

**FEDERALLY ENFORCEABLE STATE
OPERATING PERMIT (FESOP)
OFFICE OF AIR MANAGEMENT
and Northern Regional Office**

**Contech Division, SPX Corporation
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.

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.: F085-11548-00079	
Issued by: Paul Dubenetzky, Branch Chief Office of Air Management	Issuance Date:

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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 Management (OAM) and Northern Regional Office. 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 an aluminum die casting and shot blasting operation.

Authorized Individual: Mike Mulac
Source Address: 5 Arnolt Drive, Pierceton, IN 46562
Mailing Address: P.O. Box 710, Pierceton, IN 46562-0710
Phone Number: 219-594-9681 x128
SIC Code: 3363
County Location: Kosciusko
County Status: Attainment for all criteria pollutants
Source Status: Federally Enforceable State Operating Permit (FESOP)
Minor Source, under PSD

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) 328 pound/minute Goff shot blasting system, identified as no. 1, with dust collector,
- (b) one (1) 1,500 pound/minute Goff shot blasting unit, identified as no. 2, with dust collector exhausting inside the building,
- (c) one (1) 1,500 pound/minute Goff shot blasting unit, identified as no. 3, with dust collector exhausting inside the building,
- (d) two (2) 11.27 MMBtu/hr natural gas fired make-up units,
- (e) Air make-up unit no. 4 rated at 11.275 MMBtu/hr,
- (f) Air make-up unit no. 5 rated at 11.275 MMBtu/hr,
- (g) Air make-up unit no. 6 rated at 11.275 MMBtu/hr, and
- (h) 924 pound/minute Hunziker shot blasting system with dust collector which will be replaced by a 1,500 pound/minute Goff shot blast unit identified as no. 2.

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

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-

1(21):

- (a) five (5) 2.25 MMBtu/hr natural gas fired 0.75 ton/hr modern reverberatory furnaces,
- (b) three (3) 1500 ton die casting machines,
- (c) two (2) 350 series UBE HVSC die casting machines,
- (d) five (5) trim presses,
- (e) 0.150 MMBtu/hr natural gas fired heater,
- (f) two (2) 0.090 MMBtu/hr natural gas fired HVAC heaters,
- (g) 0.180 MMBtu/hr natural gas fired heater,
- (h) 0.120 MMBtu/hr natural gas fired heater,
- (i) 6.574 MMBtu/hr natural gas fired make-up unit,
- (j) 0.145 MMBtu/hr natural gas fired unit,
- (k) eleven (11) aluminum melting furnaces/die cast cells with seven (7), identified as 6, 7, 8, 13, 14, 15, and 16, rated at 2.4 MMBtu/hr and four (4), identified as 9, 10, 11, and 12, rated at 3.0 MMBtu/hr exhausting to stacks GV-6, 7, 8, 9, 10, 11, 12, 13, 14, 15 and 16,
- (l) three (3) solution furnaces each rated at 4.0 MMBtu/hr exhausting to stacks SF-1, 2 and 3,
- (m) one (1) quench tank heater rated at 2.0 MMBtu/hr exhausting inside the building,
- (n) seven (7) age ovens, identified as nos. 1-7, each rated at 2.4 MMBtu/hr exhausting to stacks AO-1, 2, 3 and 4,
- (o) one (1) parts washer heater rated at 1.0 MMBtu/hr exhausting to stack W-1, and
- (p) one (1) waste water evaporator heater rated at 0.395 MMBtu/hr exhausting to stack E-1.

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 Management (OAM) for a Federally Enforceable State Operating Permit (FESOP).

A.5 Prior Permit Conditions

- (a) This permit shall be used as the primary document for determining compliance with applicable requirements established by previously issued permits.
- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance,

including any term or condition from a previously issued construction or operation permit, IDEM, OAM, Northern Regional Office shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued.

SECTION B GENERAL CONDITIONS

B.1 Permit No Defense [IC 13]

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.

B.2 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, any applicable definitions found in IC 13-11, 326 IAC 1-2, and 326 IAC 2-7 shall prevail.

B.3 Permit Term [326 IAC 2-8-4(2)]

This permit is issued for a fixed term of five (5) years from the effective date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3.

B.4 Enforceability [326 IAC 2-8-6]

- (a) All terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM and the Northern Regional Office.
- (b) Unless otherwise stated, terms and conditions of this permit, including any provisions to limit the source-s potential to emit, are enforceable by the United States Environmental Protection Agency (U.S. EPA) and citizens under the Clean Air Act.
- (c) All terms and conditions in this permit that are local requirements, including any provisions designed to limit the source-s potential to emit, are enforceable by the Northern Regional Office.

B.5 Termination of Right to Operate [326 IAC 2-8-9] [326 IAC 2-8-3(h)]

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

B.6 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.7 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.8 Duty to Supplement and Provide Information [326 IAC 2-8-3(f)] [326 IAC 2-8-4(5)(E)]

- (a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Northern Regional Office
220 W. Colfax Ave., Ste 200

South Bend, IN 46601-1634

- (b) The Permittee shall furnish to IDEM, OAM and the Northern Regional Office within a reasonable time, any information that IDEM, OAM and the Northern Regional Office 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.
- (c) Upon request, the Permittee shall also furnish to IDEM, OAM and the Northern Regional Office copies of records required to be kept by this permit. If the Permittee wishes to assert a claim of confidentiality over any of the furnished records, the Permittee must furnish such records to IDEM, OAM and the Northern Regional Office along with a claim of confidentiality under 326 IAC 17. If requested by IDEM, OAM, or the U.S. EPA, to furnish copies of requested records directly to U. S. EPA, and if the Permittee is making a claim of confidentiality regarding the furnished records, the Permittee must furnish such confidential records directly to the U.S. EPA along with a claim of confidentiality under 40 CFR 2, Subpart B.

B.9 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAM and the Northern Regional Office 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.10 Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit, except those specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act and is grounds for:
 - (1) Enforcement action;
 - (2) Permit termination, revocation and reissuance, or modification; and
 - (3) Denial of a permit renewal application.
- (b) 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.

B.11 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 under this permit shall contain certification by a 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, on the attached Certification Form, with each submittal.
- (c) An authorized individual is defined at 326 IAC 2-1.1-1(1).

B.12 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. The certification shall cover

the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than July 1 of each year to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Northern Regional Office
220 W. Colfax Ave., Ste 200
South Bend, IN 46601-1634

- (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, OAM, and the Northern Regional Office on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
- (1) The identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was based on continuous or intermittent data;
 - (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, OAM, and the Northern Regional Office may require to determine the compliance status of the source.

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

B.13 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 this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMP) within ninety (90) days after 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;
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If due to circumstances beyond its control, the PMP cannot be prepared and maintained within the

above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Northern Regional Office
220 W. Colfax Ave., Ste 200
South Bend, IN 46601-1634

- (b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that failure to implement the Preventive Maintenance Plan does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) PMP-s shall be submitted to IDEM, OAM, and the Northern Regional Office upon request and shall be subject to review and approval by IDEM, OAM, and the Northern Regional Office. IDEM, OAM, and the Northern Regional Office may require the Permittee to revise its Preventive Maintenance Plan whenever lack of proper maintenance causes or contributes to any violation.

B.14 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, OAM and the 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 Management, Compliance Section) or,
Telephone No.: 317-233-5674 (ask for Compliance Section)
Facsimile No.: 317-233-5967
Telephone No.: 219-245-4870 (Northern Regional Office)

Facsimile No.: 219-245-4877 (Northern Regional Office)

Failure to notify IDEM, OAM and the Northern Regional Office, by telephone or facsimile within four (4) daytime business hours after the beginning of the emergency, or after the emergency is discovered or reasonably should have been discovered, shall constitute a violation of 326 IAC 2-8 and any other applicable rules. [326 IAC 2-8-12(f)]

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted notice either in writing or facsimile, of the emergency to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Northern Regional Office
220 W. Colfax Ave., Ste 200
South Bend, IN 46601-1634

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 the 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) for sources subject to this rule after the effective date of this rule. This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
 - (e) IDEM, OAM and the Northern Regional Office, 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, OAM and the Northern Regional Office, by telephone or facsimile of an emergency lasting more than one (1) hour in compliance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.

- (g) Operations may continue during an emergency only if the following conditions are met:
- (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

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

B.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 Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Northern Regional Office
220 W. Colfax Ave., Ste 200
South Bend, IN 46601-1634

within ten (10) calendar days from the date of the discovery of the deviation.

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:
- (1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or
 - (2) An emergency as defined in 326 IAC 2-7-1(12); or
 - (3) Failure to implement elements of the Preventive Maintenance Plan unless such failure has caused or contributed to a deviation.
 - (4) Failure to make or record information required by the compliance monitoring provisions of Section D unless such failure exceeds 5% of the required data in any calendar quarter.

A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred is a deviation.

- (c) Written notification shall be submitted on the attached Emergency/Deviation Occurrence Reporting Form or its substantial equivalent. The notification does not need to be certified by the authorized individual as defined by 326 IAC 2-1.1-1(1).
- (d) Proper notice submittal under 326 IAC 2-7-16 satisfies the requirement of this subsection.

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 FESOP 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)]
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAM and the Northern Regional Office 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, OAM and the Northern Regional Office, 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, OAM and the Northern Regional Office, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAM and the Northern Regional Office, 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, OAM and the Northern Regional Office 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).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, IN 46206-6015

and

Northern Regional Office
220 W. Colfax Ave., Ste 200
South Bend, IN 46601-1634

- (b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]
- (1) A timely renewal application is one that is:
- (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
- (B) 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, OAM and the Northern Regional Office on or before the date it is due.
- (2) If IDEM, OAM and the Northern Regional Office upon receiving a timely and complete 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.
- (c) Right to Operate After Application for Renewal [326 IAC 2-8-9]
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, OAM and the Northern Regional Office 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, OAM and the Northern Regional Office, any additional information identified as needed to process the application.

B.18 Permit Amendment or Modification [326 IAC 2-8-10] [326 IAC 2-8-11.1]

- (a) The Permittee must comply with 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 Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Northern Regional Office
220 W. Colfax Ave., Ste 200
South Bend, IN 46601-1634

Any such application should be certified by the authorized individual as defined by 326 IAC 2-1.1-1(1) only if a certification is required by the terms of the applicable rule.

- (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]

- (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 2-1.1 has been obtained;
- (3) The changes do not result in emissions which exceed the emissions allowable under 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 Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Northern Regional Office
220 W. Colfax Ave., Ste 200
South Bend, IN 46601-1634

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 which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-8-15(b) through (d) and makes such records available, upon reasonable request, to public review.

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

- (2) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-8-15(a) and the following additional conditions:

- (1) A brief description of the change within the source;
- (2) The date on which the change will occur;
- (3) Any change in emissions; and
- (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted by the Permittee does not require the certification by the Authorized individual@ as defined by 326 IAC 2-1.1-1.

- (c) Emission Trades [326 IAC 2-8-15(c)]
The Permittee may trade increases and decreases in emissions in 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).
- (d) 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, OAM or U.S. EPA is required.
- (e) 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 Construction Permit Requirement [326 IAC 2]

A modification, construction, or reconstruction shall be approved if required by and in accordance with the applicable provisions of 326 IAC 2.

B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)]

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, OAM, the Northern Regional Office, 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) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.
[326 IAC 2-8-5(a)(4)]

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 Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Northern Regional Office
220 W. Colfax Ave., Ste 200
South Bend, IN 46601-1634

The application which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-11(b)(3)]

B.23 Annual Fee Payment [326 IAC 2-8-4(6)][326 IAC 2-8-16]

- (a) The Permittee shall pay annual fees to IDEM, OAM, within thirty (30) calendar days of receipt of a billing. If the Permittee does not receive a bill from IDEM, OAM 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 317-233-0425 (ask for OAM, Technical Support and Modeling Section), to determine the appropriate permit fee.

B.24 Advanced Source Modification Approval [326 IAC 2-8-4(11)]

The requirements to obtain a permit revision under 326 IAC 2-8-11.1 are satisfied by this permit for the proposed emission units, control equipment or insignificant activities in Sections A.2 and A.3 if such modifications occur during the term of this permit.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

C.1 Overall Source Limit [326 IAC 2-8]

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

- (a) Pursuant to 326 IAC 2-8:
- (1) The potential to emit any regulated pollutant from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period.
 - (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
 - (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.
- (b) 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.
- (c) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), opacity shall meet the following, unless otherwise stated in 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.3 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. 326 IAC 4-1-3(a)(2)(A) and (B) are not federally enforceable.

C.4 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. The provisions of 326 IAC 9-1-2 are not federally

enforceable.

C.5 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). 326 IAC 6-4-2(4) is not federally enforceable.

C.6 Operation of Equipment [326 IAC 2-8-5(a)(4)]

Except as otherwise provided in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.

C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61.140]

- (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 Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Northern Regional Office
220 W. Colfax Ave., Ste 200
South Bend, IN 46601-1634

The notifications do not require a certification by the "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 14-10-4 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) 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. The requirement that the inspector be accredited is federally enforceable.

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

C.8 Performance Testing [326 IAC 3-6]

- (1) 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, OAM.

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 Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Northern Regional Office
220 W. Colfax Ave., Ste 200
South Bend, IN 46601-1634

no later than thirty-five (35) days prior to the intended test date. The Permittee shall submit a notice of the actual test date to the above address so that it is received at least two weeks prior to the test date.

- (b) All test reports must be received by IDEM, OAM and the Northern Regional Office within forty-five (45) days after the completion of the testing. An extension may be granted by the IDEM, OAM and the Northern Regional Office, if the source submits to IDEM, OAM, a reasonable written explanation within five (5) days prior to the end of the initial forty-five (45) day period.

The documentation submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

C.9 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]

Compliance with applicable requirements shall be documented as required by this permit. All

monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. 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 Data Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Northern Regional Office
220 W. Colfax Ave., Ste 200
South Bend, IN 46601-1634

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 the ~~A~~authorized individual~~@~~ as defined by 326 IAC 2-1.1-1(1).

C.10 Maintenance of Monitoring Equipment [326 IAC 2-8-4(3)(A)(iii)]

- (a) In the event that a breakdown of the monitoring equipment occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem. To the extent practicable, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less frequent than required in Section D of this permit until such time as the monitoring equipment is back in operation. In the case of continuous monitoring, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less than one (1) hour until such time as the continuous monitor is back in operation.
- (b) The Permittee shall install, calibrate, quality assure, maintain, and operate all necessary monitors and related equipment. In addition, prompt corrective action shall be initiated whenever indicated.

C.11 Monitoring Methods [326 IAC 3]

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

C.12 Pressure Gauge Specifications

Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ("2%) of full scale reading.

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

C.13 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68.215]

If a regulated substance, subject to 40 CFR 68, is present at a source in more than a threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall:

- (a) Submit:
- (1) A compliance schedule for meeting the requirements of 40 CFR 68 by the date provided in 40 CFR 68.10(a); or
 - (2) As a part of the compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP); and
 - (3) A verification to IDEM, OAM and the Northern Regional Office that a RMP or a revised plan was prepared and submitted as required by 40 CFR 68.
- (b) Provide annual certification to IDEM, OAM and the Northern Regional Office that the Risk Management Plan is being properly implemented.

All documents submitted pursuant to this condition shall include the certification by the authorized individual as defined by 326 IAC 2-1.1-1(1).

C.14 Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 2-8-4][326 IAC 2-8-5]
[326 IAC 1-6]

- (a) The Permittee is required to implement a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable requirements. This compliance monitoring plan is comprised of:
- (1) This condition;
 - (2) The Compliance Determination Requirements in Section D of this permit;
 - (3) The Compliance Monitoring Requirements in Section D of this permit;
 - (4) The Record Keeping and Reporting Requirements in Section C (Monitoring Data Availability, General Record Keeping Requirements, and General Reporting Requirements) and in Section D of this permit; and
 - (5) A Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. CRP-s shall be submitted to IDEM, OAM and the Northern Regional Office upon request and shall be subject to review and approval by IDEM, OAM and the Northern Regional Office. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee and maintained on site, and is comprised of :
 - (A) Response steps that will be implemented in the event that compliance related information indicates that a response step is needed pursuant to the requirements of Section D of this permit; and
 - (B) A time schedule for taking such response steps including a schedule for devising additional response steps for situations that may not have been predicted.
- (b) For each compliance monitoring condition of this permit, appropriate response steps shall be taken when indicated by the provisions of that compliance monitoring condition. Failure to perform the actions detailed in the compliance monitoring conditions or failure to take the response steps within the time prescribed in the Compliance Response Plan, shall constitute a violation of the permit unless taking the response steps set forth in the

Compliance Response Plan would be unreasonable.

- (c) After investigating the reason for the excursion, the Permittee is excused from taking further response steps for any of the following reasons:
- (1) The monitoring equipment malfunctioned, giving a false reading. This shall be an excuse from taking further response steps providing that prompt action was taken to correct the monitoring equipment.
 - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied or;
 - (3) An automatic measurement was taken when the process was not operating; or
 - (4) The process has already returned to operating within Anormal@parameters and no response steps are required.
- (d) Records shall be kept of all instances in which the compliance related information was not met and of all response steps taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.

C.15 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 corrective actions. The Permittee shall submit a description of these corrective actions to IDEM, OAM, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize emissions from the affected facility while the corrective actions are being implemented. IDEM, OAM shall notify the Permittee within thirty (30) days, if the corrective actions taken are deficient. The Permittee shall submit a description of additional corrective actions taken to IDEM, OAM within thirty (30) days of receipt of the notice of deficiency. IDEM, OAM reserves the authority to use enforcement activities to resolve noncompliant stack tests.
- (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, OAM that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAM may extend the retesting deadline. Failure of the second test to demonstrate compliance with the appropriate permit conditions may be grounds for immediate revocation of the permit to operate the affected facility.

The documents submitted pursuant to this condition do not require the certification by the Aauthorized individual@as defined by 326 IAC 2-1.1-1(1).

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

C.16 Monitoring Data Availability

- (a) With the exception of performance tests conducted in accordance with Section C- Performance Testing all observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions.
- (b) As an alternative to the observations, sampling, maintenance procedures, and record

keeping of subsection (a) above, when the equipment listed in Section D of this permit is not operating, the Permittee shall either record the fact that the equipment is shut down or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this permit.

- (c) If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality.
- (d) If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded.
- (e) At its discretion, IDEM and the Northern Regional Office may excuse such failure providing adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.
- (f) Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements in (a) above.

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

- (a) Records of all required monitoring data and support information 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 kept at the source location for a minimum of three (3) years and available upon the request of an IDEM, OAM and the Northern Regional Office representative. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner or the Northern Regional Office makes a written request for records to the Permittee, the Permittee shall furnish the records to the Commissioner or the Northern Regional Office within a reasonable time.
- (b) Records of required monitoring information shall include, where applicable:
 - (1) The date, place, and time of sampling or measurements;
 - (2) The dates analyses were performed;
 - (3) The company or entity performing the analyses;
 - (4) The analytic techniques or methods used;
 - (5) The results of such analyses; and
 - (6) The operating conditions existing at the time of sampling or measurement.
- (c) Support information shall include, where applicable:
 - (1) Copies of all reports required by this permit;
 - (2) All original strip chart recordings for continuous monitoring instrumentation;
 - (3) All calibration and maintenance records;
 - (4) Records of preventive maintenance shall be sufficient to demonstrate that failure to implement the Preventive Maintenance Plan did not cause or contribute to a

violation of any limitation on emissions or potential to emit. To be relied upon subsequent to any such violation, these records may include, but are not limited to: work orders, parts inventories, and operator's standard operating procedures. Records of response steps taken shall indicate whether the response steps were performed in accordance with the Compliance Response Plan required by Section C - Compliance Monitoring Plan - Failure to take Response Steps, of this permit, and whether a deviation from a permit condition was reported. All records shall briefly describe what maintenance and response steps were taken and indicate who performed the tasks.

- (d) All record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

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

- (a) To affirm that the source has met all the compliance monitoring requirements stated in this permit the source shall submit a Quarterly Compliance Monitoring Report. Any deviation from the requirements and the date(s) of each deviation must be reported. The Compliance Monitoring Report shall include the certification by the Authorized individual[®] as defined by 326 IAC 2-1.1-1(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 Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Northern Regional Office
220 W. Colfax Ave., Ste 200
South Bend, IN 46601-1634

- (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, OAM and the Northern Regional Office on or before the date it is due.
- (d) Unless otherwise specified in this permit, any quarterly report shall be submitted within thirty (30) days of the end of the reporting period. The reports do not require the certification by the Authorized individual[®] as defined by 326 IAC 2-1.1-1(1).
- (e) All instances of deviations as described in Section B- Deviations from Permit Requirements Conditions must be clearly identified in such reports. The Emergency/Deviation Occurrence Report does not require the certification by the Authorized individual[®] as defined by 326 IAC 2-1.1-1(1).
- (f) Any corrective actions or response steps taken as a result of each deviation must be clearly identified in such reports.
- (g) The first report shall cover the period commencing on the date of issuance of this permit

and ending on the last day of the reporting period.

Stratospheric Ozone Protection

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

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with 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) 328 pound/minute Goff shot blasting system, identified as no. 1, with dust collector,
- (b) one (1) 1,500 pound/minute Goff shot blasting unit, identified as no. 2, with dust collector exhausting inside the building, and
- (c) one (1) 1,500 pound/minute Goff shot blasting unit, identified as no. 3, with dust collector exhausting inside the building.

(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 (PM) [326 IAC 6-3-2(c)]

The PM from the Goff shot blast units nos. 1, 2 and 3 shall not exceed the pound per hour emission rate established as E in the following formulas:

$$E = 4.10P^{0.67}, \text{ below } 60,000 \text{ lbs/hr (30 tons/hour) of process weight;}$$

$$E = 55.0P^{0.11} - 40, \text{ over } 60,000 \text{ lbs/hr (30 tons/hour) of process weight.}$$

Goff shot blast unit no. 1: 19.0 lb PM/hr

Goff shot blast unit no. 2: 43.6 lb PM/hr

Goff shot blast unit no. 3: 43.6 lb PM/hr

D.1.2 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 this facility and any control devices.

D.1.3 Particulate Matter

PM₁₀ emissions from the shot blasting operations shall not exceed 94 tons per year. This satisfies the requirements of 326 IAC 2-8.

Compliance Determination Requirements

D.1.4 Testing Requirements [326 IAC 2-8-5(a)(1), (4)][326 IAC 2-1.1-11]

The Permittee is not required to test this facility by this permit. However, IDEM may require compliance testing when necessary to determine if the facility is in compliance. If testing is required by IDEM or the Northern Regional Office, compliance with the PM limit specified in Condition D.1.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

D.1.5 Particulate Matter (PM)

PM control shall be in operation at all times when the three (3) Goff shot blast units are in operation.

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

D.1.6 Parametric Monitoring

The Permittee shall record the total static pressure drop across the three (3) dust collectors used in conjunction with the shot blasting process, at least once weekly when the shot blasting process

is in operation. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the dust collectors shall be maintained within the range of 2.0 and 6.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM, OAM and the Northern Regional Office and shall be calibrated at least once every six (6) months.

D.1.7 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the shot blasting operation when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting indoors. All defective bags shall be replaced.

D.1.8 Broken or Failed Bag Detection

In the event that bag failure has been observed:

- (a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. 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 single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have 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).

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

D.1.9 Record Keeping Requirements

- a) To document compliance with Condition D.1.1 and D.1.5, the Permittee shall maintain records of daily visible emission notations of the shot blasting unit's stack exhaust.
- (b) To document compliance with Condition D.1.5, the Permittee shall maintain the following:
 - (1) Weekly records of the following operational parameters during normal operation:
 - (A) Inlet and outlet differential static pressure; and
 - (B) Cleaning cycle: frequency and differential pressure.
 - (2) Documentation of all response steps implemented, per event .
 - (3) Operation and preventive maintenance logs, including work purchases orders, shall be maintained.

- (4) Quality Assurance/Quality Control (QA/QC) procedures.
 - (5) Operator standard operating procedures (SOP).
 - (6) Manufacturer's specifications or its equivalent.
 - (7) Equipment "troubleshooting" contingency plan.
 - (8) Documentation of the dates vents are redirected.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.10 Reporting Requirements

Any deviations shall be reported in accordance with Condition B.15 and summarized in the annual certification submitted.

SECTION D.2

FACILITY OPERATION CONDITIONS

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

- (a) two (2) 11.27 MMBtu/hr natural gas fired make-up units,
- (b) Air make-up unit no. 4 rated at 11.275 MMBtu/hr,
- (c) Air make-up unit no. 5 rated at 11.275 MMBtu/hr, and
- (d) Air make-up unit no. 6 rated at 11.275 MMBtu/hr.

(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)]

There are no Emission Limitations and Standards applicable to these facilities.

Compliance Determination Requirements

There are no Compliance Determination Requirements applicable to these facilities.

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

There are no Compliance Monitoring Requirements applicable to these facilities.

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

There are no Record Keeping or Reporting Requirements applicable to these facilities.

SECTION D.3

FACILITY OPERATION CONDITIONS

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

- (a) five (5) 2.25 MMBtu/hr natural gas fired 0.75 ton/hr modern reverbatory furnaces,
- (b) three (3) 1500 ton die casting machines,
- (c) two (2) 350 series UBE HVSC die casting machines,
- (d) five (5) trim presses,
- (e) 0.150 MMBtu/hr natural gas fired heater,
- (f) two (2) 0.090 MMBtu/hr natural gas fired HVAC heaters,
- (g) 0.180 MMBtu/hr natural gas fired heater,
- (h) 0.120 MMBtu/hr natural gas fired heater,
- (i) 6.574 MMBtu/hr natural gas fired make-up unit,
- (j) 0.145 MMBtu/hr natural gas fired unit,
- (k) eleven (11) aluminum melting furnaces/die cast cells with seven (7), identified as 6, 7, 8, 13, 14, 15, and 16, rated at 2.4 MMBtu/hr and four (4), identified as 9, 10, 11, and 12, rated at 3.0 MMBtu/hr exhausting to stacks GV-6, 7, 8, 9, 10, 11, 12, 13, 14, 15, and 16,
- (l) three (3) solution furnaces each rated at 4.0 MMBtu/hr exhausting to stacks SF-1, 2 and 3,
- (m) one (1) quench tank heater rated at 2.0 MMBtu/hr exhausting inside the building,
- (n) seven (7) age ovens, identified as nos. 1 – 7, each rated at 2.4 MMBtu/hr exhausting to stacks AO-1, 2, 3, and 4,
- (o) one (1) parts washer heater rated at 1.0 MMBtu/hr exhausting to stack W-1, and
- (p) one (1) waste water evaporator heater rated at 0.395 MMBtu/hr exhausting to stack E-1.

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

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

D.3.1 Particulate Matter (PM) [326 IAC 6-3-2(c)]

Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the five (5) trim presses shall not exceed allowable PM emission rates of 3.4 lbs/hr based on the following equations:

$$E = 4.10P^{0.67}, \text{ below } 60,000 \text{ lbs/hr (30 tons per hour) of process weight.}$$

Compliance Determination Requirement

D.3.2 Testing Requirements [326 IAC 2-8-5(a)(1), (4)][326 IAC 2-1.1-11]

The Permittee is not required to test this facility by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the PM limit specified in Conditions D.3.1 and D.3.2 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

SECTION D.4 FACILITY CONDITIONS

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

- (a) one (1) 1,500 pound/minute Goff shot blasting unit, identified as no. 2, with dust collector exhausting inside the building,
- (b) one (1) 1,500 pound/minute Goff shot blasting unit, identified as no. 3, with dust collector exhausting inside the building,
- (c) Air make-up unit no. 4 rated at 11.275 MMBtu/hr,
- (d) Air make-up unit no. 5 rated at 11.275 MMBtu/hr,
- (e) Air make-up unit no. 6 rated at 11.275 MMBtu/hr.
- (f) eleven (11) aluminum melting furnaces/die cast cells with seven (7), identified as 6, 7, 8, 13, 14, 15, and 16, rated at 2.4 MMBtu/hr and four (4), identified as 9, 10, 11, and 12, rated at 3.0 MMBtu/hr exhausting to stacks GV-6, 7, 8, 9, 10, 11, 12, 13, 14, 15, and 16,
- (g) three (3) solution furnaces each rated at 4.0 MMBtu/hr exhausting to stacks SF-1, 2 and 3,
- (h) one (1) quench tank heater rated at 2.0 MMBtu/hr exhausting inside the building,
- (i) seven (7) age ovens, identified as nos. 1 – 7, each rated at 2.4 MMBtu/hr exhausting to stacks AO-1, 2, 3, and 4,
- (j) one (1) parts washer heater rated at 1.0 MMBtu/hr exhausting to stack W-1, and
- (k) one (1) waste water evaporator heater rated at 0.395 MMBtu/hr exhausting to stack E-1.

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

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2-1 AND 326 IAC 2-8-11.1, WITH CONDITIONS LISTED BELOW.

General Construction Conditions

D.4.1 Permit No Defense [IC 13]

This permit to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

D.4.2 Effective Date of the Permit [IC13-15-5-3]

Pursuant to IC 13-15-5-3, this section of this permit becomes effective upon its issuance.

D.4.3 Definitions

Terms in this section of this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, any applicable definitions found in IC 13-11, 326 IAC 1-2, and 326 IAC 2-1.1-1 shall prevail.

D.4.4 Revocation of Permits [326 2-1.1-9(5)]

Pursuant to 326 IAC 2-1.1-9(5)(Revocation of Permits), the Commissioner may revoke this section of the approved permit if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

D.4.5 Modification to Permit [326 IAC 2]

All requirements of these construction conditions shall remain in effect unless modified in a manner consistent with procedures established for modifications of construction permits pursuant to 326 IAC 2 (Permit Review Rules).

First Time Operation Permit

D.4.6 Operating Permit [326 IAC 2-1-4]

This documents shall also become the first-time operation permit for the facilities under this section of this permit, pursuant to 326 IAC 2-1-4 (Operating Permits) when, prior to start of operation, the following requirements are met:

- (a) The attached affidavit of construction shall be submitted to:

Indiana Department of Environmental Management
Permit Administration & Development Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Northern Regional Office
220 W. Colfax Ave., Ste 200
South Bend, IN 46601-1634

verifying that the facilities were constructed as proposed in the application. The facilities covered in this section of this permit may begin operating in the date the Affidavit of Construction is postmarked or hand delivered to IDEM and Northern Regional Office.

- (b) If construction is completed in phases; i.e., the entire construction is not done continuously, a separate affidavit must be submitted for each phase of construction. Any permit conditions associated with operation start up dates such as stack testing for New Source Performance Standards (NSPS) shall be applicable to each individual phase.
- (c) The Permittee shall receive an Operation Permit Validation Letter from the Chief of the Permit Administration & Development Section and attach it to this permit.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION
and
Northern Regional Office**

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

Source Name: Contech Division, SPX Corporation
Source Address: 5 Arnolt Drive, Pierceton, IN 46562
Mailing Address: P.O. Box 710, Pierceton, IN 46562-0710
FESOP No.: F085-11548-00079

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:

- 9 Annual Compliance Certification Letter
- 9 Test Result (specify) _____
- 9 Report (specify) _____
- 9 Notification (specify) _____
- 9 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 MANAGEMENT
COMPLIANCE DATA SECTION
P.O. Box 6015
100 North Senate Avenue
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-5967**

**Northern Regional Office
220 W. Colfax Ave., Ste 200
South Bend, IN 46601-1634**

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

Source Name: Contech Division, SPX Corporation
Source Address: 5 Arnolt Drive, Pierceton, IN 46562
Mailing Address: P.O. Box 710, Pierceton, IN 46562-0710
FESOP No.: F085-11548-00079

This form consists of 2 pages

Page 1 of 2

Check either No. 1 or No.2

9 1. This is an emergency as defined in 326 IAC 2-7-1(12)
CThe Permittee must notify the Office of Air Management (OAM), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and
CThe Permittee must submit notice in writing or by facsimile within two (2) days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16

9 2. This is a deviation, reportable per 326 IAC 2-8-4(3)(C)
CThe Permittee must submit notice in writing within ten (10) calendar days

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/Deviation:

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

Page 2 of 2

Describe the cause of the Emergency/Deviation:
Date/Time Emergency/Deviation started:
Date/Time Emergency/Deviation was corrected:
Was the facility being properly operated at the time of the emergency/deviation? 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/deviation:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____
Title / Position: _____
Date: _____
Phone: _____

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION
and
Northern Regional Office**

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

Source Name: Contech Division, SPX Corporation
Source Address: 5 Arnolt Drive, Pierceton, IN 46562
Mailing Address: P.O. Box 710, Pierceton, IN 46562-0710
FESOP No.: F085-11548-00079

Months: _____ to _____ Year: _____

This report is an affirmation that the source has met all the compliance monitoring requirements stated in this permit. This report shall be submitted quarterly. Any deviation from the compliance monitoring requirements and the date(s) of each deviation must be reported. Additional pages may be attached if necessary. This form can be supplemented by attaching the Emergency/Deviation Occurrence Report. 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.

Compliance Monitoring Requirement (eg. Permit Condition D.1.3)	Number of Deviations	Date of each Deviation

Form Completed By: _____
Title/Position: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

Mail to: Permit Administration & Development Section
Office Of Air Management
100 North Senate Avenue
P. O. Box 6015
Indianapolis, Indiana 46206-6015

Contech Division, SPX Corp.
P.O. Box 710
Pierceton, Indiana 46562

Affidavit of Construction

I, _____, being duly sworn upon my oath, depose and say:
(Name of the Authorized Representative)

1. I live in _____ County, Indiana and being of sound mind and over twenty-one (21) years of age, I am competent to give this affidavit.
2. I hold the position of _____ for _____.
(Title) (Company Name)
3. By virtue of my position with _____, I have personal
(Company Name)
knowledge of the representations contained in this affidavit and am authorized to make these representations on behalf of _____.
(Company Name)
4. I hereby certify that Contech Division, SPX Corp., 5 Arnolt Dr., Pierceton, Indiana, 46562, has constructed the shot blasting unit and natural gas fired units in conformity with the requirements and intent of the construction permit application received by the Office of Air Management on November 15, 1999 and as permitted pursuant to FESOP No. F-085-11548, Plant ID No. 085-00079 issued on _____.
5. Additional natural gas fired units and a shot blasting unit were constructed as described in the FESOP No. F-085-11548 and were not made in accordance with the construction permit.

Further Affiant said not.

I affirm under penalties of perjury that the representations contained in this affidavit are true, to the best of my information and belief.

Signature_____

Date_____

STATE OF INDIANA)
)SS

COUNTY OF _____)

Subscribed and sworn to me, a notary public in and for _____ County and State of Indiana on this _____ day of _____, 20 _____.

My Commission expires:_____

Signature_____

Name (typed or printed)_____

Indiana Department of Environmental Management Office of Air Management

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

Source Name: Contech Division, SPX Corporation
Source Location: 5 Arnolt Drive, Pierceton, IN 46562
County: Kosciusko
SIC Code: 3363
Operation Permit No.: F085-11548-00079
Permit Reviewer: Daniel Harper

On February 1, 2000, the Office of Air Management (OAM) had a notice published in the Times Union, Warsaw, Indiana, stating that Contech Division, SPX Corp. had applied for a Federally Enforceable State Operating Permit (FESOP) to operate an aluminum die casting and shot blasting operation with dust collectors as control. The notice also stated that OAM 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. The OAM has decided to make the following revisions to the permit (bolded language has been added, the language with a line through it has been deleted). The Table of Contents has been modified to reflect these changes.

On February 29, 2000, TRC Environmental, on behalf of Contech Division, SPX Corporation, submitted comments on the proposed FESOP and Technical Support Document. The summary of the comments is as follows:

Draft FESOP:

Comment 1:

Section C.13: The requirements of 326 IAC 1-5-2 (Emergency Reduction Plans) apply only to sources with the potential to emit more than 100 tons per year of any criteria pollutant, more than 10 tons per year of any one HAP, or more than 25 tons per year of combined HAPs. After this permit is issued, emissions from the facility will not exceed any of these criteria, and therefore, this rule does not apply to the source.

Response 1:

OAM agrees that the potential to emit after limits is less than 100 tons per year. Therefore, Condition C.13 has been removed.

Comment 2:

Section D.1.1: The requirement that the dust collectors operate whenever the shot blast units are operating is more stringent than 326 IAC 6-3-2 (Particulate Matter Emissions from Process Operations). Therefore, reference to this rule is superfluous, and Section D.1.1 should be removed.

Response 2:

Section D.1.1 states the hourly emissions limitations from the shot blast units. The limitations were calculated using 326 IAC 6-3-2. The shot blast units are subject to 326 IAC 6-3-2. The use of dust collectors is a means of showing compliance to the rule; it is not more stringent than the rule. Therefore, Section D.1.1 shall remain in the permit.

Comment 3:

Section D.1.9(b): This item requires daily records of inlet and outlet differential pressure and cleaning cycle frequency and differential pressure, which conflicts with Section D.1.6. Deletion of the word "Daily" will correct this conflict.

Response 3:

The daily records have been changed to be consistent with the weekly monitoring.

D.1.9 Record Keeping Requirements

- (a) To document compliance with Condition D.1.1 and D.1.5, the Permittee shall maintain records of daily visible emission notations of the shot blasting unit's stack exhaust.
- (b) To document compliance with Condition D.1.5, the Permittee shall maintain the following:
 - (1) ~~Daily~~ **Weekly** records of the following operational parameters during normal operation:
 - (A) Inlet and outlet differential static pressure; and
 - (B) Cleaning cycle: frequency and differential pressure.

Comment 4:

Section D.2: The units listed in this section are air make-up units, i.e., space heaters. These units consume only natural gas. Proposed record keeping and reporting requirements associated with these emission units have no value. Furthermore, the certification form discusses the wrong type of unit and should be eliminated.

Response 4:

OAM agrees, thus, Conditions D.2.1 and D.2.2 have been removed and the Natural Gas Fired Boiler Certification has been removed.

Technical Support Document:

There are no changes to the TSD after the public notice period. However, these revisions are noted here in the TSD addendum.

Comment 5:

Potential to Emit: IDEM cites the definition of Potential to Emit as "the maximum capacity of a stationary source to emit any air pollutant...including any...restrictions...if the limitation is enforceable by the US EPA." The potential to emit of the facility is then listed as 669.2 ton/yr of PM/PM₁₀, 0.4 ton/yr SO₂, 4.3 ton/yr VOC, 49.9 ton/yr CO, and 60.3 ton/yr NO_x. Please clarify that these rates represent the facility potential to emit, in the absence of Federally Enforceable conditions.

Response 5:

IDEM, OAM agrees that the potential to emit PM/PM₁₀ at a rate of 669.2 ton/yr, SO₂ at a rate of 0.4 ton/yr, VOC at a rate of 4.3 ton/yr, CO at a rate of 49.9 ton/yr, and NO_x at a rate of 60.3 ton/yr, are calculated without Federally Enforceable controls.

Comment 6:

Limited Potential to Emit: Continued use of undefined terms, such as “Limited Potential to Emit”, will lead to future confusion of issues. The emissions provided in the section entitled “Limited Potential to Emit” should be referred to as “Potential to Emit”; then no ambiguity will result.

The PM and PM₁₀ emissions in the Potential to Emit table are reversed. PM₁₀ emissions will always be less than or equal to PM emissions. In addition, slight errors exist in the values entered in the table. The emissions should read (corrections are in boldface):

Process/facility	Limited Potential to Emit (tons/year)						
	PM	PM-10	SO ₂	VOC	CO	NO _x	HAPs
Goff shot blast unit no. 1	<0.01	<0.01	0.0	0.0	0.0	0.0	0.0
Goff shot blast unit no. 2	0.8	0.8	0.0	0.0	0.0	0.0	0.0
Goff shot blast unit no. 3	0.8	0.8	0.0	0.0	0.0	0.0	0.0
five (5) 2.25 MMBtu/hr reverb furnaces	0.4	0.1	0.03	0.3	4.1	4.9	0.0
0.150 MMBtu/hr heater	<0.01	<0.01	<0.01	<0.01	0.1	0.1	0.0
two (2) 0.090 MMBtu/hr HVAC heaters	0.01	<0.01	<0.01	<0.01	0.1	0.1	0.0
0.180 MMBtu/hr heater	0.01	<0.01	<0.01	<0.01	0.1	0.1	0.0
0.120 MMBtu/hr heater	<0.01	<0.01	<0.01	<0.01	0.04	0.1	0.0
two (2) 11.27 MMBtu/hr make-up units	0.8	0.2	0.06	0.5	8.3	9.9	0.0
6.574 MMBtu/hr make-up unit	0.2	0.1	0.02	0.2	2.4	2.9	0.0
0.145 MMBtu/hr unit	<0.01	<0.01	<0.01	<0.01	0.1	0.1	0.0
seven (7) 2.4 MMBtu/hr aluminum melting furnaces	0.6	0.1	0.04	0.4	6.2	7.4	0.0
four (4) 3.0 MMBtu/hr aluminum melting furnaces	0.4	0.1	0.03	0.3	4.4	5.3	0.0
three (3) 4.0 MMBtu/hr solution furnaces	0.4	0.1	0.03	0.3	4.4	5.3	0.0
one (1) 2.0 MMBtu/hr quench	0.1	0.02	0.01	0.05	0.7	0.9	0.0

tank heater							
seven (7) 2.4 MMBtu/hr age ovens	0.6	0.1	0.04	0.4	6.2	7.4	0.0
one (1) 1.0 MMBtu/hr parts washer heater	0.03	0.01	<0.01	0.02	0.4	0.4	0.0
three (3) 11.275 MMBtu/hr air make-up units	1.1	0.3	0.09	0.8	12.4	14.8	0.0
one (1) 0.395 MMBtu/hr waste water evaporator heater	0.01	<0.01	<0.01	0.01	0.1	0.2	0.0
Total Emissions	6.3	2.7	0.4	3.3	50.0	59.9	0.0

Response 6:

IDEM, OAM states that the "Limited Potential to Emit" table lists the potential to emit, reflecting all limits.

The Limited Potential to Emit Table on page 4 of the TSD should have the PM emissions from the natural gas fired units equal to the PM-10 emissions. The original PM-10 emissions are correct but the PM emissions were incorrect because they quantified the filterable portions of the PM-10 only. Since PM emissions from natural gas fired units, on average, do not exceed one (1) micrometer in diameter, the PM emissions will be equal to PM-10 emissions.

Process/facility	Limited Potential to Emit (tons/year)						
	PM	PM-10	SO ₂	VOC	CO	NO _x	HAPs
Goff shot blast unit no. 1	<0.01	<0.01	0.0	0.0	0.0	0.0	0.0
Goff shot blast unit no. 2	0.8	0.8	0.0	0.0	0.0	0.0	0.0
Goff shot blast unit no. 3	0.8	0.8	0.0	0.0	0.0	0.0	0.0
five (5) 2.25 MMBtu/hr reverb furnaces	0.0 0.4	0.4	0.04 0.03	0.5 0.3	4.0 4.1	5.0 4.9	0.0
0.150 MMBtu/hr heater	0.0	0.0	0.0	0.0	0.1	0.1	0.0
two (2) 0.090 MMBtu/hr HVAC heaters	0.0	0.0	0.0	0.0	0.0 0.1	0.0 0.1	0.0
0.180 MMBtu/hr heater	0.0	0.0	0.0	0.0	0.1	0.1	0.0
0.120 MMBtu/hr heater	0.0	0.0	0.0	0.0	0.0	0.1	0.0
two (2) 11.27 MMBtu/hr make-up	0.2 0.8	0.8	0.04 0.06	0.6 0.5	8.2 8.3	9.8 9.9	0.0

units							
6.574 MMBtu/hr make-up unit	0.1 0.2	0.2	0.04 0.02	0.2	2.4	2.9	0.0
0.145 MMBtu/hr unit	0.0	0.0	0.04 0.0	0.0	0.1	0.1	0.0
seven (7) 2.4 MMBtu/hr aluminum melting furnaces	0.0 0.6	0.7 0.6	0.04 0.04	0.7 0.4	6.3 6.2	7.7 7.4	0.0
four (4) 3.0 MMBtu/hr aluminum melting furnaces	0.0 0.4	0.4	0.04 0.03	0.4 0.3	4.4	5.2 5.3	0.0
three (3) 4.0 MMBtu/hr solution furnaces	0.0 0.4	0.3 0.4	0.04 0.03	0.3	4.5 4.4	5.4 5.3	0.0
one (1) 2.0 MMBtu/hr quench tank heater	0.0 0.1	0.1	0.01	0.0	0.7	0.9	0.0
seven (7) 2.4 MMBtu/hr age ovens	0.0 0.6	0.7 0.6	0.04 0.04	0.7 0.4	6.3 6.2	7.7 7.4	0.0
one (1) 1.0 MMBtu/hr parts washer heater	0.0	0.0	0.0	0.0	0.4	0.4	0.0
three (3) 11.275 MMBtu/hr air make-up units	0.3 1.1	1.2 1.1	0.02 0.09	0.9 0.8	12.3 12.4	14.7 14.8	0.0
one (1) 0.395 MMBtu/hr waste water evaporator heater	0.0	0.0	0.0	0.0	0.1	0.2	0.0
Total Emissions	2.2 6.2	6.5 6.2	0.4	4.3 3.2	49.9 50.0	60.3 59.9	0.0

Comment 7:

State Rule Applicability – Shot Blasting Operations: The requirement that the dust collectors operate whenever the shot blast units are operating is more stringent than 326 IAC 6-3-2 (Particulate Matter Emissions from Process Operations). Therefore, reference to this rule is superfluous, and this section should be removed.

If the shot blast units were to be regulated pursuant to this rule, the process weight rate would not be the amount of shot used per hour. Due to the design of the shot blast machine and the nature of the shot (steel BBs), the process weight rate would be the amount of uncontrolled dust generated by the process (the shot blast rate multiplied by the PM emission factor of 0.004 lb PM/lb shot).

Response 7:

IDEM, OAM states that the use of dust collectors is a means of showing compliance with the limits established in the “Limited Potential to Emit” table. Pursuant to 326 IAC 1-2-59, the process weight rate is defined as “The total weight of all materials introduced into any source operation...”. Therefore, the amount of shot used per hour would be the process weight rate.

Comment 8:

Compliance Requirements: Item 1(b) states that the permittee must record the static pressure drop across the shot blaster dust collectors at least once daily and that the pressure drop should be maintained within the range of 3.0 to 6.0 inches of water. This is inconsistent with paragraph D.1.6 of the draft permit, which states that the permittee must record the pressure drop at least once per week and that it should be maintained within the range of 2.0 and 6.0 inches of water. Replacing the word "daily" in line 3 of item 1(b) with the word "weekly" and the number "3.0" in line 6 of item 1(b) with the number "2.0" will correct the inconsistency.

Response 8:

IDEM, OAM agrees that the pressure drop should be in the range of 2.0 to 6.0 inches of water instead of 3.0 to 6.0 inches of water as stated in the TSD. IDEM, OAM agrees that the pressure drop should be recorded weekly instead of daily as stated in the TSD.

**Indiana Department of Environmental Management
Office of Air Management
and Northern Regional Office**

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

Source Background and Description

Source Name: Contech Division, SPX Corporation
Source Location: 5 Arnolt Drive, Pierceton, IN 46562
County: Kosciusko
SIC Code: 3363
Operation Permit No.: F085-11548-00079
Permit Reviewer: Daniel Harper

The Office of Air Management (OAM) has reviewed a FESOP application from Contech Division, SPX Corporation relating to the operation of an aluminum die casting and shot blasting operation. There are no sand handling practices associated with this source and emissions from the casting operation are negligible.

Permitted Emission Units and Pollution Control Equipment

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

- (a) 328 pound/minute Goff shot blasting system, identified as no. 1, with dust collector,
- (b) two (2) 11.27 MMBtu/hr natural gas fired make-up units, and
- (c) 924 pound/minute Hunziker shot blasting system with dust collector which will be replaced by a 1,500 pound/minute Goff shot blast unit identified as no. 2.

Unpermitted Emission Units and Pollution Control Equipment

The source also consists of the following unpermitted facilities/units:

- (a) one (1) 1,500 pound/minute Goff shot blasting unit, identified as no. 2, with dust collector exhausting inside the building (installed and operating as of December 1999),
- (b) Air make-up unit no. 4 rated at 11.275 MMBtu/hr (installed and operating as of December 1999),
- (c) Air make-up unit no. 5 rated at 11.275 MMBtu/hr (installed as of December 1999), and
- (d) Air make-up unit no. 6 rated at 11.275 MMBtu/hr (installed as of December 1999).

New Emission Units and Pollution Control Equipment Receiving Prior Approval

The application includes information relating to the prior approval for the construction and operation of the following equipment pursuant to 326 IAC 2-8-4(11):

one (1) 1,500 pound/minute Goff shot blasting unit, identified as no. 3, with dust collector exhausting inside the building.

Insignificant Activities

This source has the following existing insignificant activities:

- (a) five (5) 2.25 MMBtu/hr natural gas fired 0.75 ton/hr modern reverbatory furnaces,
- (b) three (3) 1500 ton die casting machines,
- (c) two (2) 350 series UBE HVSC die casting machines,
- (d) five (5) trim presses,
- (e) 0.150 MMBtu/hr natural gas fired heater,
- (f) two (2) 0.090 MMBtu/hr natural gas fired HVAC heaters,
- (g) 0.180 MMBtu/hr natural gas fired heater,
- (h) 0.120 MMBtu/hr natural gas fired heater,
- (i) 6.574 MMBtu/hr natural gas fired make-up unit, and
- (j) 0.145 MMBtu/hr natural gas fired unit.

The source also has the following new insignificant activities:

- (k) eight (8) aluminum melting furnaces/die cast cells with five (5), identified as nos. 8, 13, 14, 15, and 16, rated at 2.4 MMBtu/hr and three (3), identified as nos. 10, 11, 12, rated at 3.0 MMBtu/hr exhausting to stacks GV-8, 10, 11, 12, 13, 14, 15 and 16,
- (l) three (3) solution furnaces each rated at 4.0 MMBtu/hr exhausting to stacks SF-1, 2 and 3,
- (m) one (1) quench tank heater rated at 2.0 MMBtu/hr exhausting inside the building,
- (n) six (6) age ovens, identified as nos. 2 – 7, each rated at 2.4 MMBtu/hr exhausting to stacks AO-1, 2, 3 and 4,
- (o) one (1) parts washer heater rated at 1.0 MMBtu/hr exhausting to stack W-1, and
- (p) one (1) waste water evaporator heater rated at 0.395 MMBtu/hr exhausting to stack E-1.

The source also consists of the following unpermitted insignificant facilities/units:

- (q) Age oven no. 1 rated at 2.4 MMBtu/hr exhausting to stack AO-1 (installed as of December 1999),

- (r) Furnace/Die Cast cell no. 6 rated at 2.4 MMBtu/hr exhausting to stack GV-6 (installed and operating as of December 1999),
- (s) Furnace/Die Cast cell no. 7 rated at 2.4 MMBtu/hr exhausting to stack GV-7 (installed and operating as of December 1999), and
- (t) Furnace/Die Cast cell no. 9 rated at 3.0 MMBtu/hr exhausting to stack GV-9 (installed and operating as of December 1999).

Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

- (a) CP 085-9189-00079 issued on December 31, 1997; and
- (b) CP 085-9333-00079 issued on March 27, 1998.

All conditions from previous approvals were incorporated into this FESOP.

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Commissioner that the FESOP 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 application for the purposes of this review was received on November 15, 1999.

Emission Calculations

See Appendix A of this document for detailed calculations.

Potential To Emit

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA.®

Pollutant	Potential To Emit (tons/year)
PM	669.2
PM-10	669.2
SO ₂	0.4
VOC	4.3
CO	49.9
NO _x	60.3

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of PM₁₀ are equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7. See Appendix A for detailed calculations (3 pages).

Actual Emissions

No previous emission data has been received from the source.

Limited Potential to Emit

The table below summarizes the total potential to emit, reflecting all limits, of the significant emission units.

Process/facility	Limited Potential to Emit (tons/year)						
	PM	PM-10	SO ₂	VOC	CO	NO _x	HAPs
Goff shot blast unit no. 1	<0.01	0.0	0.0	0.0	0.0	0.0	0.0
Goff shot blast unit no. 2	0.8	0.8	0.0	0.0	0.0	0.0	0.0
Goff shot blast unit no. 3	0.8	0.8	0.0	0.0	0.0	0.0	0.0
five (5) 2.25 MMBtu/hr reverb furnaces	0.0	0.5	0.01	0.5	4.0	5.0	0.0
0.150 MMBtu/hr heater	0.0	0.0	0.0	0.0	0.1	0.1	0.0
two (2) 0.090 MMBtu/hr HVAC heaters	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.180 MMBtu/hr heater	0.0	0.0	0.0	0.0	0.1	0.1	0.0
0.120 MMBtu/hr heater	0.0	0.0	0.0	0.0	0.0	0.1	0.0
two (2) 11.27 MMBtu/hr make-up units	0.2	0.8	0.01	0.6	8.2	9.8	0.0
6.574 MMBtu/hr make-up unit	0.1	0.2	0.01	0.2	2.4	2.9	0.0

0.145 MMBtu/hr unit	0.0	0.0	0.01	0.0	0.1	0.1	0.0
seven (7) 2.4 MMBtu/hr aluminum melting furnaces	0.0	0.7	0.01	0.7	6.3	7.7	0.0
four (4) 3.0 MMBtu/hr aluminum melting furnaces	0.0	0.4	0.01	0.4	4.4	5.2	0.0
three (3) 4.0 MMBtu/hr solution furnaces	0.0	0.3	0.01	0.3	4.5	5.4	0.0
one (1) 2.0 MMBtu/hr quench tank heater	0.0	0.1	0.01	0.0	0.7	0.9	0.0
seven (7) 2.4 MMBtu/hr age ovens	0.0	0.7	0.01	0.7	6.3	7.7	0.0
one (1) 1.0 MMBtu/hr parts washer heater	0.0	0.0	0.0	0.0	0.4	0.4	0.0
three (3) 11.275 MMBtu/hr air make-up units	0.3	1.2	0.02	0.9	12.3	14.7	0.0
one (1) 0.395 MMBtu/hr waste water evaporator heater	0.0	0.0	0.0	0.0	0.1	0.2	0.0
Total Emissions	2.2	6.5	0.4	4.3	49.9	60.3	0.0

County Attainment Status

The source is located in Kosciusko County.

Pollutant	Status
PM-10	attainment
SO ₂	attainment
NO ₂	attainment
Ozone	attainment
CO	attainment
Lead	attainment

Volatile organic compounds (VOC) and oxides of nitrogen (NO_x) are precursors for the formation of ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to the ozone standards. Kosciusko County has been designated as attainment or unclassifiable for ozone.

Federal Rule Applicability

- (a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this source.
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63) applicable to this source.

State Rule Applicability - Entire Source

326 IAC 2-8-4 (FESOP)

Pursuant to this rule, PM₁₀ emissions, after control, shall be limited to less than 100 tons per year. Therefore, the requirements of 326 IAC 2-7, do not apply.

326 IAC 5-1 (Visible Emissions Limitations)

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

- (a) Opacity shall not exceed an average of forty percent (40%) 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 – Shot Blasting Operations

326 IAC 6-3-2 (Process Operations)

The shot blasting operations are subject to 326 IAC 6-3, Particulate Emission Limitations. The particulate matter (PM) from the Goff shot blast units no. 1, 2 and 3 shall be limited by the equations and calculations listed below.

$E = 4.10P^{0.67}$, below 60,000 lbs/hr (30 tons/hour) of process weight;

$E = 55.0P^{0.11} - 40$, over 60,000 lbs/hr (30 tons/hour) of process weight.

where: E = rate of emission in lbs/hr and
P = process weight in tons/hr.

Goff shot blast unit no. 1: $P = (328 \text{ lb/min})(60 \text{ min/hr})(1 \text{ ton}/2000 \text{ lb}) = 9.84 \text{ ton/hr}$

Goff shot blast unit no. 2: $P = (1500 \text{ lb/min})(60 \text{ min/hr})(1 \text{ ton}/2000 \text{ lb}) = 45 \text{ ton/hr}$

Goff shot blast unit no. 3: $P = (1500 \text{ lb/min})(60 \text{ min/hr})(1 \text{ ton}/2000 \text{ lb}) = 45 \text{ ton/hr}$

Goff shot blast unit no. 1: $E = 4.1(9.84)^{0.67} = 19.0 \text{ lb PM/hr}$

Goff shot blast unit no. 2: $E = 55.0(45)^{0.11} - 40 = 43.6 \text{ lb PM/hr}$

Goff shot blast unit no. 3: $E = 55.0(45)^{0.11} - 40 = 43.6 \text{ lb PM/hr}$

The dust collectors shall be in operation at all times the shot blast units are in operation, in order to comply with this limit.

State Rule Applicability – Trim Presses

326 IAC 6-3-2 (Process Operations)

The particulate matter (PM) from the five (5) trim presses shall be limited by the equation calculations listed below.

$E = 4.10P^{0.67}$, below 60,000 lbs/hr (30 tons/hr) of process weight.

Trim press: $E = 4.10(0.75)^{0.67} = 3.4 \text{ lb PM/hr}$

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

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

1. The Goff shot blast systems no. 1, 2 and 3 have applicable compliance monitoring conditions as specified below:
 - (a) Daily visible emissions notations of the shot blasting stack exhaust shall be performed during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. 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. 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. 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. The Preventive Maintenance Plan for this unit shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.
 - (b) The Permittee shall record the total static pressure drop across the dust collectors controlling the Goff shot blasting systems no. 1, 2 and 3, at least once daily when the shot blasting systems are in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop across the dust collectors shall be maintained within the range of 3.0 to 6.0 inches of water or a range established during the latest stack test. The Preventive Maintenance Plan for this unit shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of the above mentioned range for any one reading.

These monitoring conditions are necessary because the dust collectors for the Goff shot blast units no. 1, 2 and 3 must operate properly to ensure compliance with 326 IAC 6-3 (Process Operations) and 326 IAC (FESOP).

Air Toxic Emissions

Indiana presently requests applicants to provide information on emissions of the 188 hazardous air pollutants (HAPs) set out in the Clean Air Act Amendments of 1990. These pollutants are either carcinogenic or otherwise considered toxic and are commonly used by industries. They are listed as air toxics on the Office of Air Management (OAM) FESOP Application Form GSD-08.

None of the listed air toxics will be emitted from this source.

Conclusion

The operation of this aluminum die casting and shot blasting operation shall be subject to the conditions of the attached proposed FESOP No.: F085-11548-00079.

Appendix A: Emissions Calculations

Natural Gas Combustion Only

MM BTU/HR <100

Small Industrial Boiler

Company Name: Contech Division, SPX Corp

Address City IN Zip: 5 Arnolt Dr., Pierceton, IN 46562

CP: F085-11548-00079

Pit ID: 085-00079

Reviewer: D. Harper

Date: 01/11/00

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

2.4

21.0

seven (7) aluminum melting furnaces/die cast cells, multiply the PTE by 7 to get the PTE for 7 units
calculations for all natural gas fired units use same methodology as below:

Pollutant

	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	0.6	100.0 **see below	5.5	84.0
Potential Emission in tons/yr	0.0	0.1	0.0	1.1	0.1	0.9

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

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

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

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

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

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

Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).

See page 2 for HAPs emissions calculations.

Appendix A: Emissions Calculations

Natural Gas Combustion Only

MM BTU/HR <100

Small Industrial Boiler

HAPs Emissions

Company Name: Contech Division, SPX Corp

Address City IN Zip: 5 Arnolt Dr., Pierceton, IN 46562

CP: F085-11548-00079

Plt ID: 085-00079

Reviewer: D. Harper

Date: 01/11/00

HAPs - Organics

	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	2.208E-05	1.261E-05	7.884E-04	1.892E-02	3.574E-05

HAPs - Metals

	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	5.256E-06	1.156E-05	1.472E-05	3.995E-06	2.208E-05

Methodology is the same as page 1.

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

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

Appendix A:	Emissions Calculations
	Shot Blast Units
Company Name:	Contech Division, SPX Corporation
Source Address:	5 Arnolt Dr., Pierceton, IN 46562
CP:	F085-11548-00079
Plt ID:	085-00079
Reviewer:	D. Harper
Date:	1/13/00

Basis:

- (a) Goff shot blast unit no. 1: blast rate = 328 lb/min
- (b) Goff shot blast units no. 2 & 3: blast rate = 1500 lb/min
- (c) Emission factor = 0.004 lb PM/lb abrasive (steel shot) from Stappa Alapco, Section 3 "Abrasive Blasting"
- (d) C = 90% (control efficiency for air wash separator on units no. 2 & 3 only which is an integral part of the process)

Methodology:

Potential emissions for particulate matter = (blast rate (lb/min))x(60 min/hr)x(emission factor (lb/lb))x(C)

Emissions:

Unit no. 1: PTE = 78.7 lb PM/hr
= 344.7 ton PM/yr

Unit no. 2: PTE = 36 lb PM/hr
= 157.7 ton PM/yr

Unit no. 3: PTE = 36 lb PM/hr
= 157.7 ton PM/yr

Total = 660.1 ton/yr