Visible Emissions Notations

- (a) Daily visible emission notations of the rubber mixer baghouse stack (#3) exhaust shall be performed during normal daylight operations when exhausting to the atmosphere. 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. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

D.2.6 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouse used in conjunction with the mixers, once per day when the process is in operation and venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 2.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ and shall be calibrated or replaced at least once every six (6) months.

D.2.7 Broken or Failed Bag Detection

- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission unit. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

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

D.2.8 Record Keeping Requirements

- (a) To document the compliance status with Condition D.2.2, the Permittee shall maintain records in accordance with (1) through (6) below. Records maintained for (1) through (6) shall be taken monthly and shall be complete and sufficient to establish compliance with the compound usage limits established in Condition D.2.2. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.
 - (1) The input of Compound #17 to the five (5) autoclaves, collectively identified as EU #8.

- (2) The input of Compound #8 to the five (5) autoclaves, collectively identified as EU #8.
 - (3) The input of Compound #11 to the five (5) autoclaves, collectively identified as EU #8, and the amount of Compound #8 to which the input is equivalent.
 - (4) The input of Compound #12 to the five (5) autoclaves, collectively identified as EU #8, and the amount of Compound #8 to which the input is equivalent.
 - (5) The input of Compound #18 to the five (5) autoclaves, collectively identified as EU #8, and the amount of Compound #8 to which the input is equivalent.
 - (6) The total of (1) through (5), above.
- (b) To document compliance with Condition D.2.5, the Permittee shall maintain daily records of the visible emissions notations of the baghouse stack exhaust. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of a visible emission notation (i.e. the process did not operate that day).
- (h) To document the compliance status with Condition D.2.6, the Permittee shall maintain the daily records of the pressure drop across the baghouse controlling the mixers. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading, (e.g., the process did not operate that day).
- (i) Section C - General Record Keeping Requirements, contains the Permittee's obligation with regard to the records required by this condition.

D.2.9 Reporting Requirements

A quarterly summary of the information to document the compliance status with Conditions D.2.2(a) and D.2.2(b) shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

SECTION D.3 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]: Insignificant Activities

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million Btu per hour, including one (1) boiler, identified as EU #2, constructed in 2004/2005, exhausting to stack 2, heat input capacity: 8.0 million British thermal units per hour. [326 IAC 6-2-4]
- (b) One (1) painting and two (2) stripping booths, identified as EU #10, the paint booth constructed in 1995 and the stripping booths in 2000, the paint booth exhausts through stack 3, capacity: 60 rubber tubes per hour.
- (c) Thirty-one (31) cutting lathes with negligible emissions, capacity: 260 pounds per hour.
- (d) Paved and unpaved roads and parking lots with public access.
- (e) Mold release agents using low volatile products (vapor pressure less than or equal to 2 kPa measured at 38 degrees C).
- (f) Enclosed bead cleaner, with no exhaust.

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

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.3.1 Particulate [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating) the PM emissions from the 8.0 million British thermal units per hour heat input boiler, identified as EU #2, shall be limited to 0.47 pounds per million British thermal units heat input.

This limitation is based on the following equation:

$$Pt = 1.09 / Q^{0.26}$$

where:

Pt = Pounds of particulate matter emitted per million British thermal units (lb/MMBtu) heat input

Q = Total source maximum operating capacity rating in million Btu per hour (mmBtu/hr) heat input. The maximum operating capacity rating is defined as the maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's permit application, except when some lower capacity is contained in the facility's operation permit; in which case, the capacity specified in the operation permit shall be used. This includes the 16.75 MMBtu/hr from the existing boiler.

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

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
CERTIFICATION**

Source Name: Parker Hannifin Corporation
Source Address: 1525 South 10th Street, Goshen, Indiana 46527
FESOP Permit No.: F039-29059-00027

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.

Please check what document is being certified:

- Annual Compliance Certification Letter
- Test Result (specify)_____
- Report (specify)_____
- Notification (specify)_____
- Affidavit (specify)_____
- Other (specify)_____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: (317) 233-0178
Fax: (317) 233-6865**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
EMERGENCY OCCURRENCE REPORT**

Source Name: Parker Hannifin Corporation
Source Address: 1525 South 10th Street, Goshen, Indiana 46527
FESOP Permit No.: F039-29059-00027

This form consists of 2 pages

Page 1 of 2

- This is an emergency as defined in 326 IAC 2-7-1(12)
- The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and
 - The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

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

FESOP Quarterly Report

Source Name: Parker-Hannifin Corporation
Source Address: 1525 South 10th Street, Goshen, Indiana 46527
FESOP No.: F039-29059-00027
Facility: Five (5) autoclaves, identified as EU #8
Parameter: Input of Compound #17 (Hexane Limit)
Limit: 3,090 tons per twelve (12) consecutive month period, total, with compliance determined at the end of each month

YEAR: _____

Month	Input of Compound #17 (tons)	Input of Compound #17 (tons)	Input of Compound #17 (tons)
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this month.
- Deviation/s occurred in this month.
Deviation has been reported on _____

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

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

FESOP Quarterly Report

Source Name: Parker-Hannifin Corporation
 Source Address: 1525 South 10th Street, Goshen, Indiana 46527
 FESOP No.: F039-29059-00027
 Facility: Five (5) autoclaves, identified as EU #8
 Parameter: Input of Compound #8 (Carbon Disulfide) and Compound #8 equivalents
 Limit: 1,065 tons per twelve (12) consecutive month period, total, with compliance determined at the end of each month. For the purposes of this limit, using 1 ton of Compound #11 shall be considered equal to using 0.045 tons of Compound #8, using 1 ton of Compound #12 shall be considered equal to using 0.129 tons of Compound #8 and using 1 ton of Compound #18 shall be considered equal to using 0.198 tons of Compound #8.

YEAR: _____

Month	Input of Compound #8 plus equivalent of Compounds #11, #12 and #18 to #8 (tons)	Input of Compound #8 plus equivalent of Compounds #11, #12 and #18 to #8 (tons)	Input of Compound #8 plus equivalent of Compounds #11, #12 and #18 to #8 (tons)
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this month.
- Deviation/s occurred in this month.
 Deviation has been reported on _____

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE AND ENFORCEMENT BRANCH
 FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
 QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Parker Hannifin Corporation
 Source Address: 1525 South 10th Street, Goshen, Indiana 46527
 FESOP Permit No.: F039-29059-00027

Months: _____ **to** _____ **Year:** _____

<p>This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements of this permit, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked ΔNo deviations occurred this reporting period@.</p>	
<input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

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

**Technical Support Document (TSD) for a Federally Enforceable State Operating
Permit Renewal**

Source Background and Description

Source Name:	Parker Hannifin Corporation
Source Location:	1525 South 10th Street, Goshen, Indiana 46527
County:	Elkhart
SIC Code:	3061
Permit Renewal No.:	039-29059-00027
Permit Reviewer:	Janet Mobley

The Office of Air Quality (OAQ) has reviewed the operating permit renewal application from Parker Hannifin Corporation relating to the operation of a stationary rubber products (not tires) manufacturing source.

History

On March 11, 2010, Parker Hannifin Corporation submitted an application to the OAQ requesting to renew its operating permit. Parker Hannifin Corporation was issued a New Source FESOP on December 8, 2005.

Permitted Emission Units and Pollution Control Equipment

- (a) One (1) natural gas-fired boiler, identified as EU #1, constructed in 1950, exhausting to stack 1, heat input capacity: 16.74 million British thermal units per hour.
- (b) One (1) rubber mixer, identified as EU #3, constructed in 1994, equipped with a baghouse and exhausting to stack 3, capacity: 1,500 pounds per hour.
- (c) Three (3) compression molding rubber presses, identified as EU #4a through EU #4c, constructed between 1973 and 2002, capacity: 20 pounds per hour, each, total 340 pounds per hour, with no control.
- (d) Four (4) warm up mills, identified as EU #6, constructed between 1969 and 1982, capacity: 400 pounds of rubber per hour, total.
- (e) Five (5) extruders, identified as EU #7, constructed between 1979 and 1990, capacity: 400 pounds per hour, total.
- (f) Six (6) cure ovens, identified as EU #9, with unknown construction dates, exhausting through stacks 4 through 8, capacity: 20 pounds per hour, each.
- (g) Eighteen (18) grinders, ten (10) of the grinders were constructed prior to 1972, and eight (8) of the grinders were constructed prior to 1972 at a different source and brought to this location in 2004, identified as EU #5, each equipped with a cyclone, capacity: 50 pounds per hour, each.

- (h) Five (5) autoclaves, three (3) of the autoclaves were constructed between 1955 and 1970 and two (2) of the autoclaves were constructed in 2004/2005, identified as EU #8, capacity: 450 pounds per hour, each.

Insignificant Activities

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million BTU per hour, including one (1) boiler, identified as EU #2, constructed in 2004/2005, exhausting to stack 2, heat input capacity: 8.0 million British thermal units per hour. [326 IAC 6-2-4]
- (b) One (1) painting booth and two (2) stripping booths, identified as EU#10, the paint booth was constructed in 1995 and the stripping booths in 2000, the paint booth exhausting through stack 3, capacity: 60 rubber tubes per hour.
- (c) Thirty-one (31) cutting lathes with negligible emissions, capacity: 260 pounds per hour.
- (d) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]
- (e) Mold release agents using low volatile products (vapor pressure less than or equal to 2 kPa measured at 38 degrees C).
- (f) Enclosed bead cleaner, with no exhaust.

Emission Units and Pollution Control Equipment Constructed and/or Operated without a Permit

The source does not have any emission units that were constructed and/or is operating without a permit during this review.

Emission Units and Pollution Control Equipment Removed From the Source

The source removed the following during this review: one rubber mixer (one of two mixers EU#3) , fourteen compression molding rubber presses (EU#4d through EU#4q), two warm up mills (part of EU#6), one extruder (part of EU#7), three cure ovens (part of EU#9), and in the list of insignificant activities, one booth that was used for painting and stripping (EU#10) is now for painting and two booths were added for stripping (EU#11), and there are thirty-one instead of thirteen cutting lathes.

Existing Approvals

Since the issuance of the New Source FESOP 039-19808-00027 on December 8, 2005, the source has not constructed or has not been issued any other approvals.

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

Enforcement Issue

There are no enforcement actions pending during this review.

Emission Calculations

See Appendix A of this document for detailed emission calculations.

County Attainment Status

The source is located in Elkhart 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 18, 2000, for the 1-hour ozone standard for the South Bend-Elkhart area, including Elkhart County, and is a maintenance area for the 1-hour National Ambient Air Quality Standards (NAAQS) for purposes of 40 CFR 51, Subpart X*. The 1-hour standard was revoked effective June 15, 2005. Unclassifiable or attainment effective April 5, 2005, for PM2.5.	

- (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. Elkhart 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) **PM2.5**
 Elkhart County has been classified as attainment for PM2.5. On May 8, 2008 U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM2.5 emissions, and the effective date of these rules was July 15, 2008. Indiana has three years from the publication of these rules to revise its PSD rules, 326 IAC 2-2, to include those requirements. The May 8, 2008 rule revisions require IDEM to regulate PM10 emissions as a surrogate for PM2.5 emissions until 326 IAC 2-2 is revised.
- (c) **Other Criteria Pollutants**
 Elkhart 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.
- (d) **Fugitive Emissions**
 This type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, however, there is not an applicable New Source Performance Standard that was in effect on August 7, 1980, therefore fugitive emissions are not counted toward the determination of PSD and Emission Offset applicability.

Unrestricted Potential Emissions

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

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is equal to or greater than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is equal to or greater than twenty-five (25) tons per year. The source is subject to the provisions of 326 IAC 2-7. However, the source has agreed to limit their HAP emissions to less than Title V levels, therefore the source will be issued a FESOP renewal.

- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of all other criteria pollutants are less than 100 tons per year.

Potential to Emit After Issuance

The source has opted to remain a FESOP source. The table below summarizes the potential to emit, reflecting all limits of the emission units. Any control equipment is considered enforceable only after issuance of this FESOP and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Process/ Emission Unit	Potential To Emit (tons/year)							HAPs
	PM	* PM ₁₀	PM _{2.5}	SO ₂	VOC	CO	NO _x	
Boiler (EU #1)	0.139	0.558	0.558	0.044	0.404	6.16	7.34	0.015 other HAP 0.195 Hexane; 0.205 total
Insignificant Activity - natural gas combustion boiler (EU#2)	0.07	0.27	0.27	0.021	0.19	2.94	3.50	
One (1) rubber mixer (EU #3)	23.6	21.9	21.9	0.00	4.27	0.00	0.00	0.068 Carbon Disulfide; 0.169 Hexane; 0.92 total
Three (3) compression molding rubber presses (EU #4a - EU #4c)	0.00	0.00	0.00	0.00	1.62	0.00	0.00	0.05 Carbon Disulfide; 0.00 Hexane; 0.290 total
Eighteen (18) grinders (EU #5)	7.30	5.72	5.72	0.00	0.00	0.00	0.00	-
Four (4) warm up mills (EU #6)	0.00	0.00	0.00	0.00	1.13	0.00	0.00	0.032 Carbon Disulfide; 0.102 Hexane; 0.127 total
Five (5) extruders (EU #7)	negl.	negl.	negl.	0.00	0.28	0.00	0.00	0.042 Carbon Disulfide; 0.106 Hexane; 0.131 total
Five (5) autoclaves (EU #8)	0.00	0.00	0.00	0.00	29.2	0.00	0.00	6.95 Carbon Disulfide; 6.11 Hexane; 18.6 total
Six (6) cure ovens (EU #9)	0.00	0.00	0.00	0.00	13.09	0.00	0.00	1.08 Carbon Disulfide; 1.95 Hexane; 2.42 total
Painting and Stripping Booths (EU #10)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total PTE of Entire Source	31.10	28.44	28.44	0.07	50.19	9.10	10.84	8.77 (Hexane) 7.33 (Carbon Disulfide) 24.99 (Total)
Title V Major Source Thresholds	NA	100	100	100	100	100	100	25
PSD Major Source Thresholds	250	250	250	250	250	250	250	NA

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".

The values in the table represent the unrestricted potential emissions, except for the values for autoclave curing and mixing. The single and combined HAPs emissions from autoclave curing are limited pursuant to 326 IAC 2-8, FESOP, and the PM emissions from the mixers are limited by 326 IAC 6-3-2. As a result of the HAPs limits for autoclave curing, the VOC from the autoclaves is also limited as shown in this table.

- (a) This existing stationary source is not major for PSD because the emissions of each criteria pollutant are less than two hundred fifty (<250) tons per year, and it is not one of the twenty-eight (28) listed source categories.
- (b) This existing stationary source is not major for Emission Offset because the emissions of the nonattainment pollutant, VOC and NOx, are less than one hundred (<100) tons per year.
- (c) Fugitive Emissions
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, fugitive emissions are not counted toward the determination of PSD and Emission Offset applicability.

Federal Rule Applicability

New Source Performance Standards (NSPS)

- (a) There are no New Source Performance Standards (NSPS)(40 CFR Part 60) included in the permit.
- (b) The requirements of the Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971, 326 IAC 12, (40 CFR 60.40, Subpart D), are not included in the permit because the one (1) boiler, identified as EU #1, was constructed prior to August 17, 1971, and the capacity of the one (1) boiler, identified as EU #2, which was constructed after August 17, 1971, is less than 250 million British thermal units per hour.
- (c) The requirements of the Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978, 326 IAC 12, (40 CFR 60.40a, Subpart Da), are not included in the permit because the one (1) boiler, identified as EU #1, was constructed prior to September 18, 1978, and the capacity of the one (1) boiler, identified as EU #2, which was constructed after September 18, 1978, is less than 250 million British thermal units per hour.
- (d) The requirements of the Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units, 326 IAC 12, (40 CFR 60.40b, Subpart Db), are not included in the permit because the one (1) boiler, identified as EU #1, was constructed prior to June 19, 1984, and the capacity of the one (1) boiler, identified as EU #2, which was constructed after June 19, 1984, is less than 100 million British thermal units per hour.
- (e) The requirements of the Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, 326 IAC 12, (40 CFR 60.40c, Subpart Dc), are not included in the permit because the one (1) boiler, identified as EU #1, was constructed prior to June 9, 1989, and the capacity of the one (1) boiler, identified as EU #2, which was constructed after June 9, 1989, is less than 10 million British thermal units per hour.
- (f) The requirements of the Standards of Performance for the Rubber Tire Manufacturing Industry, 326 IAC 12, (40 CFR 60.540, Subpart BBB), are not included in the permit because this source does not manufacture tires.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (g) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP)(326 IAC 14, 20 and 40 CFR Part 61, 63) included in the permit for this source.

- (h) The requirements of the National Emission Standards for Hazardous Air Pollutant Emissions: Group I Polymers and Resins, 40 CFR 63.480, Subpart U, are not included in the permit for this source. This source manufactures rubber products using elastomers. It does not produce the elastomers.
- (i) Neither Boiler (EU #1) or Boiler (EU #2) would have been subject to the requirements of the National Emission Standards for Hazardous Air Pollutant for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR 63, Subpart DDDDD. On June 8, 2007, The United States Court of Appeals for the District of Columbia Circuit (in NRDC v. EPA, no. 04-1386) vacated in its entirety the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR 63, Subpart DDDDD. Additionally, since the state rule at 326 IAC 20-95 incorporated the requirements of the NESHAP 40 CFR 63, Subpart DDDDD by reference, the requirements of 326 IAC 20-95 are no longer effective.

Boiler (EU #1) was constructed in 1950 and Boiler (EU #2) was constructed in 2004 and began operation in 2005. Due to the limits in this permit, this source will not be a major source of HAPs. Therefore, this source was not an affected source.
- (j) The requirements of the National Emissions Standards for Hazardous Air Pollutants: Rubber Tire Manufacturing, 40 CFR 63.5980, Subpart XXXX, are not included in the permit for this source. This source does not manufacture tires.

Compliance Assurance Monitoring (CAM)

- (k) 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 - Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

- (a) This source was constructed prior to August 7, 1977. Therefore, the requirements of 326 IAC 2-2, PSD, were not applicable.
- (b) The unrestricted potential emissions of each attainment criteria pollutant from each modification were less than two hundred-fifty (250) tons per year, and the total source-wide unrestricted potential emissions of each attainment criteria pollutant remained less than 250 tons per year. Therefore, the potential to emit of each attainment criteria pollutant is still less than 250 tons per year, and this source, which is not one of the twenty-eight (28) listed source categories, is not a major source pursuant to 326 IAC 2-2, PSD.

326 IAC 2-3 (Emission Offset)

Elkhart County is classified as attainment or unclassifiable in Indiana for all criteria pollutants. Therefore, the requirements of 326 IAC 2-3 (Emission Offset) do not apply to this source, and the requirements are not included in the permit.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))

- (a) Construction of the boiler, identified as EU #1, four (4) warm up mills, identified as EU #6, five (5) extruders, identified as EU #7, ten (10) existing grinders, identified as part of EU #5, and three (3) existing autoclaves, identified as part of EU #8, all commenced prior to July 27, 1997. Therefore, the requirements of 326 IAC 2-4.1-1 are not applicable.
- (b) Some of the three (3) compression molding presses, one (1) rubber mixer, identified as EU #3, possibly some of the six (6) cure ovens, the eight (8) grinders, and two (2)

autoclaves, were all constructed after July 27, 1997. Pursuant to 326 IAC 2-8, FESOP, the potential to emit each individual HAP is limited to less than ten (10) tons per year and the potential to emit total HAPs is limited to less than twenty-five (25) tons per year. Therefore, the requirements of 326 IAC 2-4.1 are not applicable.

326 IAC 2-8 (FESOP)

The unrestricted potential emissions of Carbon Disulfide and Hexane, both HAPs, are greater than ten (10) tons per year, each, and the unrestricted potential emissions of total HAPs are greater than twenty-five (25) tons per year. The applicant has agreed to limit individual HAP emissions to less than ten (10) tons per year and total HAP emissions to less than twenty-five (25) tons per year. Therefore, the requirements of 326 IAC 2-7, Part 70, are not applicable. The specific limitations are as follows:

- (a) The input of Compound #17 to the five (5) autoclaves, collectively identified as EU #8, shall not exceed 3,090 tons per twelve (12) consecutive month period, total, with compliance determined at the end of each month at a rate of 0.00191 lb/lb of rubber. This will limit the Hexane emissions from the five (5) autoclaves to 5.9 tons per year and less than ten (10) tons per year from the entire source (entire source is 8.97 tons/yr of Hexane emissions).

Note: Compound #17 is limited because it is the compound that emits the most Hexane emissions.

- (b) The input of Compound #8 to the five (5) autoclaves, collectively identified as EU #8, shall not exceed 1,065 tons per twelve (12) consecutive month period, total, with compliance determined at the end of each month at a rate of 0.00593 lb/lb of rubber. This will limit the Carbon Disulfide emissions from the five (5) autoclaves to 6.32 tons per year and less than ten (10) tons per year from the entire source (entire source is 9.20 tons/yr of Carbon Disulfide emissions).

Note: Compound #8 is limited because it is the compound that emits the most Carbon Disulfide emissions. In limiting Compound #8, Compounds #11, 12 and 18 are also limited and be specified in terms of equivalency. See Appendix A for the calculation of the equivalency.

For the purpose of this limit, using 1 ton of Compound #11 shall be considered equal to using 0.045 tons of Compound #8;

Using 1 ton of Compound #12 shall be considered equal to using 0.129 tons of Compound #8;

Using 1 ton of Compound #18 shall be considered equal to using 0.198 tons of Compound #8.

Compliance with this limits, combine with the potential to emit HAPs from all other emission units at this source, shall limit the source-wide total potential to emit of any single HAP to less than ten (10) tons per 12 consecutive month period, and total HAPs to less than twenty-five (25) tons per 12 consecutive month period and shall render 326 IAC 2-7 (Part 70 Permits), 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP), not applicable.

326 IAC 2-6 (Emission Reporting)

This source is located in Elkhart County and the potential to emit of each criteria pollutant is less than one hundred (100) tons per year. Therefore, 326 IAC 2-6 does not apply.

326 IAC 5-1 (Opacity Limitations)

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

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

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

This source is located in Elkhart County and was in operation prior to December 13, 1985. Therefore, the requirements of 326 IAC 6-5 are not applicable.

326 IAC 8-6 (Organic Solvent Emission Limitations)

Operation of this source commenced prior to October 7, 1974. Therefore, the requirements of 326 IAC 8-6 are not applicable.

State Rule Applicability – Individual Facilities

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

- (a) The one (1) boiler, identified as EU #1, was constructed in 1950 in Elkhart County, and was in operation prior to September 21, 1983. Therefore, the boiler is subject to the requirements of 326 IAC 6-2-3. Pursuant to 326 IAC 6-2-3(d), the particulate from the one (1) boiler shall not exceed 0.8 pound per million British thermal unit heat input. The potential particulate emissions from the boiler are as follows:

$$0.139 \text{ tons/yr} \times 2,000 \text{ lbs/ton} / 8,760 \text{ hrs/yr} = 0.032 \text{ lbs/hr}$$
$$0.032 \text{ lbs/hr} / 16.75 \text{ mmBtu/hr} = 0.002 \text{ lbs/ton}$$

Therefore, the one (1) boiler, identified as EU #1 will comply with this rule.

- (b) The one (1) boiler, identified as EU #2, was constructed after September 21, 1983. Therefore, the boiler is subject to the requirements of 326 IAC 6-2-4. Pursuant to 326 IAC 6-2-4, the particulate from the boiler shall be limited by the following equation:

$$Pt = 1.09 / Q^{0.26}$$

where:

Pt = Pounds of particulate matter emitted per million British thermal units (lb/mmBtu) heat input

Q = Total source maximum operating capacity rating in million Btu per hour (mmBtu/hr) heat input. The maximum operating capacity rating is defined as the maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's permit application, except when some lower capacity is contained in the facility's operation permit; in which case, the capacity specified in the operation permit shall be used. This includes the 16.75 mmBtu/hr from the existing boiler.

$$Pt = 1.09 / (16.74 + 8.00)^{0.26} = 0.47 \text{ lb/mmBtu}$$

The potential particulate emissions from the boiler are as follows:

$$0.067 \text{ tons/yr} \times 2,000 \text{ lbs/ton} / 8,760 \text{ hrs/yr} = 0.015 \text{ lbs/hr}$$
$$0.015 \text{ lbs/hr} / 7.74 \text{ mmBtu/hr} = 0.002 \text{ lbs/ton}$$

Therefore, the one (1) boiler, identified as EU #2 will comply with this rule.

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

- (a) The potential particulate emissions from each grinder, each extruder, each autoclave, each curing oven, each warm up mill, each compression molder, each boiler and the coating operations are less than 0.551 pounds per hour. Therefore, pursuant to 326 IAC 6-3-1(b)(14), those processes are exempt from the requirements of 326 IAC 6-3.
- (b) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission from the mixer shall not exceed 3.38 pound per hour when operating at a process weight rate of 1,500 pounds per hour.

The potential to emit after control by the baghouse is 0.161 pounds per hour. Therefore, the mixers will comply with this rule. The baghouse for particulate control must be in operation and control emissions from the mixers at all times when the mixers are in operation in order to comply with this rule. This limitation is based upon the following:

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

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

326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)

The potential SO₂ emissions from this source are less than ten (10) pounds per hour and twenty-five (25) tons per year. Therefore, this source is not subject to the requirements of 326 IAC 7-1.1.

326 IAC 8-1-6 (New facilities; General reduction requirements)

- (a) The three (3) existing autoclaves were constructed prior to January 1, 1980. Therefore, the requirements of 326 IAC 8-1-6 are not applicable.
- (b) The two (2) autoclaves were constructed after January 1, 1980. The unrestricted potential VOC emissions from the two (2) autoclaves are 5.54 pounds per hour, equivalent to 24.3 tons per year. Therefore, the potential VOC emissions from each autoclave is less than 25 tons per year, and the requirements of 326 IAC 8-1-6 are not applicable.
- (c) The unrestricted potential VOC emissions from the rubber mixer, constructed after January 1, 1980, are less than 25 tons per year. Therefore, the requirements of 326 IAC 8-1-6 are not applicable.
- (d) The unrestricted potential VOC emissions from the compression molding presses, some of which were constructed after January 1, 1980, are less than 25 tons per year, total. Therefore, the potential VOC emissions from each press are less than 25 tons per year, and the requirements of 326 IAC 8-1-6 are not applicable.
- (e) The unrestricted potential VOC emissions from the warm up mills, some of which were constructed after January 1, 1980, are less than 25 tons per year, total. Therefore, the

potential VOC emissions from each mill are less than 25 tons per year, and the requirements of 326 IAC 8-1-6 are not applicable.

- (f) The unrestricted potential VOC emissions from the extruders, some of which were constructed after January 1, 1980, are less than 25 tons per year, total. Therefore, the potential VOC emissions from each extruder are less than 25 tons per year, and the requirements of 326 IAC 8-1-6 are not applicable.
- (g) The unrestricted potential VOC emissions from the cure ovens, some of which may have been constructed after January 1, 1980, are less than 25 tons per year, total. Therefore, the potential VOC emissions from each oven are less than 25 tons per year, and the requirements of 326 IAC 8-1-6 are not applicable.
- (h) The unrestricted potential VOC emissions from the coating operations are less than 25 tons per year. Therefore, the requirements of 326 IAC 8-1-6 are not applicable.

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a continuous demonstration. When this occurs, IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, Compliance Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

If the Compliance Determination Requirements are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The compliance monitoring requirements applicable to this source are as follows:

Emission Unit/Control	Operating Parameters	Frequency
EU# 3 Mixer Baghouse	Visible Emissions Notations	Once per day
	Pressure Drop	Once per day

The baghouse for the mixer must operate properly to ensure compliance with 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes) and 326 IAC 2-8 (FESOP).

Testing Requirements

Testing to determine the emission factors for the rubber grinder and rubber mixer processes were conducted July 22 and July 28, 2004, and were validated by IDEM, OAQ. This test was a one time test and no additional testing is being required at this time in the renewal. The HAPs are being limited by production limits.

Recommendation

The staff recommends to the Commissioner that the FESOP Renewal be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An application for the purposes of this review was received on March 11, 2010 and additional information received on October 27 and November 29, 2010.

Conclusion

The operation of this stationary rubber products (not tires) manufacturing source shall be subject to the conditions of the attached FESOP Renewal No. 039-29059-00027.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Janet Mobley 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) 234-5373 or toll free at 1-800-451-6027 extension 4-5373.
- (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
EMMISSIONS SUMMARY**

Company Name: Parker-Hannifin Corporation
Address City IN Zip: 1525 South 10th Street, Goshen, Indiana 46527
Permit Number: 039-29059-00027
Reviewer: Janet Mobley

Unlimited Potential to Emit (tons/year)									
	PM	PM10	PM2.5	SO ₂	NO _x	VOC	CO	TOTAL HAPs	SINGLE HAP
Boiler (EU #1)	0.13	0.56	0.56	0.04	7.34	0.40	6.16	0.21	0.015 other HAPs
Natural Gas and Boiler, EU #2	0.07	0.27	0.27	0.02	3.50	0.19	2.94		0.195 (Hexane)
One (1) rubber mixer, EU#3	70.00	11.00	11.00	0.00	0.00	4.27	0.00	1.84	0.596 (Carbon Disulfide) 1.48 (Hexane)
Three (3) compression molding rubber presses, EU#4a - EU#4c	0.00	0.00	0.00	0.00	0.00	1.62	0.00	1.630	1.29 (Carbon Disulfide) 0.46 (Hexane)
Eighteen (18) grinders (EU #5)	7.30	5.72	5.72	0.00	0.00	0.00	0.00	0.000	
Four (4) warm up mills, EU #6	0.00	0.00	0.00	0.00	0.00	1.13		0.13	0.032 (Carbon Disulfide) 0.102 (Hexane)
Five (5) extruders, EU #7	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.13	0.042 (Carbon Disulfide) 0.106 (Hexane)
Five (5) autoclaves, EU #8	0.00	0.00	0.00	0.00	0.00	58.39	0.00	77.08	58.25 (Carbon Disulfide) 18.83 (Hexane)
Six (6) cure ovens, EU #9	0.00	0.00	0.00	0.00	0.00	13.09	0.00	3.070	0.276 (Carbon Disulfide) 3.070 (Hexane)
Painting and Stripping Booths, EU #10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
TOTAL PTE	77.50	17.54	17.55	0.07	10.84	79.38	9.10	84.08	61.33 (Carbon Disulfide) 21.87 (Hexane)

Controlled Potential to Emit (PTE) After Issuance (tons/year)									
Process	PM	PM10	PM2.5	SO ₂	NO _x	VOC	CO	TOTAL HAPs	SINGLE HAP
Boiler (EU #1)	0.13	0.56	0.56	0.04	7.34	0.40	6.16	0.21	0.015 other HAPs
Natural Gas and Boiler, EU #2	0.07	0.27	0.27	0.02	3.50	0.19	2.94		1.95 (Hexane)
One (1) rubber mixer, EU#3	0.16	0.11	0.11	0.00	0.00	4.27	0.00	0.92	0.068 (Carbon Disulfide) 0.168 (Hexane)
Three (3) compression molding rubber presses, EU#4a - EU#4c	0.00	0.00	0.00	0.00	0.00	1.62	0.00	0.290	0.05 (Carbon Disulfide) 0.00 (Hexane)
Eighteen (18) grinders (EU #5)	0.73	0.57	0.57	0.00	0.00	0.00	0.00	0.00	
Four (4) warm up mills, EU #6	0.00	0.00	0.00	0.00	0.00	1.13	0.00	0.13	0.032 (Carbon Disulfide) 0.102 (Hexane)
Five (5) extruders, EU #7	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.13	0.042 (Carbon Disulfide) 0.106 (Hexane)
Five (5) autoclaves, EU #8	0.00	0.00	0.00	0.00	0.00	29.20	0.00	18.60	6.95 (Carbon Disulfide) 6.11 (Hexane)
Six (6) cure ovens, EU #9	0.00	0.00	0.00	0.00	0.00	13.09		1.82	0.184 (Carbon Disulfide) 0.334 (Hexane)
Painting and Stripping Booths, EU #10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
Total	1.09	1.51	1.51	0.07	10.84	50.19	9.10	24.90	<10 (Hexane) <10 (Carbon Disulfide)

PM/PM10 PTE After Control

LIMITED Potential to Emit (PTE) After Issuance (tons/year)									
Process	PM	PM10	PM2.5	SO ₂	NO _x	VOC	CO	TOTAL HAPs	SINGLE HAP
Boiler (EU #1)	0.13	0.56	0.56	0.04	7.34	0.40	6.16	0.21	0.015 other HAPs
Natural Gas and Boiler, EU #2	0.07	0.27	0.27	0.02	3.50	0.19	2.94		1.95 (Hexane)
One (1) rubber mixer, EU#3	23.60	21.90	21.90	0.00	0.00	4.27	0.00	0.92	0.068 (Carbon Disulfide) 0.169 (Hexane)
Three (3) compression molding rubber presses, EU#4a - EU#4c	0.00	0.00	0.00	0.00	0.00	1.62	0.00	0.290	0.05 (Carbon Disulfide) 0.00 (Hexane)
Eighteen (18) grinders (EU #5)	7.30	5.72	5.72	0.00	0.00	0.00	0.00	0.00	
Four (4) warm up mills, EU #6	0.00	0.00	0.00	0.00	0.00	1.13	0.00	0.13	0.032 (Carbon Disulfide) 0.102 (Hexane)
Five (5) extruders, EU #7	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.13	0.042 (Carbon Disulfide) 0.106 (Hexane)
Five (5) autoclaves, EU #8	0.00	0.00	0.00	0.00	0.00	29.20	0.00	18.60	6.95 (Carbon Disulfide) 6.11 (Hexane)
Six (6) cure ovens, EU #9	0.00	0.00	0.00	0.00	0.00	13.09	0.00	1.82	0.184 (Carbon Disulfide) 0.334 (Hexane)
Painting and Stripping Booths, EU #10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
Total	31.10	28.44	28.44	0.07	10.84	50.19	9.10	24.90	8.77 (Hexane) 7.33 (Carbon Disulfide)

**Appendix A: Emissions Calculations
Entire Source Totals**

**Company Name: Parker-Hannifin Corporation
Address City IN Zip: 1525 South 10th Street, Goshen, Indiana 46527
Permit Number: 039-29059-00027
Reviewer: Janet Mobley**

	Uncontrolled Potential to Emit (lbs/hr)	Uncontrolled Potential to Emit (tons/yr)	Controlled Potential to Emit (tons/yr)	Limited Potential to Emit (tons/yr)
Total VOC*	22.4	97.9	68.7	68.7
Total Organic HAPs	15.0	65.9	24.9	24.9
Total Metal HAPs	0.001	0.003	0.0	0.003
Total HAPs	15.0	84.08	24.9	24.9
Total PM	33.8	77.50	2.34	148
Total PM10	6.50	17.5	1.62	28.5
Total SO2	0.015	0.065	0.065	0.065
Total CO	2.08	9.11	9.11	9.11
Total Nox	2.48	10.8	10.84	10.8
Acetophenone	9.85E-01	4.31	4.31	4.31
Acrylonitrile	5.44E-01	2.38	2.38	2.38
Aniline	3.68E-01	1.61	1.58	1.58
Carbon Disulfide	1.40E+01	61.5	9.99	9.99
Carbonyl Sulfide	7.01E-01	3.07	3.07	3.07
Hexane	5.18E+00	22.7	9.99	9.99
Methylene Chloride	7.57E-01	3.32	2.04	2.04
Propylene Oxide	3.29E-01	1.44	1.44	1.44
Toluene	1.52E-01	0.664	0.664	0.664
Xylenes	1.86E-01	0.815	0.815	0.815

Emission Factors for all Rubber Manufacturing in this Appendix are from Tables 4.12-6, 4.12-8 and 4.12-4 of AP-42 draft Section 4.12

*Total VOC is the sum of the worst case total VOC or total Speciated Organics from each process. Therefore, it is the most conservative (highest) calculation of VOC emissions possible from this source.

The usage of Compound #17 by the autoclave operations is limited to 3,090 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. The usage of Compound #8 by the autoclave operations is limited to 1,065 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. Each ton of Compound #11 shall be considered equal to using 0.045 ton of Compound #8, each ton of Compound #12 shall be considered equal to using 0.129 ton of Compound #8 and each ton of Compound #18 shall be considered equal to using 0.198 ton of Compound #8. (see page 11)

The limited Potential to Emit on this page is the limited potential to emit after the autoclave limitations. It does not take into account any limits due to rules such as 326 IAC 6-3-2. The limited Potential to Emit of the source is included in the table in the TSD.

**Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Units EU#1 and EU#2**

**Company Name: Parker-Hannifin Corporation
Address City IN Zip: 1525 South 10th Street, Goshen, Indiana 46527
Permit Number: 039-29059-00027
Reviewer: Janet Mobley**

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.90	7.60	0.600	100 **see below	5.50	84.0

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Equipment	Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr	Potential Emission in tons/yr					
			PM*	PM10*	SO2	NOx	VOC	CO
EU #1	16.75	146.73	0.139	0.558	0.044	7.34	0.404	6.16
EU #2	8.00	70.08	0.067	0.266	0.021	3.50	0.193	2.94
Total	24.75	217	0.206	0.824	0.065	10.8	0.596	9.11

HAPs - Organics

Emission Factor in lb/MMcf	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
	2.10E-03	1.20E-03	7.50E-02	1.80E+00	3.40E-03
Potential Emission in tons/yr	2.28E-04	1.30E-04	8.13E-03	1.95E-01	3.69E-04

HAPs - Metals

Emission Factor in lb/MMcf	Lead	Cadmium	Chromium	Manganese	Nickel	Total HAPs
	5.00E-04	1.10E-03	1.40E-03	3.80E-04	2.10E-03	
Potential Emission in tons/yr	5.42E-05	1.19E-04	1.52E-04	4.12E-05	2.28E-04	0.205

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)

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

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

Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Appendix A: Emissions Calculations

Particulate Emissions
Mixing and Grinding
EU #3 AND EU #5

Company Name: Parker-Hannifin Corporation
Address City IN Zip: 1525 South 10th Street, Goshen, Indiana 46527
Permit Number: 039-29059-00027
Reviewer: Janet Mobley

Emission Unit	Unit ID	Capacity (lbs/hr)	Emission Factor * (lb PM10/lb rubber)	PM10 Uncontrolled Emission Rate per Unit (lbs/hr)	PM10 Uncontrolled Emission Rate per Unit (tons/yr)	Control Efficiency	PM10 Controlled Emission Rate per Unit (lbs/hr)	PM10 Controlled Emission Rate per Unit (tons/yr)	Number of Units	Total PM10 Uncontrolled Emission Rate (lbs/hr)	Total PM10 Uncontrolled Emission Rate (tons/yr)	Total PM10 Controlled Emission Rate (lbs/hr)	Total PM10 Controlled Emission Rate (tons/yr)
Grinding	EU #5	50	0.001450	0.073	0.318	90.0%	0.007	0.032	18	1.31	5.72	0.131	0.572
Mixing	EU #3	1500	0.00167	2.51	11.0	99.0%	0.025	0.110	1	2.51	11.0	0.025	0.110
Totals:				2.58	11.3		0.032	0.141		3.81	16.7	0.156	0.681

Methodology for PM10 from Mixing and Grinding
 PM10 Uncontrolled Emission Rate per unit (lbs/hr) = Capacity (lbs/hr) x Emission Factor (lb/lb rubber)
 PM10 Uncontrolled Emission Rate per Unit (tons/yr) = PM10 Uncontrolled Emission Rate per unit (lbs/hr) * 8760 hrs/yr / 2000 lbs/ton
 PM10 Controlled Emission Rate per Unit (lbs/hr) = PM10 Uncontrolled Emissions per unit(lbs/hr) x (1 - Control Efficiency)
 PM10 Controlled Emission Rate per Unit (tons/yr) = PM10 Uncontrolled Emission Rate (tons/yr) x (1 - Control Efficiency)
 Total PM10 Uncontrolled Emission Rate (lbs/hr) = PM10 Uncontrolled Emission Rate per unit (lbs/hr) x Number of Units
 Total PM10 Uncontrolled Emission Rate (tons/yr) = PM10 Uncontrolled Emission Rate per unit (tons/yr) x number of units
 Total PM10 Controlled Emission Rate (lbs/hr) = PM10 Controlled Emission Rate per unit (lbs/hr) x number of units
 Total PM10 Controlled Emission Rate (tons/yr) = PM10 Controlled Emissions Rate per unit (tons/yr) x number of units
 Emission factors from tests conducted July 22 and 28, 2004 and validated by IDEM, OAQ, 5/2/05
 *For Grinding, tests could not be performed prior to the cyclone. Therefore, the PM10 emission factor determined by the test has been back calculated to determine the uncontrolled PM10 emission factor assuming a control efficiency of 90% from the cyclone.
 Testing prior to the cyclone was not possible due to large particles plugging sample train.
 Grinding emission factor based on the test = 0.000645 lb/lb rubber after cyclone but before baghouse
 Grinding Uncontrolled emission factor = 0.000645 lb/lb rubber / (1-0.90) = 0.00145

Emission Unit	Unit ID	Flow Rate (dscf)	Outlet Grain Loading (gr/dscf)	PM Uncontrolled Emission Rate per Unit (lbs/hr)	PM Uncontrolled Emission Rate per Unit (tons/yr)	Control Efficiency	PM Controlled Emission Rate per Unit (lbs/hr)	PM Controlled Emission Rate per Unit (tons/yr)	Number of Units	Total PM Uncontrolled Emission Rate (lbs/hr)	Total PM Uncontrolled Emission Rate (tons/yr)	Total PM Controlled Emission Rate (lbs/hr)	Total PM Controlled Emission Rate (tons/yr)
Grinding	EU #5	701	0.0154	0.093	0.405	90.0%	0.009	0.041	18	1.67	7.30	0.167	0.730
Totals:				0.093	0.405		0.009	0.041		1.67	7.30	0.167	0.730

Methodology for PM from Grinding
 PM Uncontrolled Emission Rate per unit (lbs/hr) = gr/dscfm x dscfm x (60 minutes/hr / 7000 gr/lb)
 PM Uncontrolled Emission Rate per Unit (tons/yr) = Uncontrolled Emission Rate (lbs/hr) * 8760 hrs/yr / 2000 lbs/ton
 PM Controlled Emission Rate per Unit (lbs/hr) = Uncontrolled Emissions (lbs/hr) x (1 - Control Efficiency)
 PM Controlled Emission Rate per Unit (tons/yr) = Uncontrolled Emissions Rate (tons/yr) x (1 - Control Efficiency)
 Total PM Uncontrolled Emission Rate (lbs/hr) = Uncontrolled Emission Rate (lbs/hr) x Number of Units
 Total PM Uncontrolled Emission Rate (tons/yr) = PM uncontrolled Emissions Rate per unit (tons/yr) x number of units
 Total PM Controlled Emission Rate (lbs/hr) = PM Controlled Emission Rate per unit (lbs/hr) x number of units
 Total PM Controlled Emission Rate (tons/yr) = PM Controlled Emissions Rate per unit (tons/yr) x number of units

Emission Unit	Unit ID	Capacity (lbs/hr)	Emission Factor (lb PM/lb rubber) After Cyclone	PM Uncontrolled Emission Rate per Unit (lbs/hr)	PM Uncontrolled Emission Rate per Unit (tons/yr)	Control Efficiency	PM Controlled Emission Rate per Unit (lbs/hr)	PM Controlled Emission Rate per Unit (tons/yr)	Number of Units	Total PM Uncontrolled Emission Rate (lbs/hr)	Total PM Uncontrolled Emission Rate (tons/yr)	Total PM Controlled Emission Rate (lbs/hr)	Total PM Controlled Emission Rate (tons/yr)
Mixing	EU #3	1500	0.0107	16.1	70	99.0%	0.161	0.70	1	16.1	70	0.161	0.70
Totals:				16.1	70		0.161	0.70		16.1	70	0.161	0.70

Methodology for PM from Mixing
 PM Uncontrolled Emission Rate per unit (lbs/hr) = Capacity (lbs/hr) x Emission Factor (lb/lb rubber)
 PM Uncontrolled Emission Rate per Unit (tons/yr) = PM Uncontrolled Emission Rate per unit (lbs/hr) * 8760 hrs/yr / 2000 lbs/ton
 PM Controlled Emission Rate per Unit (lbs/hr) = PM Uncontrolled Emissions per unit(lbs/hr) x (1 - Control Efficiency)
 PM Controlled Emission Rate per Unit (tons/yr) = PM Uncontrolled Emission Rate (tons/yr) x (1 - Control Efficiency)
 Total PM Uncontrolled Emission Rate (lbs/hr) = PM Uncontrolled Emission Rate per unit (lbs/hr) x Number of Units
 Total PM Uncontrolled Emission Rate (tons/yr) = PM Uncontrolled Emission Rate per unit (tons/yr) x number of units
 Total PM Controlled Emission Rate (lbs/hr) = PM Controlled Emission Rate per unit (lbs/hr) x number of units
 Total PM Controlled Emission Rate (tons/yr) = PM Controlled Emissions Rate per unit (tons/yr) x number of units
 Emission factor from tests conducted July 22 and 28, 2004 and validated by IDEM, OAQ, 5/2/05

Appendix A: Emissions Calculations
 Potential VOC and HAPs Emissions
 Mixing EU #3

Company Name: Parker-Hannifin Corporation
 Address City IN Zip: 1525 South 10th Street, Goshen, Indiana 46527
 Permit Number: 039-29059-00027
 Reviewer: Janet Mobley

Pollutant	Worst Case Total (lbs/hr)	Cmpd #20 (lb/lb rubber)	Cmpd #20 (lbs/hr)	Cmpd #17 (lb/lb rubber)	Cmpd #17 (lbs/hr)	Cmpd #11 (lb/lb rubber)	Cmpd #11 (lbs/hr)	Cmpd #12 (lb/lb rubber)	Cmpd #12 (lbs/hr)	Cmpd #8 (lb/lb rubber)	Cmpd #8 (lbs/hr)	Cmpd #9 (lb/lb rubber)	Cmpd #9 (lbs/hr)
	1500		1500		1500		1500		1500		1500		1500
Total VOC	0.975	7.52E-06	1.13E-02	4.44E-04	6.67E-01	3.28E-05	4.92E-02	1.54E-05	2.31E-02	1.47E-05	2.21E-02	2.91E-05	4.37E-02
Total Speciated Organics	0.896	1.38E-05	2.07E-02	2.99E-04	4.48E-01	3.52E-05	5.28E-02	6.69E-05	1.00E-01	7.38E-05	1.11E-01	5.74E-05	8.61E-02
Total Organic HAPs	0.211	6.66E-06	9.99E-03	1.40E-04	2.11E-01	1.14E-05	1.71E-02	5.55E-05	8.33E-02	5.58E-05	8.37E-02	1.52E-05	2.29E-02
Total Metal HAPs	0.0002	1.07E-08	1.61E-05	7.67E-08	1.15E-04	1.82E-09	2.73E-06	2.86E-08	4.30E-05	3.91E-08	5.86E-05	2.65E-09	3.97E-06
Total HAPs	0.421	6.67E-06	1.00E-02	1.40E-04	2.11E-01	1.14E-05	1.71E-02	5.55E-05	8.33E-02	5.58E-05	8.38E-02	1.52E-05	2.29E-02
Acetophenone	4.42E-03	1.61E-07	2.41E-04	1.45E-08	2.18E-05	2.29E-07	3.43E-04	3.45E-07	5.17E-04	1.29E-08	1.94E-05	1.47E-06	2.21E-03
Acrylonitrile	3.52E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-08	1.02E-04	0.00E+00	0.00E+00
Aniline	1.54E-03	7.20E-09	1.08E-05	5.13E-07	7.70E-04	2.39E-08	3.58E-05	0.00E+00	0.00E+00	7.70E-09	1.16E-05	5.13E-09	7.69E-06
Carbon Disulfide	6.78E-02	2.60E-07	3.90E-04	0.00E+00	0.00E+00	8.64E-06	1.30E-02	4.52E-05	6.78E-02	2.81E-05	4.21E-02	6.66E-07	1.00E-03
Carbonyl Sulfide	6.73E-02	1.58E-06	2.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-06	9.20E-03	2.24E-05	3.37E-02	1.15E-06	1.72E-03
Hexane	1.69E-01	4.86E-07	7.29E-04	1.13E-04	1.69E-01	2.84E-07	4.26E-04	4.68E-07	7.02E-04	1.28E-06	1.92E-03	3.21E-06	4.82E-03
Methylene Chloride	4.96E-02	1.03E-06	1.54E-03	1.65E-05	2.48E-02	5.00E-07	7.50E-04	6.51E-07	9.77E-04	4.81E-07	7.21E-04	6.98E-07	1.05E-03
Propylene Oxide	2.09E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Toluene	6.92E-02	4.75E-07	7.13E-04	1.04E-06	1.55E-03	3.92E-07	5.88E-04	5.72E-07	8.59E-04	1.32E-06	1.97E-03	2.26E-06	3.39E-03

Pollutant	Cmpd #14 (lb/lb rubber)	Cmpd #14 (lbs/hr)	Cmpd #22 (lb/lb rubber)	Cmpd #22 (lbs/hr)	Cmpd #18 (lb/lb rubber)	Cmpd #18 (lbs/hr)	Cmpd #5 (lb/lb rubber)	Cmpd #5 (lbs/hr)	Cmpd #16 (lb/lb rubber)	Cmpd #16 (lbs/hr)	Cmpd #23 (lb/lb rubber)	Cmpd #23 (lbs/hr)
		1500		1500		1500		1500		1500		1500
Total VOC	2.30E-04	3.44E-01	1.23E-04	1.84E-01	1.23E-04	1.84E-01	6.50E-04	9.75E-01	8.16E-05	1.22E-01	3.07E-05	4.60E-02
Total Speciated Organics	1.52E-04	2.28E-01	8.38E-05	1.26E-01	8.38E-05	1.26E-01	1.23E-04	1.84E-01	3.04E-05	4.56E-02	3.54E-05	5.31E-02
Total Organic HAPs	4.23E-05	6.35E-02	2.98E-05	4.47E-02	2.98E-05	4.47E-02	4.66E-05	6.99E-02	4.70E-06	7.06E-03	2.97E-05	4.45E-02
Total Metal HAPs	1.28E-08	1.92E-05	1.16E-08	1.73E-05	1.16E-08	1.73E-05	4.04E-08	6.06E-05	1.44E-09	2.16E-06	5.15E-08	7.72E-05
Total HAPs	4.24E-05	6.35E-02	2.98E-05	4.47E-02	2.98E-05	4.47E-02	4.66E-05	6.99E-02	4.71E-06	7.06E-03	2.97E-05	4.46E-02
Acetophenone	1.70E-08	2.55E-05	2.92E-08	4.38E-05	2.92E-08	4.38E-05	5.72E-08	8.58E-05	1.11E-08	1.66E-05	9.02E-09	1.35E-05
Acrylonitrile	1.17E-05	1.76E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-07	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Aniline	0.00E+00	0.00E+00	4.68E-07	7.02E-04	4.68E-07	7.02E-04	1.66E-07	2.49E-04	0.00E+00	0.00E+00	2.23E-07	3.34E-04
Carbon Disulfide	4.26E-06	6.38E-03	9.56E-08	1.43E-04	9.56E-08	1.43E-04	3.54E-05	5.31E-02	4.50E-08	6.75E-05	5.07E-07	7.61E-04
Carbonyl Sulfide	1.13E-05	1.70E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-06	4.32E-03
Hexane	6.78E-07	1.02E-03	7.75E-07	1.16E-03	7.75E-07	1.16E-03	4.03E-07	6.04E-04	1.81E-06	2.72E-03	6.22E-07	9.32E-04
Methylene Chloride	1.68E-06	2.52E-03	1.01E-06	1.52E-03	1.01E-06	1.52E-03	8.68E-07	1.30E-03	5.00E-07	7.50E-04	1.10E-06	1.64E-03
Propylene Oxide	6.97E-06	1.04E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Toluene	1.55E-06	2.33E-03	2.47E-06	3.70E-03	2.47E-06	3.70E-03	6.88E-07	1.03E-03	1.75E-07	2.62E-04	2.31E-05	3.46E-02

Methodology

Emission Factors are from Tables 4.12-6, 4.12.8 and 4.12-4 of AP 42 Draft Section 4.12
 Total VOC Emissions = is the worst case (highest) total VOC or Total Speciated Organics from each process. Maximum capacity of both mixers (Total lbs/hr) x compound EF (lb/lb rubber)
 Potential VOC Emissions = worst case total VOC x 8760 hrs/year / 2000 lbs/ton
 Total HAPs Emissions = these calculations are showing a representative of the nine highest HAPs not all HAPs
 Potential HAP Emissions = worst case of Total Organic and Total Metal HAPs. Maximum capacity (Total lbs/hr) x compound EF (lb/lb rubber)
 Worst case total emissions (lb/hr) = Highest individual pollutant emitted from all the compounds.

**Appendix A: Emissions Calculations
Potential VOC and HAPs Emissions**

**Molding
EU#4A-EU#4C**

**Company Name: Parker-Hannifin Corporation
Address City IN Zip: 1525 South 10th Street, Goshen, Indiana 46527
Permit Number: 039-29059-00027
Reviewer: Janet Mobley**

Pollutant	Worst Case Total Emissions (lbs/hr)	Cmpd #20 (lb/lb rubber)	Cmpd #20 (lbs/hr)	Cmpd #17 (lb/lb rubber)	Cmpd #17 (lbs/hr)	Cmpd #11 (lb/lb rubber)	Cmpd #11 (lbs/hr)	Cmpd #8 (lb/lb rubber)	Cmpd #8 (lbs/hr)
	60		60		60		60		60
Total VOC	0.374	6.13E-04	3.68E-02	6.23E-03	3.74E-01	2.40E-04	1.44E-02	4.49E-04	2.69E-02
Total Speciated Organics	0.17	3.23E-04	1.94E-02	2.78E-03	1.67E-01	7.31E-04	4.39E-02	1.44E-03	8.65E-02
Total HAPs	0.065	7.45E-05	4.47E-03	1.06E-03	6.38E-02	4.35E-04	2.61E-02	1.09E-03	6.54E-02
Total Organic HAPs	0.07	7.45E-05	4.47E-03	9.11E-04	5.46E-02	6.68E-04	4.01E-02	1.09E-03	6.54E-02
Acetophenone	0.00	8.33E-07	5.00E-05	6.49E-07	3.89E-05	0.00E+00	0.00E+00	2.52E-07	1.51E-05
Acrylonitrile	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-06	7.99E-05
Aniline	0.06	0.00E+00	0.00E+00	1.02E-03	6.09E-02	2.46E-07	1.47E-05	1.51E-07	9.04E-06
Carbon Disulfide	0.05	4.25E-06	2.55E-04	6.29E-06	3.78E-04	3.47E-04	2.08E-02	5.48E-04	3.29E-02
Carbonyl Sulfide	0.03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-07	3.96E-05	4.39E-04	2.63E-02
Hexane	0.00	2.63E-05	1.58E-03	5.26E-06	3.16E-04	3.12E-05	1.87E-03	2.50E-05	1.50E-03
Methylene Chloride	0.00	1.71E-06	1.02E-04	1.57E-06	9.44E-05	2.83E-06	1.70E-04	9.40E-06	5.64E-04
Propylene Oxide	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	2.18E-03	0.00E+00	0.00E+00
Toluene	0.00	4.49E-06	2.70E-04	3.27E-06	1.96E-04	2.30E-06	1.38E-04	2.57E-05	1.54E-03

Pollutant	Cmpd #14 (lb/lb rubber)	Cmpd #14 (lbs/hr)	Cmpd #22 (lb/lb rubber)	Cmpd #22 (lbs/hr)	Cmpd #18 (lb/lb rubber)	Cmpd #18 (lbs/hr)	Cmpd #5 (lb/lb rubber)	Cmpd #5 (lbs/hr)	Cmpd #16 (lb/lb rubber)	Cmpd #16 (lbs/hr)
		60		60		60		60		60
Total VOC	5.30E-04	3.18E-02	4.78E-04	2.87E-02	1.98E-03	1.19E-01	5.87E-04	3.52E-02	8.08E-04	4.85E-02
Total Speciated Organics	1.33E-03	7.98E-02	2.95E-04	1.77E-02	2.40E-03	1.44E-01	2.92E-04	1.75E-02	3.49E-04	2.09E-02
Total HAPs	1.03E-03	6.18E-02	2.06E-04	1.24E-02	9.11E-04	5.46E-02	8.36E-05	5.01E-03	6.37E-05	3.82E-03
Total Organic HAPs	1.09E-03	6.52E-02	2.06E-04	1.24E-02	3.47E-04	2.08E-02	8.36E-05	5.01E-03	1.06E-03	6.38E-02
Acetophenone	2.16E-06	1.29E-04	4.01E-06	2.40E-04	1.12E-06	6.71E-05	0.00E+00	0.00E+00	6.44E-07	3.86E-05
Acrylonitrile	3.02E-05	1.81E-03	0.00E+00	0.00E+00	1.56E-05	9.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Aniline	0.00E+00	0.00E+00	4.25E-06	2.55E-04	3.25E-06	1.95E-04	2.01E-06	1.21E-04	0.00E+00	0.00E+00
Carbon Disulfide	8.67E-04	5.20E-02	1.63E-04	9.80E-03	6.92E-04	4.15E-02	3.46E-06	2.07E-04	5.66E-06	3.40E-04
Carbonyl Sulfide	8.80E-05	5.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hexane	6.50E-06	3.90E-04	8.53E-06	5.12E-04	7.87E-06	4.72E-04	1.66E-05	9.96E-04	5.25E-06	3.15E-04
Methylene Chloride	1.54E-06	9.25E-05	2.34E-06	1.40E-04	1.70E-05	1.02E-03	1.67E-06	1.00E-04	1.57E-06	9.44E-05
Propylene Oxide	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Toluene	3.87E-06	2.32E-04	4.22E-06	2.53E-04	1.35E-05	8.07E-04	1.18E-05	7.07E-04	3.96E-05	2.38E-03

Methodology

Emission Factors are from Tables 4.12-6, 4.12.8 and 4.12-4 of AP 42 Draft Section 4.12

Total VOC Emissions = is the worst case (highest) total VOC or Total Speciated Organics from each process. Maximum capacity (Total lbs/hr) x compound EF (lb/lb rubber)

Potential VOC Emissions = worst case total VOC x 8760 hrs/year / 2000 lbs/ton

Total HAPs Emissions = these calculations are showing a representative of the nine highest HAPs not all HAPs

Potential HAP Emissions = worst case of Total Organic and Total Metal HAPs. Maximum capacity (Total lbs/hr) x compound EF (lb/lb rubber)

Worst case total emissions (lb/hr) = Highest individual pollutant emitted from the compounds.

**Appendix A: Emissions Calculations
Potential VOC and HAPs Emissions**

**Milling
EU #6**

**Company Name: Parker-Hannifin Corporation
Address City IN Zip: 1525 South 10th Street, Goshen, Indiana 46527
Permit Number: 039-29059-00027
Reviewer: Janet Mobley**

Pollutant	Worst Case Total Emissions (lbs/hr)	Cmpd #20 (lb/lb rubber)	Cmpd #20 (lbs/hr)	Cmpd #17 (lb/lb rubber)	Cmpd #17 (lbs/hr)	Cmpd #11 (lb/lb rubber)	Cmpd #11 (lbs/hr)	Cmpd #9 (lb/lb rubber)	Cmpd #9 (lbs/hr)
	400		400		400		400		400
Total VOC	0.259	1.10E-05	4.39E-03	6.48E-04	2.59E-01	4.79E-05	1.92E-02	4.25E-05	1.70E-02
Total Speciated Organics	0.062	7.17E-06	2.87E-03	1.55E-04	6.20E-02	1.83E-05	7.30E-03	2.98E-05	1.19E-02
Total Organic HAPs	0.029	3.45E-06	1.38E-03	7.28E-05	2.91E-02	5.92E-06	2.37E-03	7.90E-06	3.16E-03
Total HAPs	0.029	3.45E-06	1.38E-03	7.28E-05	2.91E-02	5.92E-06	2.37E-03	7.90E-06	3.16E-03
Acetophenone	3.05E-04	8.33E-08	3.33E-05	7.53E-09	3.01E-06	1.19E-07	4.75E-05	7.64E-07	3.05E-04
Acrylonitrile	2.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Aniline	1.06E-04	3.73E-09	1.49E-06	2.66E-07	1.06E-04	1.24E-08	4.95E-06	2.66E-09	1.06E-06
Carbon Disulfide	7.35E-03	1.35E-07	5.39E-05	0.00E+00	0.00E+00	4.48E-06	1.79E-03	3.46E-07	1.38E-04
Carbonyl Sulfide	4.65E-03	8.19E-07	3.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-07	2.38E-04
Hexane	2.34E-02	2.52E-07	1.01E-04	5.85E-05	2.34E-02	1.47E-07	5.89E-05	1.67E-06	6.67E-04
Methylene Chloride	3.43E-03	5.32E-07	2.13E-04	8.58E-06	3.43E-03	2.59E-07	1.04E-04	3.62E-07	1.45E-04
Propylene Oxide	1.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Toluene	5.12E-04	2.46E-07	9.86E-05	5.37E-07	2.15E-04	2.03E-07	8.13E-05	1.17E-06	4.69E-04

Pollutant	Cmpd #14 (lb/lb rubber)	Cmpd #14 (lbs/hr)	Cmpd #22 (lb/lb rubber)	Cmpd #22 (lbs/hr)	Cmpd #18 (lb/lb rubber)	Cmpd #18 (lbs/hr)	Cmpd #5 (lb/lb rubber)	Cmpd (lbs/hr)	Cmpd #16 (lb/lb rubber)	Cmpd #16 (lbs/hr)	Cmpd #8 (lb/lb rubber)	Cmpd #8 (lbs/hr)	Cmpd #12 (lb/lb rubber)	Cmpd #12 (lbs/hr)
		400		400		400		400		400		400		400
Total VOC	3.35E-04	1.34E-01	1.79E-04	7.16E-02	9.48E-05	3.79E-02	3.14E-04	1.26E-01	1.19E-04	4.76E-02	2.14E-05	8.58E-03	4.97E-07	1.99E-04
Total Speciated Organics	7.88E-05	3.15E-02	4.34E-05	1.74E-02	6.37E-05	2.55E-02	3.21E-05	1.28E-02	1.58E-05	6.30E-03	3.83E-05	1.53E-02	9.31E-07	3.72E-04
Total Organic HAPs	2.20E-05	8.78E-03	1.54E-05	6.18E-03	2.42E-05	9.66E-03	2.17E-05	8.68E-03	2.44E-06	9.76E-04	2.89E-05	1.16E-02	3.00E-07	1.20E-04
Total HAPs	2.20E-05	8.78E-03	1.54E-05	6.18E-03	2.42E-05	9.66E-03	2.17E-05	8.68E-03	2.44E-06	9.76E-04	2.89E-05	1.16E-02	3.00E-07	1.20E-04
Acetophenone	8.82E-09	3.53E-06	1.51E-08	6.06E-06	2.96E-08	1.19E-05	9.60E-09	3.84E-06	5.74E-09	2.30E-06	6.69E-09	2.68E-06	3.06E-10	1.22E-07
Acrylonitrile	6.09E-06	2.43E-03	0.00E+00	0.00E+00	4.15E-07	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-08	1.41E-05	0.00E+00	0.00E+00
Aniline	0.00E+00	0.00E+00	2.43E-07	9.71E-05	8.62E-08	3.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-09	1.60E-06	2.30E-10	9.19E-08
Carbon Disulfide	2.21E-06	8.83E-04	4.96E-08	1.98E-05	1.84E-05	7.35E-03	9.52E-08	3.81E-05	2.34E-08	9.34E-06	1.45E-05	5.82E-03	1.76E-07	7.03E-05
Carbonyl Sulfide	5.87E-06	2.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-07	1.11E-04	0.00E+00	0.00E+00	1.16E-05	4.65E-03	0.00E+00	0.00E+00
Hexane	3.52E-07	1.41E-04	4.02E-07	1.61E-04	2.09E-07	8.35E-05	3.07E-06	1.23E-03	9.41E-07	3.76E-04	6.62E-07	2.65E-04	2.94E-08	1.18E-05
Methylene Chloride	8.69E-07	3.48E-04	5.24E-07	2.10E-04	4.50E-07	1.80E-04	2.17E-07	8.67E-05	2.59E-07	1.04E-04	2.49E-07	9.97E-05	4.66E-08	1.87E-05
Propylene Oxide	3.61E-06	1.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Toluene	8.06E-07	3.22E-04	1.28E-06	5.12E-04	3.57E-07	1.43E-04	8.98E-07	3.59E-04	9.07E-08	3.63E-05	6.83E-07	2.73E-04	3.86E-08	1.54E-05

Methodology

Emission Factors are from Tables 4.12-6, 4.12.8 and 4.12-4 of AP 42 Draft Section 4.12

Total VOC Emissions = is the worst case (highest) total VOC or Total Speciated Organics from each process. Maximum capacity (Total lbs/hr) x compound EF (lb/lb rubber)

Potential VOC Emissions = worst case total VOC x 8760 hrs/year / 2000 lbs/ton

Total HAPs Emissions = these calculations are showing a representative of the nine highest HAPs not all HAPS

Potential HAP Emissions = worst case of Total Organic and Total Metal HAPs. Maximum capacity (Total lbs/hr) x compound EF (lb/lb rubber)

Worst case total emissions (lb/hr) = Highest individual pollutant emitted from the compounds.

**Appendix A: Emissions Calculations
Potential Particulate, VOC and HAPs Emissions
Extruding
EU#7**

**Company Name: Parker-Hannifin Corporation
Address City IN Zip: 1525 South 10th Street, Goshen, Indiana 46527
Permit Number: 039-29059-00027
Reviewer: Janet Mobley**

Pollutant	Worst Case Total Emissions (lbs/hr)	Cmpd #20 (lb/lb rubber)	Cmpd #20 (lbs/hr)	Cmpd #17 (lb/lb rubber)	Cmpd #17 (lbs/hr)	Cmpd #11 (lb/lb rubber)	Cmpd #11 (lbs/hr)	Cmpd #8 (lb/lb rubber)	Cmpd #8 (lbs/hr)	Cmpd #14 (lb/lb rubber)	Cmpd #14 (lbs/hr)
	400		400		400		400		400		400
Total VOC	0.022	1.80E-06	7.21E-04	1.06E-05	4.26E-03	7.86E-06	3.15E-03	1.24E-05	4.96E-03	5.50E-05	2.20E-02
Total Speciated Organics	0.064	7.41E-06	2.96E-03	1.60E-04	6.40E-02	1.89E-05	7.54E-03	3.51E-05	1.40E-02	8.14E-05	3.26E-02
Total Particulate	0.0001	8.25E-08	3.30E-05	1.37E-08	5.49E-06	1.85E-08	7.38E-06	1.51E-08	6.05E-06	1.82E-08	7.27E-06
Total Organic HAPs	0.030	3.57E-06	1.43E-03	7.52E-05	3.01E-02	6.12E-06	2.45E-03	1.87E-05	7.47E-03	2.27E-05	9.08E-03
Total Metal HAPs	0.000	5.75E-09	2.30E-06	4.11E-08	1.64E-05	9.75E-10	3.90E-07	1.95E-07	7.80E-05	6.87E-09	2.75E-06
Total HAPs	0.030	3.57E-06	1.43E-03	7.53E-05	3.01E-02	6.12E-06	2.45E-03	1.89E-05	7.54E-03	2.27E-05	9.08E-03
Acetophenone	3.27E-03	8.61E-08	3.44E-05	7.79E-09	3.11E-06	1.23E-07	4.91E-05	8.18E-06	3.27E-03	9.11E-09	3.65E-06
Acrylonitrile	2.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-06	2.52E-03
Aniline	1.10E-04	3.86E-09	1.54E-06	2.75E-07	1.10E-04	1.28E-08	5.12E-06	5.52E-09	2.21E-06	0.00E+00	0.00E+00
Carbon Disulfide	9.68E-03	1.39E-07	5.57E-05	0.00E+00	0.00E+00	4.63E-06	1.85E-03	9.06E-08	3.62E-05	2.28E-06	9.12E-04
Carbonyl Sulfide	4.81E-03	8.46E-07	3.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-06	2.42E-03
Hexane	2.42E-02	2.60E-07	1.04E-04	6.05E-05	2.42E-02	1.52E-07	6.09E-05	8.38E-07	3.35E-04	3.63E-07	1.45E-04
Methylene Chloride	3.55E-03	5.49E-07	2.20E-04	8.87E-06	3.55E-03	2.68E-07	1.07E-04	2.69E-06	1.08E-03	8.99E-07	3.59E-04
Propylene Oxide	1.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-06	1.49E-03
Toluene	3.71E-04	2.55E-07	1.02E-04	5.55E-07	2.22E-04	2.10E-07	8.40E-05	8.95E-07	3.58E-04	8.33E-07	3.33E-04

Pollutant	Cmpd #22 (lb/lb rubber)	Cmpd #12 (lbs/hr)	Cmpd #18 (lb/lb rubber)	Cmpd #18 (lbs/hr)	Cmpd #5 (lb/lb rubber)	Cmpd #5 (lbs/hr)	Cmpd #16 (lb/lb rubber)	Cmpd #16 (lbs/hr)	Cmpd #8 (lb/lb rubber)	Cmpd #8 (lbs/hr)	Cmpd #12 (lb/lb rubber)	Cmpd #12 (lbs/hr)
		400		400		400		400		400		400
Total VOC	8.30E-06	3.32E-03	1.56E-05	6.23E-03	5.15E-05	2.06E-02	1.96E-05	7.82E-03	3.52E-06	1.41E-03	3.69E-06	1.48E-03
Total Speciated Organics	1.81E-05	7.23E-03	6.58E-05	2.63E-02	3.31E-05	1.33E-02	1.63E-05	6.51E-03	3.95E-05	1.58E-02	3.59E-05	1.43E-02
Total Particulate Matter	2.34E-08	9.38E-06	3.36E-08	1.34E-05	1.38E-07	5.52E-05	6.22E-08	2.49E-05	2.99E-08	1.20E-05	2.29E-08	9.15E-06
Total Organic HAPs	8.54E-06	3.42E-03	2.50E-05	9.98E-03	2.24E-05	8.97E-03	2.52E-06	1.01E-03	2.99E-05	1.20E-02	2.97E-05	1.19E-02
Total Metal HAPs	7.54E-07	3.02E-04	2.16E-08	8.66E-06	4.14E-08	1.66E-05	7.71E-10	3.08E-07	2.09E-08	8.38E-06	1.54E-08	6.14E-06
Total HAPs	9.30E-06	3.72E-03	2.50E-05	9.99E-03	2.25E-05	8.99E-03	2.52E-06	1.01E-03	2.99E-05	1.20E-02	2.98E-05	1.19E-02
Acetophenone	1.65E-08	6.60E-06	3.06E-08	1.23E-05	9.92E-09	3.97E-06	5.93E-09	2.37E-06	6.91E-09	2.76E-06	1.85E-07	7.39E-05
Acrylonitrile	0.00E+00	0.00E+00	4.29E-07	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-08	1.46E-05	0.00E+00	0.00E+00
Aniline	2.23E-07	8.92E-05	8.90E-08	3.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-09	1.65E-06	0.00E+00	0.00E+00
Carbon Disulfide	1.16E-07	4.63E-05	1.90E-05	7.59E-03	9.84E-08	3.93E-05	2.41E-08	9.65E-06	1.50E-05	6.01E-03	2.42E-05	9.68E-03
Carbonyl Sulfide	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-07	1.15E-04	0.00E+00	0.00E+00	1.20E-05	4.81E-03	3.29E-06	1.32E-03
Hexane	2.49E-06	9.97E-04	2.16E-07	8.63E-05	3.17E-06	1.27E-03	9.72E-07	3.89E-04	6.84E-07	2.74E-04	2.51E-07	1.00E-04
Methylene Chloride	8.18E-08		4.65E-07		2.24E-07		2.68E-07		2.58E-07		3.49E-07	
		3.27E-05		1.86E-04		8.96E-05		1.07E-04		1.03E-04		1.40E-04
Propylene Oxide	4.42E-07	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Toluene	3.67E-07	1.47E-04	3.69E-07	1.48E-04	9.28E-07	3.71E-04	9.37E-08	3.75E-05	7.05E-07	2.82E-04	3.07E-07	1.23E-04

Methodology

Emission Factors are from Tables 4.12-6, 4.12.8 and 4.12-4 of AP 42 Draft Section 4.12
 Total VOC Emissions = is the worst case (highest) total VOC or Total Speciated Organics from each process. Maximum capacity (Total lbs/hr) x compound EF (lb/lb rubber)
 Potential VOC Emissions = worst case total VOC x 8760 hrs/year / 2000 lbs/ton
 Total HAPs Emissions = these calculations are showing a representative of the nine highest HAPs not all HAPs
 Potential HAP Emissions = worst case of Total Organic and Total Metal HAPs. Maximum capacity (Total lbs/hr) x compound EF (lb/lb rubber)
 Worst case total emissions (lb/hr) = Highest individual pollutant emitted from the compounds.

**Appendix A: Emissions Calculations
Potential VOC and HAPs Emissions
Autoclave Curing Operations**

EU #8

Company Name: Parker-Hannifin Corporation
Address City IN Zip: 1525 South 10th Street, Goshen, Indiana 46527
Permit Number: 039-29059-00027
Reviewer: Janet Mobley

Pollutant	Worst Case Total Emissions (lbs/hr)	Cmpd #20 lb/lb rubber	Cmpd #20 (lbs/hr)	Cmpd #17 lb/lb rubber	Cmpd #17 (lbs/hr)	Cmpd #11 lb/lb rubber	Cmpd #11 (lbs/hr)	Cmpd #12 lb/lb rubber	Cmpd #12 (lbs/hr)	Cmpd #8 lb/lb rubber	Cmpd #8 (lbs/hr)
	2250		2250		2250		2250		2250		2250
Total VOC	2.89	2.18E-05	4.90E-02	1.29E-03	2.89E+00	6.21E-05	1.40E-01	4.46E-05	1.00E-01	6.66E-05	1.50E-01
Total Speciated Organics	13.8	2.34E-04	5.26E-01	5.06E-03	1.14E+01	4.87E-04	1.10E+00	1.13E-03	2.55E+00	6.15E-03	1.38E+01
Total Organic HAPs	13.6	1.13E-04	2.53E-01	2.38E-03	5.35E+00	3.18E-04	7.15E-01	9.39E-04	2.11E+00	6.04E-03	1.36E+01
Total HAPs	13.6	1.13E-04	2.53E-01	2.38E-03	5.35E+00	3.18E-04	7.15E-01	9.39E-04	2.11E+00	6.04E-03	1.36E+01
Acetophenone	9.42E-01	2.72E-06	6.12E-03	2.46E-07	5.53E-04	9.64E-08	2.17E-04	5.83E-06	1.31E-02	9.76E-08	2.20E-04
Acrylonitrile	4.47E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Aniline	1.95E-02	1.22E-07	2.74E-04	8.68E-06	1.95E-02	6.39E-07	1.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Carbon Disulfide	1.33E+01	4.39E-06	9.89E-03	0.00E+00	0.00E+00	2.68E-04	6.04E-01	7.64E-04	1.72E+00	5.93E-03	1.33E+01
Carbonyl Sulfide	4.31E-01	2.67E-05	6.01E-02	0.00E+00	0.00E+00	3.98E-06	8.95E-03	1.04E-04	2.34E-01	4.17E-05	9.38E-02
Hexane	4.30E+00	8.22E-06	1.85E-02	1.91E-03	4.30E+00	6.80E-07	1.55E-03	7.91E-06	1.78E-02	3.22E-06	7.25E-03
Methylene Chloride	6.30E-01	1.73E-05	3.90E-02	2.80E-04	6.30E-01	5.75E-07	1.29E-03	1.10E-05	2.48E-02	2.02E-06	4.54E-03
Propylene Oxide	2.65E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-08	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Toluene	5.91E-02	8.04E-06	1.81E-02	1.75E-05	3.94E-02	5.11E-06	1.15E-02	9.69E-06	2.18E-02	1.59E-05	3.58E-02

Pollutant	Cmpd #9 lb/lb rubber	Cmpd #9 (lbs/hr)	Cmpd #14 lb/lb rubber	Cmpd #14 (lbs/hr)	Cmpd #22 lb/lb rubber	Cmpd #22 (lbs/hr)	Cmpd #18 lb/lb rubber	Cmpd #18 (lbs/hr)	Cmpd #5 lb/lb rubber	Total in lbs/hr	Cmpd #16 lb/lb rubber	Cmpd #16 (lbs/hr)
		2250		2250		2250		2250		2250		2250
Total VOC	2.47E-04	5.55E-01	6.64E-04	1.49E+00	8.68E-05	1.95E-01	7.72E-05	1.74E-01	1.56E-04	3.52E-01	2.36E-04	5.32E-01
Total Speciated Organics	6.43E-04	1.45E+00	2.57E-03	5.79E+00	1.57E-04	3.53E-01	2.21E-03	4.98E+00	3.75E-04	8.44E-01	5.14E-04	1.16E+00
Total Organic HAPs	4.70E-04	1.06E+00	7.16E-04	1.61E+00	6.02E-05	1.35E-01	1.38E-03	3.11E+00	1.81E-04	4.08E-01	7.96E-05	1.79E-01
Total HAPs	4.70E-04	1.06E+00	7.16E-04	1.61E+00	6.02E-05	1.35E-01	1.38E-03	3.11E+00	1.81E-04	4.08E-01	7.96E-05	1.79E-01
Acetophenone	4.19E-04	9.42E-01	2.88E-07	6.48E-04	4.90E-06	1.10E-02	2.15E-07	4.84E-04	2.64E-07	5.95E-04	1.87E-07	4.21E-04
Acrylonitrile	0.00E+00	0.00E+00	1.99E-04	4.47E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Aniline	2.41E-07	5.41E-04	0.00E+00	0.00E+00	3.87E-06	8.71E-03	4.33E-07	9.75E-04	1.07E-06	2.41E-03	0.00E+00	0.00E+00
Carbon Disulfide	7.62E-06	1.71E-02	7.20E-05	1.62E-01	1.86E-06	4.17E-03	1.17E-03	2.64E+00	2.74E-06	6.17E-03	7.62E-07	1.71E-03
Carbonyl Sulfide	1.41E-06	3.18E-03	1.91E-04	4.31E-01	6.41E-07	1.44E-03	1.80E-04	4.04E-01	1.16E-06	2.60E-03	0.00E+00	0.00E+00
Hexane	1.76E-06	3.97E-03	1.15E-05	2.58E-02	2.91E-07	6.54E-04	9.67E-08	2.17E-04	2.00E-06	4.50E-03	3.07E-05	6.91E-02
Methylene Chloride	2.72E-06	6.12E-03	2.84E-05	6.38E-02	1.24E-05	2.79E-02	1.33E-07	2.99E-04	9.11E-05	2.05E-01	8.46E-06	1.90E-02
Propylene Oxide	0.00E+00	0.00E+00	1.18E-04	2.65E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Toluene	4.85E-06	1.09E-02	2.63E-05	5.91E-02	2.02E-06	4.55E-03	4.18E-06	9.40E-03	9.36E-06	2.11E-02	2.96E-06	6.66E-03

Methodology

Emission Factors are from Tables 4.12-6, 4.12.8 and 4.12-4 of AP 42 Draft Section 4.12

Total VOC Emissions = is the worst case (highest) total VOC or Total Speciated Organics from each process. Maximum capacity (Total lbs/hr) x compound EF (lb/lb rubber)

Potential VOC Emissions = worst case total VOC x 8760 hrs/year / 2000 lbs/ton

Total HAPs Emissions = these calculations are showing a representative of the nine highest HAPs not all HAPs

Potential HAP Emissions = worst case of Total Organic and Total Metal HAPs. Maximum capacity (Total lbs/hr) x compound EF (lb/lb rubber)

Worst case total emissions (lb/hr) = Highest individual pollutant emitted from the compounds.

**Appendix A: Emissions Calculations
Limited VOC and HAP Emissions
Autoclaves**

Company Name: Parker-Hannifin Corporation
Address City IN Zip: 1525 South 10th Street, Goshen, Indiana 46527
Permit Number: 039-29059-00027
Reviewer: Janet Mobley

Pollutant	Worst Case Total in tons/yr	Cmpd #20 lb/lb rubber	Total in tons/yr	Cmpd #17 lb/lb rubber	Total in tons/yr	Cmpd #11 lb/lb rubber	Total in tons/yr	Cmpd #12 lb/lb rubber	Total in tons/yr	Cmpd #8 lb/lb rubber	Total in tons/yr	Cmpd #9 lb/lb rubber	Total in tons/yr	Cmpd #14 lb/lb rubber	Total in tons/yr	Cmpd #22 lb/lb rubber	Total in tons/yr	Cmpd #18 lb/lb rubber	Total in tons/yr	Cmpd #5 lb/lb rubber	Total in tons/yr	Cmpd #16 lb/lb rubber	Total in tons/yr
	9855		6765		3090		6765		6765		1000		6765		6765		6765		6765		6765		6765
Total VOC	8.47	2.18E-05	0.147	1.29E-03	3.975	6.21E-05	0.420	4.46E-05	0.302	6.65E-05	0.066	2.47E-04	1.669	6.64E-04	4.494	8.68E-05	0.587	7.72E-05	0.522	1.56E-04	1.058	2.36E-04	1.599
2-Butanone	0.148	2.20E-06	0.015	1.76E-05	0.054	3.33E-07	0.002	1.39E-05	0.094	1.24E-06	0.001	3.02E-07	0.002	5.24E-06	0.035	1.07E-07	0.001	3.09E-08	0.000	4.78E-07	0.003	6.69E-07	0.005
Aniline	0.053	1.22E-07	0.001	8.68E-06	0.027	6.39E-07	0.004	0.00E+00	0.000	0.00E+00	0.000	2.41E-07	0.002	0.00E+00	0.000	3.87E-06	0.026	4.33E-07	0.003	1.07E-06	0.007	0.00E+00	0.000
Chloromethane	0.085	5.67E-06	0.038	1.50E-05	0.046	9.29E-08	0.001	3.91E-07	0.003	0.00E+00	0.000	1.86E-07	0.001	6.11E-07	0.004	1.29E-07	0.001	0.00E+00	0.000	0.00E+00	0.000	2.44E-07	0.002
Ethyl Acrylate	0.247	0.00E+00	0.000	8.00E-05	0.247	0.00E+00	0.000	0.00E+00	0.000	0.00E+00	0.000	0.00E+00	0.000	0.00E+00	0.000	0.00E+00	0.000	0.00E+00	0.000	0.00E+00	0.000	0.00E+00	0.000
Hexane	6.11	8.22E-06	0.056	1.91E-03	5.903	6.90E-07	0.005	7.91E-06	0.054	3.22E-06	0.003	1.76E-06	0.012	1.15E-05	0.078	2.91E-07	0.002	9.67E-08	0.001	2.00E-06	0.014	3.07E-05	0.208
Methylene Chloride	1.48	1.73E-05	0.117	2.80E-04	0.865	5.75E-07	0.004	1.10E-05	0.075	2.02E-06	0.002	2.72E-06	0.018	2.84E-05	0.192	1.24E-05	0.084	1.33E-07	0.001	9.11E-05	0.616	8.46E-06	0.057
Naphthalene	0.006	2.89E-07	0.002	6.78E-07	0.002	3.15E-07	0.002	5.11E-07	0.003	1.64E-07	0.000	1.33E-07	0.001	0.00E+00	0.000	2.45E-07	0.002	8.54E-08	0.001	2.04E-07	0.001	1.90E-07	0.001
Phenol	0.072	3.12E-07	0.002	2.15E-05	0.066	3.54E-08	0.000	4.61E-07	0.003	4.75E-08	0.000	8.49E-07	0.006	9.01E-07	0.006	0.00E+00	0.000	8.28E-09	0.000	1.13E-07	0.001	7.72E-07	0.005

In order to limit the PTE of Hexane below 10 tons per year, Compound #17 usage is limited. All of the pollutants for which Compound #17 results in the worst case emissions are effectively limited by the usage limit, as shown. The worst case total is the limited emissions from Compound #17 plus the worst case emissions from the other compounds when making up for the remaining capacity in the year.

Pollutant	Worst Case Total in tons/yr	Cmpd #20 lb/lb rubber	Total in tons/yr	Cmpd #17 lb/lb rubber	Total in tons/yr	Cmpd #11 lb/lb rubber	Total in tons/yr	Cmpd #12 lb/lb rubber	Total in tons/yr	Cmpd #8 lb/lb rubber	Total in tons/yr	Cmpd #9 lb/lb rubber	Total in tons/yr	Cmpd #14 lb/lb rubber	Total in tons/yr	Cmpd #22 lb/lb rubber	Total in tons/yr	Cmpd #18 lb/lb rubber	Total in tons/yr	Cmpd #5 lb/lb rubber	Total in tons/yr	Cmpd #16 lb/lb rubber	Total in tons/yr
	9855		8790		3000		8790		8790		1065		8790		8790		8790		8790		8790		8790
Total Speciated Organics	29.2	2.34E-04	2.056	5.06E-03	15.2	4.87E-04	4.28	1.13E-03	9.95	6.15E-03	6.55	6.43E-04	5.65	2.57E-03	22.6	1.57E-04	1.38	2.21E-03	19.5	3.75E-04	3.30	5.14E-04	4.52
Total Organic HAPs	18.6	1.13E-04	0.990	2.38E-03	7.13	3.18E-04	2.79	9.39E-04	8.26	6.04E-03	6.43	4.70E-04	4.13	7.16E-04	6.30	6.02E-05	0.529	1.38E-03	12.1	1.81E-04	1.59	7.96E-05	0.700
Total HAPs	18.6	1.13E-04	0.990	2.38E-03	7.13	3.18E-04	2.79	9.39E-04	8.26	6.04E-03	6.43	4.70E-04	4.13	7.16E-04	6.30	6.02E-05	0.529	1.38E-03	12.1	1.81E-04	1.59	7.96E-05	0.700
Benzene	0.117	1.00E-06	0.009	0.00E+00	0.000	1.64E-06	0.014	6.16E-07	0.005	2.07E-05	0.022	2.93E-06	0.026	8.86E-06	0.078	1.07E-05	0.094	3.75E-07	0.003	5.48E-06	0.048	4.41E-07	0.004
Carbon Disulfide	6.95	4.39E-06	0.039	0.00E+00	0.000	2.68E-04	2.36	7.64E-04	6.72	5.93E-03	6.32	7.62E-06	0.067	7.20E-05	0.633	1.86E-06	0.016	1.17E-03	10.3	2.74E-06	0.024	7.62E-07	0.007
Epichlorohydrin	0.002	0.00E+00	0.000	0.00E+00	0.000	0.00E+00	0.000	0.00E+00	0.000	1.85E-06	0.002	0.00E+00	0.000	0.00E+00	0.000	0.00E+00	0.000	0.00E+00	0.000	0.00E+00	0.000	0.00E+00	0.000
Ethylbenzene	0.025	1.34E-06	0.012	0.00E+00	0.000	8.07E-07	0.007	9.72E-07	0.009	2.55E-06	0.003	2.53E-06	0.022	1.04E-06	0.009	1.14E-06	0.010	1.47E-07	0.001	1.32E-06	0.012	0.00E+00	0.000

In order to limit the PTE of Hexane below 10 tons per year, Compound #8 usage is limited. All of the pollutants for which Compound #8 results in the worst case emissions are effectively limited by the usage limit, as shown. The worst case total is the limited emissions from Compound #8 plus the worst case emissions from the other compounds when making up for the remaining capacity in the year.

The totals for Compounds 11, 12 and 18 are not counted towards the worst case total for Carbon Disulfide. The usage of those compounds are limited so that the total from those compounds and Compound #8 does not exceed 6.32 tons per year, as follows: For the purposes of this limit, using 1 ton of Compound #11 shall be considered equal to using 0.045 tons of Compound #8, using 1 ton of Compound #12 shall be considered equal to using 0.129 tons of Compound #8 and using 1 ton of Compound #18 shall be considered equal to using 0.198 tons of Compound #8.

Equivalencies determined as follows:

Compound	Carbon Disulfide Emission Factor lb/lb rubber	Equivalency
11	2.68E-04	0.045
12	7.64E-04	0.129
18	1.17E-03	0.198

Equivalency = Carbon Disulfide Emission Factor (lb/lb rubber) / Compound #8 Carbon Disulfide Emission Factor (lb/lb rubber)

**Appendix A: Emissions Calculations
Potential VOC and HAPs Emissions
Curing Ovens
EU #9**

**Company Name: Parker-Hannifin Corporation
Address City IN Zip: 1525 South 10th Street, Goshen, Indiana 46527
Permit Number: 039-29059-00027
Reviewer: Janet Mobley**

Pollutant	Worst Case Total Emissions (lbs/hr)	Cmpd #20 (lb/lb rubber)	Cmpd #20 (lbs/hr)	Cmpd #17 (lb/lb rubber)	Cmpd #17 (lbs/hr)	Cmpd #11 (lb/lb rubber)	Cmpd #11 (lbs/hr)	Cmpd #8 (lb/lb rubber)	Cmpd #8 (lbs/hr)	Cmpd #14 (lb/lb rubber)	Cmpd #14 (lbs/hr)
	120	120	120	120	120	120	120	120	120	120	120
Total VOC	2.99	4.22E-04	5.06E-02	2.49E-02	2.99E+00	1.84E-03	2.21E-01	1.63E-03	1.96E-01	1.29E-02	1.54E+00
Total Speciated Organics	0.88	3.40E-04	4.09E-02	7.36E-03	8.83E-01	8.67E-04	1.04E-01	1.41E-03	1.70E-01	3.74E-03	4.49E-01
Total HAPs	0.415	1.64E-04	1.97E-02	3.46E-03	4.15E-01	2.81E-04	3.37E-02	3.75E-04	4.51E-02	1.04E-03	1.25E-01
Total Organic HAPs	0.415	1.64E-04	1.97E-02	3.46E-03	4.15E-01	2.81E-04	3.37E-02	3.75E-04	4.51E-02	1.04E-03	1.25E-01
Acetophenone	2.56E-02	3.96E-06	4.75E-04	3.58E-07	4.29E-05	5.64E-06	6.77E-04	3.63E-05	4.35E-03	4.19E-07	5.03E-05
Acrylonitrile	3.47E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-04	3.47E-02
Aniline	1.52E-03	1.77E-07	2.13E-05	1.26E-05	1.52E-03	5.88E-07	7.06E-05	1.26E-07	1.52E-05	0.00E+00	0.00E+00
Carbon Disulfide	1.84E-01	6.40E-06	7.68E-04	0.00E+00	0.00E+00	2.13E-04	2.55E-02	1.64E-05	1.97E-03	1.05E-04	1.26E-02
Carbonyl Sulfide	3.34E-02	3.89E-05	4.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	3.39E-03	2.79E-04	3.34E-02
Hexane	3.34E-01	1.20E-05	1.44E-03	2.78E-03	3.34E-01	6.99E-06	8.39E-04	7.91E-05	9.50E-03	1.67E-05	2.00E-03
Methylene Chloride	4.89E-02	2.53E-05	3.03E-03	4.08E-04	4.89E-02	1.23E-05	1.48E-03	1.72E-05	2.06E-03	4.13E-05	4.96E-03
Propylene Oxide	2.06E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04	2.06E-02
Toluene	6.68E-03	1.17E-05	1.40E-03	2.55E-05	3.06E-03	9.65E-06	1.16E-03	5.56E-05	6.68E-03	3.83E-05	4.59E-03

Pollutant	Cmpd #22 (lb/lb rubber)	Cmpd #22 (lbs/hr)	Cmpd #18 (lb/lb rubber)	Cmpd #18 (lbs/hr)	Cmpd #5 (lb/lb rubber)	Cmpd #5 (lbs/hr)	Cmpd #16 (lb/lb rubber)	Cmpd #16 (lbs/hr)	Cmpd #8 (lb/lb rubber)	Cmpd #8 (lbs/hr)	Cmpd #12 (lb/lb rubber)	Cmpd #12 (lbs/hr)
	120	120	120	120	120	120	120	120	120	120	120	120
Total VOC	2.94E-03	3.53E-01	3.64E-03	4.37E-01	9.37E-04	1.12E-01	4.58E-03	5.49E-01	8.25E-04	9.89E-02	8.65E-04	1.04E-01
Total Speciated Organics	3.01E-03	3.61E-01	3.02E-03	3.63E-01	7.50E-04	9.00E-02	7.48E-04	8.98E-02	1.90E-03	2.28E-01	1.65E-03	1.98E-01
Total HAPs	1.74E-03	2.09E-01	1.15E-03	1.38E-01	3.65E-05	4.38E-03	1.16E-04	1.39E-02	9.76E-04	1.17E-01	1.37E-03	1.64E-01
Total Organic HAPs	1.74E-03	2.09E-01	1.15E-03	1.38E-01	3.65E-05	4.38E-03	1.16E-04	1.39E-02	9.76E-04	1.17E-01	1.37E-03	1.64E-01
Acetophenone	1.46E-05	1.75E-03	1.41E-06	1.69E-04	3.06E-07	3.67E-05	2.73E-07	3.27E-05	2.13E-04	2.56E-02	8.49E-06	1.02E-03
Acrylonitrile	0.00E+00	0.00E+00	1.97E-05	2.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Aniline	8.85E-07	1.06E-04	4.09E-06	4.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-07	1.77E-05	0.00E+00	0.00E+00
Carbon Disulfide	1.53E-03	1.84E-01	8.72E-04	1.05E-01	1.60E-06	1.92E-04	1.11E-06	1.33E-04	6.43E-04	7.72E-02	1.11E-03	1.34E-01
Carbonyl Sulfide	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	1.81E-02
Hexane	6.86E-06	8.23E-04	9.92E-06	1.19E-03	3.90E-06	4.67E-04	4.47E-05	5.36E-03	3.13E-06	3.75E-04	1.15E-05	1.38E-03
Methylene Chloride	1.32E-06	1.58E-04	2.14E-05	2.57E-03	2.38E-06	2.85E-04	1.23E-05	1.48E-03	3.61E-06	4.33E-04	1.60E-05	1.93E-03
Propylene Oxide	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Toluene	5.25E-06	6.30E-04	1.70E-05	2.03E-03	2.75E-06	3.30E-04	4.31E-06	5.17E-04	4.37E-06	5.24E-04	1.41E-05	1.69E-03

Methodology

Emission Factors are from Tables 4.12-6, 4.12.8 and 4.12-4 of AP 42 Draft Section 4.12
 Total VOC Emissions = is the worst case (highest) total VOC or Total Speciated Organics from each process. Maximum capacity (Total lbs/hr) x compound EF (lb/lb rubber)
 Potential VOC Emissions = worst case total VOC x 8760 hrs/year / 2000 lbs/ton
 Total HAPs Emissions = these calculations are showing a representative of the nine highest HAPs not all HAPs
 Potential HAP Emissions = worst case of Total Organic and Total Metal HAPs. Maximum capacity (Total lbs/hr) x compound EF (lb/lb rubber)
 Worst case total emissions (lb/hr) = Highest individual pollutant emitted from the compounds.

Appendix A: Emissions Calculations

**VOC Emissions
Insignificant Coating**

Unit - EU#10

Company Name: Parker-Hannifin Corporation
Address City IN Zip: 1525 South 10th Street, Goshen, Indiana 46527
Permit Number: 039-29059-00027
Reviewer: Janet Mobley

Material	Density (Lb/Gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gal/unit)	Maximum (unit/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential (ton/yr)	lb VOC/gal solids	Transfer Efficiency
Blackout white	7.76	84.000%	0.0%	84.0%	0.0%	20.00%	7.90E-10	60.000	6.52	6.52	3.09E-07	7.42E-06	1.35E-06	0.00E+00	32.59	100%
ucd 8062V	8.92	56.000%	0.0%	56.0%	0.0%	50.00%	7.90E-10	60.000	5.00	5.00	2.37E-07	5.68E-06	1.04E-06	0.00E+00	9.99	100%
ucd 6012V	8.76	62.000%	0.0%	62.0%	0.0%	40.00%	7.90E-10	60.000	5.43	5.43	2.57E-07	6.18E-06	1.13E-06	0.00E+00	13.58	100%
ucd 5750V	13.40	35.000%	0.0%	35.0%	0.0%	65.00%	7.90E-10	60.000	4.69	4.69	2.22E-07	5.34E-06	9.74E-07	0.00E+00	7.22	100%
ucd 5150V	9.45	59.000%	0.0%	59.0%	0.0%	40.00%	7.90E-10	60.000	5.58	5.58	2.64E-07	6.34E-06	1.16E-06	0.00E+00	13.94	100%
ucd 4820V	8.80	58.000%	0.0%	58.0%	0.0%	40.00%	7.90E-10	60.000	5.10	5.10	2.42E-07	5.81E-06	1.06E-06	0.00E+00	12.76	100%

Potential Emissions Add worst case coating to all solvents

Uncontrolled	1.53E-06	3.68E-05	6.71E-06	0.00E+00
Controlled	1.53E-06	3.68E-05	6.71E-06	0.00E+00

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)

Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)

Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)

Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)

Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)

Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr) *(1 ton/2000 lbs)

Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)

Total = Worst Coating + Sum of all solvents used



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

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

TO: Doug Allen
Parker Hannifin Corporation
501 S Sycamore St
Syracuse, IN 46567

DATE: January 20, 2011

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

SUBJECT: Final Decision
FESOP - Renewal
039-29059-00027

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:
Dennis Wolcott (Parker Hannifin Corporation)
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



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

January 20, 2011

TO: Goshen Public Library

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

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

Applicant Name: Parker Hannifin Corporation
Permit Number: 039-29059-00027

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

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

Enclosures
Final Library.dot 11/30/07

Mail Code 61-53

IDEM Staff	MIDENNEY 1/20/2011 Parker-Hannifin Corporation .039-29059-00027 (final)		Type of Mail: CERTIFICATE OF MAILING ONLY	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		Doug Allen Parker-Hannifin Corporation 501 S Sycamore St Syracuse IN 46567 (Source CAATS) via confirmed delivery										
2		Elkhart County Health Department Elkhart County Health Department 608 Oakland Avenue Elkhart IN 46516 (Health Department)										
3		Goshen City Council and Mayors Office 202 South 5th Street Suite 1 Goshen IN 46528 (Local Official)										
4		Laurence A. McHugh Barnes & Thornburg 100 North Michigan South Bend IN 46601-1632 (Affected Party)										
5		Goshen Public Library 601 S 5th St Goshen IN 46526-3994 (Library)										
6		Elkhart County Board of Commissioners 117 North Second St. Goshen IN 46526 (Local Official)										
7		Dennis Wolcott Parker-Hannifin Corp. 6035 Parkland Blvd. Cleveland OH 44124 (Source - addl contact)										
8		Mark Zeltwanger 26545 CR 52 Nappanee IN 46550 (Affected Party)										
9												
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