INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: May 23, 2007

RE: Contech U.S. LLC / 085-19196-00079

FROM: Nisha Sizemore
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, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures
FNPER.dot 03/23/06

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100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
(317) 232-8603
(800) 451-6027
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FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) RENEWAL OFFICE OF AIR QUALITY

Contech U.S., LLC
5 Arnolt Drive
Pierceton, Indiana 46562

(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 provision of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; and 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.

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.

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.

Operation Permit No.: F085-19196-00079	
Original Signed By: Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: May 23, 2007 Expiration Date: May 23, 2012

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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 aluminum die-casting plant.

Source Address:	5 Arnolt Drive, Pierceton, Indiana 46562
Mailing Address:	5 Arnolt Drive, Pierceton, Indiana 46562
General Source Phone:	(574) 594-9682
SIC Code:	3363
Source Location Status:	Kosciusko
Source Status:	Attainment for all criteria pollutants Federally Enforceable State Operating Permit (FESOP) Minor Source, under PSD Minor Source, Section 112 of the Clean Air Act Not in 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) Goff shot blasting unit (identified as EU2), with a maximum throughput rate of 11.6 tons of aluminum per hour, with particulate emissions controlled by a dust collector and exhausting inside the building. This unit was constructed in 1999.

(b) One (1) Goff shot blasting unit (identified as EU3), with a maximum throughput rate of 11.6 tons of aluminum per hour, with particulate emissions controlled by a dust collector and exhausting inside the building. This unit was constructed in 1999.

(c) Sixteen (16) die-cast cells consisting of:

(1) Five (5) aluminum melt furnaces, each with a maximum throughput rate of 0.75 tons per hour, burning natural gas with a maximum heat input capacity of 2.25 MMBtu per hour. These units were constructed in 1999.

(2) Seven (7) aluminum melt furnaces, each with a maximum throughput rate of 0.88 tons per hour, burning natural gas at a maximum heat input capacity of 2.40 MMBtu per hour. These units were constructed from 1999 through 2000.

(3) Four (4) aluminum melt furnaces, each with a maximum throughput rate of 1.25 tons per hour, burning natural gas at a maximum heat input capacity of 3.0 MMBtu per hour. Three (3) furnaces were constructed in 2000 and one (1) in 2001.

(4) Two (2) 1600 ton die-casting machines, each with a maximum throughput capacity of 1.25 tons of aluminum per hour. These units were constructed in 2000 and 2001.

(5) One (1) 800 series UBE HVSC die-casting machine with a maximum throughput capacity of 0.88 tons of aluminum per hour. This unit was constructed in 2003.

(6) Five (5) trim presses, each with a maximum throughput rate of 0.75 tons of aluminum per hour. These units were constructed in 1999.

(7) Three (3) 800 ton die-casting machines, each with a maximum throughput capacity of 0.75 tons of aluminum per hour. These units were constructed in 1999.

(8) Eight (8) 1000 ton die-casting machines, each with a maximum throughput capacity of 0.88 tons of aluminum per hour. Two (2) machines were constructed in 1999 and four (4) machines were constructed in 2000.

(9) Seven (7) trim presses, each with a maximum throughput rate of 0.88 tons of aluminum per hour. These units were constructed from 1999 through 2000.

(10) Four (4) trim presses, each with a maximum throughput rate of 1.25 tons of aluminum per hour. These units were constructed in 2000.

(11) Two (2) 2000 ton die-casting machines, each with a maximum throughput capacity of 1.02 tons of aluminum per hour. These units were constructed in 2000.

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, as defined in 326 IAC 2-7-1(21):

(a) Five (5) natural gas-fired make up units, each with a maximum heat input capacity of 11.27 MMBtu per hour. Three (3) units were installed in 1999 and two (2) in 2000.

(b) One (1) natural gas-fired heater with a maximum heat input capacity of 0.150 MMBtu per hour. This unit was installed in 1999.

(c) Two (2) natural gas-fired HVAC heaters with a combined maximum heat input capacity of 0.090 MMBtu per hour. These units were installed in 1999.

(d) One (1) natural gas-fired heater with a maximum heat input capacity of 0.180 MMBtu per hour. This unit was installed in 1999.

(e) One (1) natural gas-fired heater with a maximum heat input capacity of 0.120 MMBtu per hour. This unit was installed in 1999.

(f) One (1) natural gas-fired heater with a maximum heat input capacity of 6.574 MMBtu per hour. This unit was installed in 1999.

(g) One (1) natural gas-fired heater with a maximum heat input capacity of 0.145 MMBtu per hour. This unit was installed in 1999.

(h) Five (5) heat-treat furnaces, each rated at 4.0 MMBtu per hour and exhausting at stacks SF-1 through SF-5. These units were installed in 2000.

(i) One (1) quench tank heater with a maximum heat input capacity of 2.0 MMBtu per hour. This unit was installed in 1999.

(j) Five (5) age ovens (identified as 1 though 5), each with a maximum heat input capacity of 2.4 MMBtu per hour and exhausting at stacks AO 1 through AO 5. These units were installed in 1999.

(k) One (1) parts washer heater with a maximum heat input capacity of 1.0 MMBtu per hour and exhausting at stack W-1. The parts washer uses water and a non-VOC based detergent to clean metal scrap. This unit was installed in 1999.

(l) One (1) waste water evaporator heater with a maximum heat input capacity of 0.395 MMBtu per hour and exhausting at stack E-1. This unit was installed in 1999.

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, F085-19196-00079, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

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

B.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]

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. The submittal by the Permittee does require the certification by an “authorized individual” as defined by 326 IAC 2-1.1-1(1). 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 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.9 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]

(a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an authorized individual of truth, accuracy, and completeness. This certification, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(b) One (1) certification shall be included, using the attached Certification Form, 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.10 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 July 1 of each year to:

Indiana Department of Environmental Management
Compliance 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, IDEM, OAQ, may require determining the compliance status of the source.

The notification which shall be submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

(a) If required by specific condition(s) in Section D of the permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after the issuance of this permit, 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.

(b) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by an "authorized individual" as defined by 326 IAC 2-1-1(1).

(c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.12 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 describes 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, and 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 No.: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section) or,
Telephone No.: 317-233-0178 (ask for Compliance Section)
Facsimile No.: 317-233-6865

Northern Regional Office
Telephone No.: 547-245-4870; 1-800-753-5519
Facsimile No.: 547-245-4877

(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 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 the certification 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.

(h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

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

(a) All terms and conditions of permits established prior to F085-19196-00079 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 2-7-3 and 326 IAC 2-7-4(a).

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

(a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provision), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

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

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. 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.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

B.16 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 the certification 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.17 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 the certification by an "authorized individual" as defined by 326 IAC 2-1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, 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 in writing by IDEM, OAQ, any additional information identified as being needed to process the application.

B.18 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
Permits Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Any such application shall be certified by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement the 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.19 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]

(a) The Permittee may make any change or changes at this source that are described in 326 IAC 2-8-15(b) through (d), without 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
Permits Branch, 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, to 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.20 Source Modification Requirement [326 IAC 2-8-11.1]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-8-11.1.

B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC13-30-3-1]

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.22 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
Permits Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

The application which shall be submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement notice-only changes addressed in the request for a notice-only change immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.23 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, within 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.24 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

Emissions 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 of particulate matter with an aerodynamic diameter equal to ten (10) micrometers (PM10), from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period. This limitation shall also make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

(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 (Prevention of Significant Deterioration (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 5-1-3 (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(3)]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and in 326 IAC 9-1-2.

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
Asbestos Section, Office of Air Quality
100 North Senate Avenue
MC 61-52 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 Accredited 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 Accredited 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) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, 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 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 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, all monitoring and record keeping requirements not already legally required shall be implemented upon issuance of this permit. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, 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 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 inability to meet this date.

The notification which shall be submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

C.12 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63 or other approved methods as specified in this permit.

C.13 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.14 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 prepared and 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.15 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.16 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]

(a) Upon detecting an excursion or exceedance, the Permittee shall 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 emissions.

(b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:

(1) initial inspection and evaluation;

(2) recording that operations returned 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 within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.

(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;

(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 maintain the following records:

(1) monitoring data;

(2) monitor performance data, if applicable; and

(3) corrective actions taken.

C.17 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 take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.

(b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) 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 the certification 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.18 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, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.19 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. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by an "authorized individual" as defined by 326 IAC2-1.1-1(1).

(b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, 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) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(e) 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.20 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 the standards for recycling and emissions reduction:

(a) Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices pursuant to 40 CFR 82.156

(b) Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.

(c) Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1 FACILITY OPERATION CONDITIONS

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

(a) One (1) Goff shot blasting unit (identified as EU2), with a maximum throughput rate of 11.6 tons of aluminum per hour, with particulate emissions controlled by a dust collector and exhausting inside the building. This unit was constructed in 1999.

(b) One (1) Goff shot blasting unit (identified as EU3), with a maximum throughput rate of 11.6 tons of aluminum per hour, with particulate emissions controlled by a dust collector and exhausting inside the building. This unit was constructed in 1999.

(c) Sixteen (16) die-cast cells consisting of:

(1) Five (5) aluminum melt furnaces, each with a maximum throughput rate of 0.75 tons per hour, burning natural gas with a maximum heat input capacity of 2.25 MMBtu per hour. These units were constructed in 1999.

(2) Seven (7) aluminum melt furnaces, each with a maximum throughput rate of 0.88 tons per hour, burning natural gas at a maximum heat input capacity of 2.40 MMBtu per hour. These units were constructed from 1999 through 2000.

(3) Four (4) aluminum melt furnaces, each with a maximum throughput rate of 1.25 tons per hour, burning natural gas at a maximum heat input capacity of 3.0 MMBtu per hour. Three (3) furnaces were constructed in 2000 and one (1) in 2001.

(4) Two (2) 1600 ton die-casting machines, each with a maximum throughput capacity of 1.25 tons of aluminum per hour. These units were constructed in 2000 and 2001.

(5) One (1) 800 series UBE HVSC die-casting machine with a maximum throughput capacity of 0.88 tons of aluminum per hour. This unit was constructed in 2003.

(6) Five (5) trim presses, each with a maximum throughput rate of 0.75 tons of aluminum per hour. These units were constructed in 1999.

(7) Three (3) 800 ton die-casting machines, each with a maximum throughput capacity of 0.75 tons of aluminum per hour. These units were constructed in 1999.

(8) Eight (8) 1000 ton die-casting machines, each with a maximum throughput capacity of 0.88 tons of aluminum per hour. Two (2) machines were constructed in 1999 and four (4) machines were constructed in 2000.

(9) Seven (7) trim presses, each with a maximum throughput rate of 0.88 tons of aluminum per hour. These units were constructed from 1999 through 2000.

(10) Four (4) trim presses, each with a maximum throughput rate of 1.25 tons of aluminum per hour. These units were constructed in 2000.

(11) Two (2) 2000 ton die-casting machines, each with a maximum throughput capacity of 1.02 tons of aluminum per hour. These units were constructed in 2000.

(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.1.1 Particulate Matter with an Aerodynamic Diameter Less Than or Equal to Ten (10) Micrometers (PM10) [326 IAC 2-8]

Pursuant to 326 IAC 2-8 (FESOP), PM10 emissions from aluminum die-casting melt furnaces and the shot blasting units shall not exceed the pounds per hour limit as shown in the table below.

Emission Units	PM10 Emission Limit (lb/hour)
Each of the Two (2) Shot Blasting Units (EU2 and EU3)	0.19
Each of the Five (5) Melt Furnaces	0.83
Each of the Seven (7) Al Melt Furnaces	0.96
Each of the Four (4) Melt Furnaces	1.38
Each of the Two (2) 1600 ton Die Casting Machines	0.23
Each of Three (3) 800 ton Die Casting Machines	0.14
One (1) Die Casting Machine	0.16
Each of the Eight (8) 1000 ton Die Casting Machines	0.16
Each of the Two (2) 2000 ton Die Casting Machines	0.55

This is equivalent to 85.1 tons of PM10 per year from the shot blasting units, aluminum melt furnaces, and die-casting machines.

Compliance with these limits pursuant to 326 IAC 2-8 (FESOP) in combination with the potential to emit of PM10 from the combustion units and trim presses shall keep the source wide PM10 emissions less than 100 tons per year, and renders the provisions of 326 IAC 2-7 (Part 70 Permit Program) not applicable.

D.1.2 PSD Minor Source Limit [326 IAC 2-2]

The source shall comply with the following limits:

Emission Units	PM Emission Limit (lb/hour)	PM 10 Emission Limit (lb/hour)
Each of the Two (2) Shot Blasting Units (EU2 and EU3)	1.97	0.19
Each of the Five (5) Melt Furnaces	0.83	0.83
Each of the Seven (7) Al Melt Furnaces	0.96	0.96
Each of the Four (4) Melt Furnaces	1.38	1.38
Each of the Two (2) 1600 ton Die Casting Machines	0.23	0.23
Each of Three (3) 800 ton Die Casting Machines	0.14	0.14
One (1) Die Casting Machine	0.16	0.16
Each of the Eight (8) 1000 ton Die Casting Machines	0.16	0.16
Each of the Two (2) 2000 ton Die Casting Machines	0.55	0.55

Compliance with these limits in combination with the potential to emit of PM and PM10 from the combustion units and trim presses shall keep the source wide PM and PM10 emissions to less than 250 tons per year for each pollutant, and will render 326 IAC 2-2 (PSD) not applicable.

D.1.3 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e) (Particulate Emission Limitations for Manufacturing Processes), the particulate emissions from the aluminum die casting plant shall not exceed the pound per hour limit as shown in the table below.

Emission Units	Maximum Throughput Rate (tons/hour)	Allowable Particulate Emission Rate (lb/hour)
Each of the Two (2) Shot Blasting Units (EU2 and EU3)	11.6	21.2
Each of the Five (5) Melt Furnaces	0.75	3.38
Each of the Seven (7) Al Melt Furnaces	0.88	3.75
Each of the Four (4) Melt Furnaces	1.25	4.76
Each of the Two (2) 1600 ton Die-Casting Machines	1.25	4.76
Each of the Three (3) 800 ton Die Casting Machines	0.75	3.38
One (1) Die Casting Machine	0.88	3.75
Each of the Eight (8) 1000 ton Die Casting Machine	0.88	3.75
Pouring/Casting	14.9	25.1
Each of the Five (5) Trim Presses	0.75	3.38
Each of the Seven (7) Trim Presses	0.88	3.75
Each of the Four (4) Trim Presses	1.25	4.76
Each of the Two (2) 2000 ton Die Casting Machines	1.02	4.15

The pounds per hour limitation was calculated using the following equation:
Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour:

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

where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour.

D.1.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and control devices.

Compliance Determination

D.1.5 Particulate control

(a) In order to comply with Conditions D.1.1 and D.1.2, the baghouses for particulate control shall be in operation and control emissions from the shot blasting units (EU2 and EU3) at all times that these facilities are in operation.

(b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

D.1.6 Testing Requirements [326 IAC 2-8-5(a) (1), (4)] [326 IAC 2-1.1-11]

In order to demonstrate compliance with Conditions D.1.1, D.1.2 and D.1.3, the Permittee shall perform PM and PM10 testing for one of shotblasters, within one hundred eighty (180) days after issuance of this permit, utilizing methods as approved by the Commissioner. These tests shall be repeated on the other shotblaster five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.

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

D.1.7 Visible Emissions Notations

(a) Visible emission notations of the two (2) shot blasting units (EU2 and EU3) stack exhausts shall be performed once per day during normal daylight operations when venting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal, or maintain a record of the reason why the visible emission notations were not taken.

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

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

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

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.1.8 Parametric Monitoring

The Permittee shall record the pressure drop across the two (2) dust collectors used in conjunction with the two (2) shot blasting units, at least once per day when either of the two (2) shot blasting units are in operation and venting to the atmosphere. When for any one reading, the pressure drop across either of the two (2) dust collectors 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 or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, 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 at least once every six (6) months.

D.1.9 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 unit 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 line. 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 Requirement [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.1.10 Record Keeping Requirements

(a) To document compliance with Condition D.1.7, the Permittee shall maintain records of visible emission notations of the two (2) shot blasting units stack exhausts once per day when venting to the atmosphere. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation, (e.g., the process did not operate that day).

(b) To document compliance with Condition D.1.8, the Permittee shall maintain records once per day of the pressure drop when venting to the atmosphere. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of pressure drop reading, (e.g., the process did not operate that day).

(c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) CERTIFICATION

Source Name: Contech U.S., LLC
Source Address: 5 Arnolt Drive, Pierceton, Indiana 46562
Mailing Address: 5 Arnolt Drive, Pierceton, Indiana 46562
FESOP No.: 085-19196-00079

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 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:	Contech U.S., LLC
Source Address:	5 Arnolt Drive, Pierceton, Indiana 46562
Mailing Address:	5 Arnolt Drive, Pierceton, Indiana 46562
FESOP No.:	085-19196-00079

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: _____

A certification is not required for this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Contech U.S., LLC
Source Address: 5 Arnolt Drive, Pierceton, Indiana 46562
Mailing Address: 5 Arnolt Drive, Pierceton, Indiana 46562
FESOP No.: 085-19196-00079

Months: _____ to _____ Year: _____

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, 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 "No deviations occurred this reporting period".
☐ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.
☐ 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: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management
Office of Air Quality

Addendum to the
Technical Support Document (TSD)
for a Federally Enforceable State Operating Permit (FESOP) Renewal

Source Background and Description

Source Name:	Contech U.S., LLC (formerly known as Contech Division, SPX Corporation)
Source Location:	5 Arnolt Drive, Pierceton, Indiana 46562
County:	Kosciusko
SIC Code:	3363
Operating Permit Renewal No.:	F085-19196-00079
Permit Reviewer:	ERG/SD

On March 30, 2007, the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) had a notice published in the Times Union, Warsaw, Indiana, stating that Contech Division, SPX Corporation had applied for a Federally Enforceable State Operating Permit (FESOP) Renewal to continue to operate a stationary aluminum die-casting plant. The notice also stated that IDEM, OAQ proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

On April 17, 2007, Contech Division, SPX Corporation submitted comments on the proposed FESOP renewal. The summary of the comments and responses are shown below. Deleted text is shown in ~~strikeout~~ and new text is shown in **bold**. The Table of Contents has been updated as necessary.

Comment 1:

The Permittee indicated their legal name changed from Contech Division, SPX Corporation to Contech U.S., LLC as of April 16, 2007, and requested this change be reflected in the renewal permit.

Response to Comment 1:

IDEM, OAQ has updated the permit to reflect the legal name change. This change has been made throughout the permit.

Comment 2:

The Permittee commented that there are no unpermitted emission units operating at the source, as indiciated in the TSD. The Permittee has always operated 16 die-casting machines at the 5 Arnolt Drive location, which were not well documented in the original FESOP No.: 085-11548-00079, issued on March 29, 2000. The Permittee requested the following revisions to facility descriptions. The throughput capacities and the heat input rate for these emission units do not change.

(a) A.2 (c) (1) - delete the word reverbatory from the aluminum furnace description.

(b) A.2 (c) (4) - revise four (4) 1500 ton die casting machines to two (2) 1600 die-casting machines.

(c) A.2 (c) (7) - revise five (5) 800 ton die-casting machines to three (3) 800 ton die-casting machines.

(d) A.2 (c) (8) - revise six (6) 800 ton die-casting machines to eight (8) 1000 ton die-casting machines.

(e) Add two (2) 2000 ton die-casting machines, each with a maximum throughput rate of 1.02 tons of aluminum per hour.

(f) A.3 (h) - revise three (3) heat-treat furnaces to five (5) heat-treat furnaces.

(g) A.3 (j) - revise seven (7) age ovens to five (5) age ovens.

Response to Comment 2:

The facility descriptions have been revised in Sections A.2, A.3, D.1 and D.2 as requested. The air compliance inspector for Kosciusko County confirmed that there are total of sixteen (16) die-casting machines at the source. The potential to emit of PM and PM10 from the sixteen (16) die-casting machines after this revision remains at 11.6 tons per year. The limited potential to emit of PM and PM10 from these activities were revised to ensure the potential to emit of PM and PM10 from the entire source remains less than 250 and 100 tons per year, pursuant to the provisions of 326 IAC 2-2 and 326 IAC 2-8, respectively (see Condition D.1.1 and D.1.2). The particulate emission rate pursuant to the provisions of 326 IAC 6-3-2 was calculated for the two (2) 2000 ton die-casting machines (see Condition D.1.3). IDEM, OAQ has also updated the record keeping requirements.

No changes have been made to the TSD due to these revisions because IDEM, OAQ prefers that the TSD reflect the permit that was on public notice. Changes to the permit that occur after the public notice are documented in this Addendum. This accomplishes the desired result of ensuring that these types of concerns are documented and part of the record regarding this permit decision.

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:

. . .

(c) Sixteen (16) die-cast cells consisting of:

(1) Five (5) aluminum ~~reverbatory~~ melt furnaces, each with a maximum throughput rate of 0.75 tons per hour, burning natural gas with a maximum heat input capacity of 2.25 MMBtu per hour. These units were constructed in 1999.

. . .

(4) ~~Four (4) 1500~~ **Two (2) 1600** ton die-casting machines, each with a maximum throughput capacity of 1.25 tons of aluminum per hour. These units were constructed in 2000 and 2001.

. . .

(7) ~~Five (5)~~ **Three (3)** 800 ton die-casting machines, each with a maximum throughput capacity of 0.75 tons of aluminum per hour. These units were constructed in 1999.

(8) ~~Six (6) 800~~ **Eight (8) 1000** ton die-casting machines, each with a maximum throughput capacity of 0.88 tons of aluminum per hour. Two (2) machines were constructed in 1999 and four (4) machines were constructed in 2000.

(11) Two (2) 2000 ton die-casting machines, each with a maximum throughput capacity of 1.02 tons of aluminum per hour. Those units were constructed in 2000.

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, as defined in 326 IAC 2-7-1(21):

. . .

(h) ~~Three (3)~~ **Five (5)** heat-treat furnaces, each rated at 4.0 MMBtu per hour and exhausting at stacks SF-1~~, 2 and 3~~ **through SF-5**. These units were installed in 2000.

. . .

(j) ~~Seven (7)~~ **Five (5)** age ovens (identified as 1 though ~~7~~ **5**), each with a maximum heat input capacity of 2.4 MMBtu per hour and exhausting at stacks AO 1~~, 2, 3 and 4~~ **through AO 5**. These units were installed in 1999.

. . .

SECTION D.1 FACILITY OPERATION CONDITIONS

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

. . .

(c) Sixteen (16) die-cast cells consisting of:

(1) Five (5) aluminum ~~reverbatory~~ melt furnaces, each with a maximum throughput rate of 0.75 tons per hour, burning natural gas with a maximum heat input capacity of 2.25 MMBtu per hour. These units were constructed in 1999.

. . .

(4) ~~Four (4) 1500 ton~~ **Two (2) 1600** die-casting machines, each with a maximum throughput capacity of 1.25 tons of aluminum per hour. These units were constructed in 2000 and 2001.

. . .

(7) ~~Five (5)~~ **Three (3)** 800 ton die-casting machines, each with a maximum throughput capacity of 0.75 tons of aluminum per hour. These units were constructed in 1999.

(8) ~~Six (6) 800~~ **Eight (8) 1000** ton die-casting machines, each with a maximum throughput capacity of 0.88 tons of aluminum per hour. Two (2) machines were constructed in 1999 and four (4) machines were constructed in 2000.

. . .

(11) Two (2) 2000 ton die-casting machines, each with a maximum throughput capacity of 1.02 tons of aluminum per hour. Those units were constructed in 2000.

(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.1.1 Particulate Matter with an Aerodynamic Diameter Less Than or Equal to Ten (10) Micrometers (PM10) [326 IAC 2-8]

Pursuant to 326 IAC 2-8 (FESOP), PM10 emissions from aluminum die-casting melt furnaces and the shot blasting units shall not exceed the pounds per hour limit as shown in the table below.

Emission Units	PM10 Emission Limit (lb/hour)
Each of the Two (2) Shot Blasting Units (EU2 and EU3)	0.19
Each of the Five (5) ~~Reverbatory~~ Melt Furnaces	0.83
Each of the Seven (7) Al Melt Furnaces	0.96
Each of the Melt Furnaces	1.38
Each of the ~~Four (4)~~ **Two (2) 1600 ton** Die Casting Machines	0.23
Each of ~~Five (5)~~ **Three (3) 800 ton** Die Casting Machines	0.14
One (1) Die Casting Machine	0.16
Each of the ~~Six (6)~~ **Eight (8) 1000 ton** Die Casting Machines	0.16
Each of the Two (2) 2000 ton Die Casting Machines	**0.55**

. . .

D.1.2 PSD Minor Source Limit [326 IAC 2-2]

The source shall comply with the following limits:

Emission Units	PM Emission Limit (lb/hour)	PM 10 Emission Limit (lb/hour)
Each of the Two (2) Shot Blasting Units (EU2 and EU3)	1.97	0.19
Each of the Five (5) ~~Reverbatory~~ Melt Furnaces	0.83	0.83
Each of the Seven (7) Al Melt Furnaces	0.96	0.96
Each of the Four (4) Melt Furnaces	1.38	1.38
Each of the ~~Four (4)~~ **Two (2) 1600 ton** Die Casting Machines	0.23	0.23
Each of ~~Five (5)~~ **Three (3) 800 ton** Die Casting Machines	0.14	0.14
One (1) Die Casting Machine	0.16	0.16
Each of the ~~Six (6)~~ **Eight (8) 1000 ton** Die Casting Machines	0.16	0.16
Each of the Two (2) 2000 ton Die Casting Machines	**0.55**	**0.55**

. . .

D.1.3 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e) (Particulate Emission Limitations for Manufacturing Processes), the particulate emissions from the aluminum die casting plant shall not exceed the pound per hour limit as shown in the table below.

Emission Units	Maximum Throughput Rate (tons/hour)	Allowable Particulate Emission Rate (lb/hour)
Each of the Two (2) Shot Blasting Units (EU2 and EU3)	11.6	21.2
Each of the Five (5) ~~Reverbatory~~ Melt Furnaces	0.75	3.38
Each of the Seven (7) Al Melt Furnaces	0.88	3.75
Each of the Four (4) Melt Furnaces	1.25	4.76
Each of the ~~Four (4)~~ **Two (2) 1600 ton** Die-Casting Machines	1.25	4.76
Each of the ~~Five (5)~~ **Three (3) 800 ton** Die Casting Machines	0.75	3.38
One (1) Die Casting Machine	0.88	3.75
Each of the ~~Six (6)~~ **Eight (8) 1000 ton** Die Casting Machine	0.88	3.75
Pouring/Casting	14.9	25.1
Each of the Five (5) Trim Presses	0.75	3.38
Each of the Seven (7) Trim Presses	0.88	3.75
Each of the Four (4) Trim Presses	1.25	4.76
Each of the Two (2) 2000 ton Die Casting Machines	**1.02**	**4.15**

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

D.1.10 Record Keeping Requirements

(a) To document compliance with Condition D.1.7, the Permittee shall maintain records of visible emission notations of the two (2) shot blasting units stack exhausts once per day when venting to the atmosphere. **The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation, (e.g., the process did not operate that day).**

(b) To document compliance with Condition D.1.8, the Permittee shall maintain records once per day of the pressure drop when venting to the atmosphere. **The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of pressure drop reading, (e.g., the process did not operate that day).**

. . .

Upon further review, IDEM, OAQ has decided to make the following changes to the permit:

1. The specific mail codes (MC) for each of the IDEM branches has been added to the address to improve mail delivery, as follows:

   Permits Branch: **MC 61-53 IGCN 1003**
   Compliance Branch: **MC 61-53 IGCN 1003**
   Asbestos Section: **MC 61-52 IGCN 1003**
   Technical Support and Modeling: **MC 61-50 IGCN 1003**

Indiana Department of Environmental Management
Office of Air Quality

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

Source Background and Description

Source Name:	Contech Division, SPX Corporation
Source Location:	5 Arnolt Drive, Pierceton, Indiana
County:	Kosciusko
SIC Code:	3363, 3471
Operation Permit No.:	F085-11548-00079
Operation Permit Issuance Date:	March 29, 2000
Permit Renewal No.:	F85-19196-00079
Permit Reviewer:	ERG/SD

The Office of Air Quality (OAQ) has reviewed a FESOP renewal application from Contech Division, SPX Corporation relating to the operation of a stationary aluminum die-casting source.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

(a) One (1) Goff shot blasting unit (identified as EU2), with a maximum throughput rate of 11.6 tons of aluminum per hour, with particulate emissions controlled by a dust collector and exhausting inside the building. This unit was constructed in 1999.

(b) One (1) Goff shot blasting unit (identified as EU3), with a maximum throughput rate of 11.6 tons of aluminum per hour, with particulate emissions controlled by a dust collector and exhausting inside the building. This unit was constructed in 1999.

(c) Sixteen (16) die-cast cells consisting of:

(1) Five (5) aluminum reverbatory melt furnaces, each with a maximum throughput rate of 0.75 tons per hour, burning natural gas with a maximum heat input capacity of 2.25 MMBtu per hour. These units were constructed in 1999.

(2) Seven (7) aluminum melt furnaces, each with a maximum throughput rate of 0.88 tons per hour, burning natural gas at a maximum heat input capacity of 2.40 MMBtu per hour. These units were constructed from 1999 through 2000.

(3) Four (4) aluminum melt furnaces, each with a maximum throughput rate of 1.25 tons per hour, burning natural gas at a maximum heat input capacity of 3.0 MMBtu per hour. Three (3) furnaces were constructed in 2000 and one (1) in 2001.

(4) Four (4) 1500 ton die-casting machines, each with a maximum throughput capacity of 1.25 of aluminum tons per hour. These units were constructed in 2000 and 2001.

(5) One (1) 800 series UBE HVSC die-casting machine with a maximum throughput capacity of 0.88 tons of aluminum per hour. This unit was constructed in 2003.

(6) Five (5) trim presses, each with a maximum throughput rate of 0.75 tons of aluminum per hour. These units were constructed in 1999.

Unpermitted Emission Units and Pollution Control Equipment

The source also consists of the following unpermitted emission units which are a part of the sixteen (16) die-cast cells listed in item (c) under permitted emission units and pollution control equipment:

(7) Five (5) 800 ton die-casting machines, each with a maximum throughput capacity of 0.75 tons of aluminum per hour. These units were constructed in 1999.

(8) Six (6) 800 ton die-casting machines, each with a maximum throughput capacity of 0.88 tons of aluminum per hour. Two (2) machines were constructed in 1999 and four (4) machines were constructed in 2000.

(9) Seven (7) trim presses, each with a maximum throughput rate of 0.88 tons of aluminum per hour. These units were constructed from 1999 through 2000.

(10) Four (4) trim presses, each with a maximum throughput rate of 1.25 tons of aluminum per hour. These units were constructed in 2000.

Insignificant Activities

The source consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

(a) Five (5) natural gas-fired make up units, each with a maximum heat input capacity of 11.27 MMBtu per hour. Three (3) units were installed in 1999 and two (2) in 2000.

(b) One (1) natural gas-fired heater with a maximum heat input capacity of 0.150 MMBtu per hour. This unit was installed in 1999.

(c) Two (2) natural gas-fired HVAC heaters with a combined maximum heat input capacity of 0.090 MMBtu per hour. These units were installed in 1999.

(d) One (1) natural gas-fired heater with a maximum heat input capacity of 0.180 MMBtu per hour. This unit was installed in 1999.

(e) One (1) natural gas-fired heater with a maximum heat input capacity of 0.120 MMBtu per hour. This unit was installed in 1999.

(f) One (1) natural gas-fired heater with a maximum heat input capacity of 6.574 MMBtu per hour. This unit was installed in 1999.

(g) One (1) natural gas-fired heater with a maximum heat input capacity of 0.145 MMBtu per hour. This unit was installed in 1999.

(h) Three (3) heat-treat furnaces, each rated at 4.0 MMBtu per hour and exhausting at stacks SF-1, 2 and 3. These units were installed in 2000.

(i) One (1) quench tank heater with a maximum heat input capacity of 2.0 MMBtu per hour. This unit was installed in 1999.

(j) Seven (7) age ovens (identified as 1 though 7), each with a maximum heat input capacity of 2.4 MMBtu per hour and exhausting at stacks AO 1, 2, 3 and 4. These units were installed in 1999.

(k) One (1) parts washer heater with a maximum heat input capacity of 1.0 MMBtu per hour and exhausting at stack W-1. The parts washer uses water and a non-VOC based detergent to clean metal scrap. This unit was installed in 1999.

(l) One (1) waste water evaporator heater with a maximum heat input capacity of 0.395 MMBtu per hour and exhausting at stack E-1. This unit was installed in 1999.

Existing Approvals

The source has been operating under the previous FESOP 085-11548-00079 issued on March 29, 2000, with an expiration date of March 29, 2005, and the following amendments and revisions:

(a) First Reopening No.: 085-13061-00079, issued on January 2, 2002.

(b) First Administrative Amendment No.: 085-16751-00079, issued on December 10, 2002.

(c) Second Administrative Amendment No.: 085-16830-00079, issued on March 24, 2004.

All conditions from previous approvals were incorporated into this FESOP.

Enforcement Issue

IDEM is aware that equipment has been operated prior to receipt of the proper permit. The subject equipment is listed in this Technical Support Document under the condition entitled "Unpermitted Emission Units and Pollution Control Equipment". IDEM is reviewing this matter and will take appropriate action.

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 administratively complete FESOP renewal application for the purposes of this review was received on May 14, 2004. Additional information was received on August 11, 2004, August 12, 2004, September 7, 2006, and December 7, 2006.

Emission Calculations

See Appendix A of this document for detailed emission calculations (Appendix A, pages 1 through 8).

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source, excluding the emission limits that were contained in the previous FESOP.

Pollutant	Unrestricted Potential Emissions (tons/year)
PM	1,813
PM10	261
SO_2	1.73
VOC	13.0
CO	59.7
NO_x	71.7

HAPs	Potential to Emit (tons/year)
Benzene	1.49E-03
Dichlorobenzene	8.49E-04
Formaldehyde	5.31 E-02
Hexane	1.27
Toluene	2.41E-03
Total	1.33

(a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of PM10 is equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 2-7. The source will be issued a FESOP because the source will limit its emissions below the Title V levels.

(b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is less 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 less than twenty-five (25) 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 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

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.

	Limited Potential To Emit (tons/year)						
	PM	**PM10**	**SO_2**	**VOC**	**CO**	**NOx**	**HAPs**
Two (2) Shot Blasting Units	Less than 17.3	Less than 1.73	0.0	0.0	0.0	0.0	0.0
Sixteen (16) Aluminum Furnaces	71.7	71.7	0.11	0.96	14.7	17.5	0.0
Sixteen (16) Die Casting Machines	11.7	11.7	1.30	9.12	0.0	0.65	0.0
*Sixteen (16) Trim Presses	Less than 1.00	Less than 1.00	0.0	0.0	0.0	0.0	0.0
Natural Gas-Fired Combustion Units	1.02	4.07	0.32	2.94	45.0	53.5	1.33
Total PTE After Issuance	Less than 103	Less than 90.2	1.73	13.0	59.7	71.7	Less than 10 and 25 for single and combination respectively

*The trim presses area hydraulic powered die and fixture that holds the case and cooled part firmly while pressing it through a close fitting die. As it passes through the die, a small amount of aluminum is trimmed off of the part where excess aluminum may have accumulated during pouring/casting operations. The part is then removed from the press. The PM and PM10 emissions from this process are expected to be negligible. However, IDEM has allocated 1.00 ton per year to this process in order to account for the emissions generated. A small amount of aluminum trimming that falls to the floor during the process is collected and sold for recycling.

This source is not a major source for PSD (326 IAC 2-2) because PM and PM10 emissions are limited to less than 250 tons per year each, and potential to emit of all other pollutants is below major source thresholds.

County Attainment Status

The source is located in Kosciusko County.

Pollutant	Status
PM10	Attainment
PM2.5	Attainment
SO_2	Attainment
NO_2	Attainment
8-hour Ozone	Attainment
CO	Attainment
Lead	Attainment

(a) 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. Kosciusko 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. See the State Rule Applicability – Entire Source Section.

(b) Kosciusko County has been classified as attainment 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. See the State Rule Applicability – Entire Source Section.

(c) Kosciusko County has been classified as unclassifiable or attainment for PM2.5. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM2.5 emissions. Therefore, until the U.S.EPA adopts specific provisions for PSD review for PM2.5 emissions, it has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions. See the State Rule Applicability – Entire Source section.

(d) Fugitive Emissions
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability

Federal Rule Applicability

(a) The requirements of New Source Performance Standards, 40 CFR 60.190 - Standards of Performance for Primary Aluminum Reduction Plants (NSPS) is not included in this permit for the source because it does not consist of potroom groups or anode bake plants as defined in 40 CFR 60.191.

(b) The requirements of New Source Performance Standards (NSPS), 40 CFR 60.380 - Standards of Performance for Metallic Mineral Processing Plants is not included in this permit for the source because it is not a metallic mineral processing plant as defined in 40 CFR 60.381. This source does not produce metallic mineral concentrates from ore.

(c) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit for this source.

(d) The requirements of National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR 63.1500, Subpart RRR (National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production) are not included in this permit. This source does not perform any secondary metal production activities such as drying the

received scrap, shredding or grinding, burning off organic and other volatile residues (such as paint or oil), sweating, or decanting to separate the aluminum from other metals in the scrap and the plant uses only clean aluminum charge and aluminum scrap generated within the source.

(e) There are no other National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 20)(40 CFR Part 61 and 63) included in the permit for the source.

State Rule Applicability – Entire Source

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

Contech Division was constructed in 1997 and is not one (1) of the twenty-eight (28) categories because it is an aluminum die-casting plant using only clean aluminum and aluminum scrap generated within the source. During the review of the permit application in 1999, the potential to emit of PM and PM10 from the shot blasting units was calculated to be greater than 250 tons per year. However, the source was issued FESOP No.: 085-11548-00079 on March 29, 2000 that limited the potential to emit of PM and PM10 from the entire source to less than 250 and 100 tons per year, respectively. Since the Permittee has opted to continue to operate the source under the provisions of a FESOP, the following limits were added in this permit to ensure practical enforceability of the limit.

Emission Units	PM Emission Limit (lb/hour)	PM10 Emission Limit (lb/hour)
Each of the Two (2) Shot Blasting Units (EU2 and EU3)	1.97	0.19
Each of the Five (5) Reverbatory Melt Furnaces	0.83	0.83
Each of the Seven (7) Al Melt Furnaces	0.96	0.96
Each of the Four (4) Melt Furnaces	1.38	1.38
Each of the Four (4) Die Casting Machines	0.23	0.23
Each of Five (5) Die Casting Machines	0.14	0.14
One (1) Die Casting achine	0.16	0.16
Each of the Six (6) Die Casting Machines	0.16	0.16

These limits in combination with the PTE from other insignificant units are equivalent to less than 250 tons of PM and PM10 per year each, from the entire source. All other regulated pollutants are less than the 250 tons per year threshold.

326 IAC 2-6 (Emission Reporting)

This source is located in Kosciusko County, and is not required to operate under a Part 70 Permit Program and the potential to emit of lead (Pb) is less than five (5) tons per year. However, pursuant to 326 IAC 2-6-1(b), the Permittee is only subject to additional information requests as provided in 326 IAC 2-6-5.

326 IAC 2-4.1 (Major Source of Hazardous Air Pollutants (HAPs))

The aluminum die-casting plant has potential to emit of a single HAP and combination of HAPs less than ten (10) and twenty-five (25) tons per year, respectively. Therefore, this source is not subject to the provisions of 326 IAC 2-4.1.

326 IAC 2-8 (Federally Enforceable State Operating Permit (FESOP))

The potential to emit of PM10 from the entire source is greater than one hundred (100) tons per year. In order to limit the source to less than one hundred (100) tons per year of PM10, the potential to emit of PM10 shall be limited as shown in the table below:

Emission Units	PM10 Emission Limit (lb/hour)
Each of the Two (2) Shot Blasting Units (EU2 and EU3)	0.19
Each of the Five (5) Reverbatory Melt Furnaces	0.83
Each of the Seven (7) Al Melt Furnaces	0.96
Each of the Four (4) Melt Furnaces	1.38
Each of the Four (4) Die Casting Machines	0.23
Each of Five (5) Die Casting Machines	0.14
One (1) Die Casting Machine	0.16
Each of the Six (6) Die Casting Machines	0.16

These limits are equivalent to 85.1 tons of PM10 per year from the shot blasting units, aluminum melt furnaces, and die-casting machines. Compliance with above limits together with PTE from other insignificant units shall keep the PM10 emissions from the source to less than 100 tons per year and render 326 IAC 2-7 not applicable.

326 IAC 5-1 (Opacity Limitations)

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

State Rule Applicability - Furnaces, Trim Presses, Die-Casting Machines, Shot Blasting Units

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

Pursuant to 326 IAC 6-3-2(e) (Particulate Emission Limitations for Manufacturing Processes), particulate emissions from the aluminum die-casting plant shall not exceed the particulate emission limits in pounds per hour as shown in the table below:

Emission Units	Maximum Throughput Rate (lbs/hour)	Maximum Throughput Rate (tons/hour)	Allowable Particulate Emission Rate (lb/hour)
Each of the Two (2) Shot Blasting Units (EU2 and EU3)	23,280	11.6	21.2
Each of the Five (5) Reverbatory Melt Furnaces	1,500	0.75	3.38
Each of the Seven (7) Al Melt Furnaces	1,750	0.88	3.75
Each of the Four (4) Melt Furnaces	2,500	1.25	4.76
Each of the Four (4) Die-Casting Machines	2,500	1.25	4.76
Each of the Five (5) Die Casting Machines	1,500	0.75	3.38
One (1) Die Casting Machine	1,750	0.88	3.75
Each of the Six (6) Die Casting Machine	1,750	0.88	3.75
Pouring/Casting	29,750	14.9	25.1
Each of the Five (5) Trim Presses	1,500	0.75	3.38
Each of the Seven (7) Trim Presses	1,750	0.88	3.75
Each of the Four (4) Trim Presses	2,500	1.25	4.76

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

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour:

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

Where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour.

Based on the calculations provided in Appendix A, all emissions units are able to comply with these limits (i.e. the potential to emit for each unit is less than the limit provided by 326 IAC 6-3).

326 IAC 8-1-6 (New Facilities; General Reduction Requirements)

The aluminum melt furnaces are not subject to the requirements of 326 IAC 8-1-6, because the potential VOC emissions from these facilities are less than twenty-five (25) tons per year.

State Rule Applicability - Natural Gas-Fired Combustion Units

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

The natural gas-fired combustion units (heaters and ovens) are not subject to the provisions of 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes) because these units are not manufacturing processes.

326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating)

The natural gas-fired combustion units (heaters and ovens) are not subject to the provisions of 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating) because these units are not indirect heating units.

State Rule Applicability – Parts Washer

326 IAC 8-3-1 (Organic Solvent Degreasing Operations)

The one (1) parts washer at the source is not subject to the provisions of 326 IAC 8-3-1 because this unit uses water and a non-VOC based detergent to clean the metal scrap.

State Rule Applicability – Heat Treat Furnaces

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

The natural gas-fired heat treat furnaces are not subject to the provisions of 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes) because according to 326 IAC 6-3-1(b)(14) manufacturing processes with potential emissions less than five hundred fifty-one thousandths (0.551) pounds per hour are exempt from the provisions of this rule.

Testing Requirements

Testing requirements for one of the shotblasters is included in the permit. The majority of uncontrolled PM10 emissions are from the shotblasters.

Compliance Requirements

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less 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 requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions 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 approporiate corrective actions within a specific time period.

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

The two (2) shot blasting units have applicable compliance monitoring conditions as specified below:

Visible Emission Notations

(a) Visible emission notations of the two (2) shot blasting units (EU2 and EU3) stack exhausts shall be performed once per day during normal daylight operations when venting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal, or maintain a record of the reason why the visible emission notations were not taken.

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

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

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

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

Parametric Monitoring

(f) The Permittee shall record the pressure drop across the two (2) dust collectors used in conjunction with the two (2) shot blasting units, at least once per day when either of the two (2) shot blasting units are in operation and venting to the atmosphere, or maintain a record of the reason why a pressure drop reading was not taken. When for any one reading, the pressure drop across either of the two (2) dust collectors 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 or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, 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 at least once every six (6) months.

Broken or Failed Bag Detection

(g) 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).

(h) For a single compartment baghouse controlling emissions from a batch process, the feed to the unit 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 line. 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).

(i) 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.

These monitoring conditions are necessary because the dust collectors for the two (2) shot blasting units must operate properly to ensure compliance with 326 IAC 2-2(PSD), 326 IAC 6-3, and 326 IAC 2-8 (FESOP).

Conclusion

The operation of this aluminum die-casting plant shall be subject to the conditions of the FESOP Renewal No.: F085-19196-00079.

Appendix A: Emission Calculations
Natural Gas-Fired Units

Company Name: Contech Division, SPX Corporation
Address: 5 Arnolt Drive, Pierceton, Indiana 46562
FESOP Renewal: 085-19196
Plt ID: 085-00079
Reviewer: ERG/SD
Date: January 8, 2006

Heat Input Capacity (MMBtu/hour)		Potential Throughput (MMSCF/year)
125	(Total of 25 units)	1071

Pollutant

	* PM	* PM10	SO_2	** NO_x	VOC	CO
Emission Factor (lb/MMSCF)	1.90	7.60	0.60	100	5.5	84.0
Potential To Emit (tons/year)	1.02	4.07	0.32	53.5	2.94	45.0

* PM emission factor is filterable PM only; and PM10 emission factor is filterable and condensable PM combined.
**Emission factor for NOx: Uncontrolled = 100 lb/MMCF.
Emission factors are from AP-42, Chapter 1.4, Tables 1.4-1, 1.4-2, and 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (July, 1998).

METHODOLOGY

Potential Throughput (MMSCF/year) = Heat Input Capacity (MMBtu/hour) * 8760 hours/year * 1 MMSCF/1020 MMBtu

Potential To Emit (tons/year) = Potential Throughput (MMSCF/year) * Emission Factor (lb/MMSCF) * 1 ton/2000 lbs

See next page for HAPs emissions calculations.

Appendix A: Emission Calculations
Natural Gas-Fired Units

Company Name: Contech Division, SPX Corporation
Address: 5 Arnolt Drive, Pierceton, Indiana 46562
FESOP Renewal: 085-19196
Plt ID: 085-00079
Reviewer: ERG/SD
Date: January 8, 2006

HAPs - Organics

	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor (lb/MMSCF)	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential To Emit (tons/year)	1.12E-03	6.43E-04	4.02E-02	9.64E-01	1.82E-03

HAPs - Metals

	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor (lb/MMSCF)	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential To Emit (tons/year)	2.68E-04	5.89E-04	7.50E-04	2.03E-04	1.12E-03

Methodology is the same as previous page.

The five highest organic and metal HAPs emission factors provided above are from AP-42, Chapter 1.4, Table 1-4.2, 1.4-3 and 1.4-4 (July, 1998).
Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Appendix A: Emission Calculations
Sixteen (16) Melt Furnaces - Natural Gas Combustion Only

Company Name: Contech Division, SPX Corporation
Address: 5 Arnolt Drive, Pierceton, Indiana 46562
FESOP Renewal: 085-19196
Plt ID: 085-00079
Reviewer: ERG/SD
Date: January 8, 2006

Heat Input Capacity (MMBtu/hour)		Potential Throughput (MMSCF/year)
40.1	(Total of 16 Units)	350.8

Pollutant

	* PM	* PM10	SO_2	** NO_x	VOC	CO
Emission Factor (lb/MMSCF)	1.90	7.60	0.60	100	5.5	84.0
Potential To Emit (tons/year)	NA	NA	0.11	17.5	0.96	14.7

* PM emission factor is filterable PM only; and PM10 emission factor is filterable and condensable PM combined.
for the furnaces.
**Emission factor for NOx: Uncontrolled = 100 lb/MMCF.
Emission factors are from AP-42, Chapter 1.4, Tables 1.4-1, 1.4-2, and 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (July, 1998).

METHODOLOGY

Potential Throughput (MMSCF/year) = Heat Input Capacity (MMBtu/hour) * 8760 hours/year * 1 MMSCF/1020 MMBtu

Potential To Emit (tons/year) = Potential Throughput (MMSCF/year) * Emission Factor (lb/MMSCF) * 1 ton/2000 lbs

See next page for HAPs emissions calculations.

Appendix A: Emission Calculations
Five (5) Melt Furnaces - Natural Gas Combustion Only

Company Name: Contech Division, SPX Corporation
Address: 5 Arnolt Drive, Pierceton, Indiana 46562
FESOP Renewal: 085-19196
Plt ID: 085-00079
Reviewer: ERG/SD
Date: November 6, 2006

HAPs - Organics

	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor (lb/MMSCF)	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential To Emit (tons/year)	3.68E-04	2.11E-04	1.32E-02	3.16E-01	5.96E-04

HAPs - Metals

	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor (lb/MMSCF)	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential To Emit (tons/year)	8.77E-05	1.93E-04	2.46E-04	6.67E-05	3.68E-04

The five highest organic and metal HAPs emission factors provided above are from AP-42, Chapter 1.4, Table 1.4-2, 1.4-3 and 1.4-4 (July, 1998).
Additional HAPs emission factors are available in AP-42, Chapter 1.4.
Methodology is the same as previous page.

Appendix A: Emission Calculations
Aluminum Melt Furnaces

Company Name: Contech Division, SPX Corporation
Address: 5 Arnolt Drive, Pierceton, Indiana 46562
FESOP Renewal: 085-19196
Plt ID: 085-00079
Reviewer: ERG/SD
Date: January 8, 2006

Emission Unit Description	Maximum Throughput Rate (lb/hour)	(ton/hour)	*Emission Factor PM/PM10 (lb/ton)	PTE of PM/PM10 From Each Unit (tons/year)	PTE of PM/PM10 From Each Unit (lb/hour)	** Particulate Emission Limit (lb/hour)	PTE of PM/PM10 From Total Units (tons/year)
Each of the 5 Al Reverbatory Furnaces	1,500	0.75	1.1	3.61	0.83	3.38	18.1
Each of the 7 Al Melt Furnaces	1,750	0.88	1.1	4.22	0.96	3.75	29.5
Each of the 4 Al Melt Furnaces	2,500	1.25	1.1	6.02	1.38	4.76	24.1
							71.7

Assume all PM emissions are equal to PM10.

This source uses clean metal charge only. Therefore, the PM10 emission factor of 1.1 lb/ton is applied for furances using clean metal charge only, from Air Quality Permits, Vol.1 (1991 Editio

** Pariculate emission limit was calculated using the 326 IAC 6-3 Process Weight Rule.

METHODOLOGY

Maximum throughput (tons/hour) = Maximum throughput (lbs/hour) * 1ton/2000 lbs
PTE of PM/PM10 (tons/year) = Maximum throughput (tons/hour) * Emission factor (lb/ton) * 1ton/2000 lbs * 8760 hours/year
PTE of PM/PM10 (lbs/hour) = Maximum throughput (tons/hour) * Emission factor (lb/ton)

Appendix A: Emission Calculations
Sixteen (16) Die-Casting Facilities

Company Name: Contech Division, SPX Corporation
Address: 5 Arnolt Drive, Pierceton, Indiana 46562
FESOP Renewal: 085-19196
Plt ID: 085-00079
Reviewer: ERG/SD
Date: January 8, 2006

POTENTIAL TO EMIT BEFORE CONTROLS IN TONS PER YEAR

Emission Units	Maximum Throughput		*PM Emission Factor	PTE of PM	*PM10 Emission Factor	PTE of PM10	*VOC Emission Factor	PTE of VOC	*SO_2 Emission Factor	PTE of SO_2	*NOx Emission Factor	PTE of NOx
	(lbs/hour)	(tons/hour)	(lbs/ton)	(tons/year)	(lb/ton)	(tons/year)	(lb/ton)	(tons/year)	(lb/ton)	(tons/year)	(lb/ton)	(tons/year)
4 Die casting Machines	2,500	1.25	0.18	3.94	0.18	3.94	0.00	0.00	0.00	0.00	0.00	0.00
5 Die casting Machines	1,500	0.75	0.18	2.96	0.18	2.96	0.00	0.00	0.00	0.00	0.00	0.00
1 Die casting Machine	1,750	0.88	0.18	0.69	0.18	0.69	0.00	0.00	0.00	0.00	0.00	0.00
6 Die casting Machines	1,750	0.88	0.18	4.14	0.18	4.14	0.00	0.00	0.00	0.00	0.00	0.00
Pouring/Casting	29,750	14.9	0.00	0.00	0.00	0.00	0.14	9.12	0.02	1.30	0.01	0.65
TOTAL				**11.7**		**11.7**		**9.12**		**1.30**		**0.65**

There is no emission factor for die-casting. Therefore, an emission factor of 0.18 lb/ton was taken from an air permit for a clean aluminum processing facility in Kentucky to derive a worst case scenario.
Emission factor for Pouring/Casting is from FIRE (Version 6.23)Industrial Processes - Aluminum (SCC 3-04-001-14)

METHODOLOGY
Maximum throughput (tons/hour) = Maximum throughput (lbs/hour) * 1ton/2000 lbs
PTE before control (tons/year) = Maximum throughput (tons/hour) * Emission factor (lb/ton) * 1ton/2000 lbs * 8760 hours/year

Appendix A: Emission Calculations
Two (2) Shot Blasting Units

Company Name: Contech Division, SPX Corporation
Address: 5 Arnolt Drive, Pierceton, Indiana 46562
FESOP Renewal: 085-19196
Plt ID: 085-00079
Reviewer: ERG/SD
Date: January 8, 2006

Emission/Process Unit	Maximum Throughput Rate tons/hour	Emission Factor * PM (lb/ton)	Emission Factor * PM10 (lb/ton)	PTE of PM (tons/year) Before Control	PTE of PM10 (tons/year) Before Control	PTE of PM (tons/year) After Control	PTE of PM10 (tons/year) After Control
Each of the two Shot blasting units	11.6	17	1.7	864	86.4	8.64	0.86
			Total for two (2) units (tons/year) =	1727	173	17.3	1.73

Each shot blasting unit is controlled by a dust collector with a control efficiency equal to 99%.
Emission factor is from FIRE, Grey Iron Foundries, SCC 3-04-003-40.

METHODOLOGY
Before Control:
PTE of PM/PM10 (tons/year) = Maximum Throughput Rate (tons/hour) * Emission Factor (lb PM/PM10 per tons Handled) * 8760 hours/year * 1 ton/2000 lbs
After Control:
PTE of PM/PM10 (tons/year) = Maximum Throughput Rate (tons/hour) * Emission Factor (lb PM/PM10 per tons Handled) * 8760 hours/year * 1 ton/2000 lbs * (1- Control Efficiency %)

Appendix A: Emission Calculations
Summary

Company Name: Contech Division, SPX Corporation
Address: 5 Arnolt Drive, Pierceton, Indiana 46562
FESOP Renewal: 085-19196
Plt ID: 085-00079
Reviewer: ERG/SD
Date: January 8, 2006

POTENTIAL TO EMIT BEFORE CONTROLS IN TONS PER YEAR

Emission Units	PM	PM10	SO_2	NOx	VOC	CO
Natural Gas-Fired Units	1.02	4.07	0.32	53.5	2.94	45.0
16 Aluminum Melt Furnaces	71.7	71.7	0.11	17.5	0.96	14.7
2 Shot Blasting Units	1,727	173	0.00	0.00	0.00	0.00
16 Die-Casting Machines	11.7	11.7	1.30	0.65	9.12	0.00
** Trim Presses	1.00	1.00	0.00	0.00	0.00	0.00
TOTAL	**1,813**	**261**	**1.73**	**71.7**	**13.0**	**59.7**

LIMITED POTENTIAL TO EMIT IN TONS PER YEAR

Emission Units	PM	PM10	SO_2	NOx	VOC	CO
Natural Gas-Fired Units	1.02	4.07	0.32	53.5	2.94	45.0
16 Aluminum Melt Furnaces	71.7	71.7	0.11	17.5	0.96	14.7
2 Shot Blasting Units	17.3	1.73	0.00	0.00	0.00	0.00
16 Die-Casting Machines	11.7	11.7	1.30	0.65	9.12	0.00
** Trim Presses	1.00	1.00	0.00	0.00	0.00	0.00
TOTAL	**103**	**90.2**	**1.73**	**71.7**	**13.0**	**59.7**

** The trim presses are a hydraulic powered die and fixture that holds the case and cooled part firmly while pressing it through a close fitting die.
As it passes through the die, a small amount of aluminum is trimmed off of the part where excess aluminum may have accumulated during pouring/casting operations.
The part is then removed from the press. An insignificant amount of aluminum trimming that falls to the floor during the process is collected
and sold for recycling.