



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: November 18, 2009

RE: FCC (Adams), LLC / 001-28538-00064

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

Notice of Decision: Approval - Registration

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

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

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

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

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

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

Enclosures
FN-REGIS.dot 1/2/08



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REGISTRATION OFFICE OF AIR QUALITY

FCC (Adams), LLC
936 E Par Road
Berne, Indiana 46711

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

Registration No. 001-26137-00064	
Issued by: Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: June 5, 2008

First Registration Revision No. 001-28538-00064	
Issued by:  Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: November 18, 2009

SECTION A

SOURCE SUMMARY

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

A.1 General Information

The Registrant owns and operates a stationary clutch packs manufacturing plant.

Source Address:	936 East Parr Rd., Berne, Indiana, 46711
Mailing Address:	936 East Parr Rd., Berne, Indiana, 46711
General Source Phone Number:	(260) 589 - 8555
SIC Code:	3714
County Location:	Adams County
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Registration

A.2 Emission Units and Pollution Control Equipment Summary

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

Main Building Emission Units:

- (a) One (1) shot blasting unit, identified as SB-4, approved for construction in 2009, with a maximum glass bead based media capacity of 850 pounds per hour, controlled by bag filters and venting indoors.
- (b) Eight (8) parts washers, consisting of the following units:
 - (1) One (1) press washer, identified as W-1, constructed in 2006, using 1560 gallons of Kleen-Eze 305 solution per year;
 - (2) One (1) Deburr washer, identified as W-2, constructed in 2006, using 416 gallons of J and B 1097 solution per year;
 - (3) One (1) Hub washer, identified as W-3, constructed in 2006, using 520 gallons of J and B 1097 solution per year;
 - (4) One (1) Assembly washer (West), identified as W-4, constructed in 2006, using 1300 gallons of M-1 solution per year;
 - (5) One (1) RGW washer, identified as W-5, constructed in 2006, using 156 gallons of J and B 1097 solution per year;
 - (6) One (1) Flow Forming washer, identified as W-6, approved for construction in 2009, using 208 gallons of J and B solution per year; and
 - (7) One (1) Assembly washer (East), identified as W-7, approved for construction in 2009, using 540 gallons of M-1 solution per year; and
 - (8) One (1) Die Cleaning Machine, identified as W-8, approved for construction in 2009, using 68 gallons of Safety-Kleen Premium Solvent per year.
- (c) Fifteen (15) lathe machines, where coolant solution continuously flooding the machining interface, exhausting to the interior; with no particulate emissions and VOC emissions are determined at

100% flash off, consisting of the following units:

- (1) One (1) A-1 Lathe 1, identified as L-1, constructed in 2004, with a maximum production rate of 104.66 units per hour, using Seal Cool 3990 as a cutting coolant oil;
- (2) One (1) A-2 Lathe 2, identified as L-2, constructed in 2004, with a maximum production rate of 52.33 units per hour, using Seal Cool 3990 as a cutting coolant oil;
- (3) One (1) A-2 Lathe 3, identified as L-3, constructed in 2004, with a maximum production rate of 52.33 units per hour, using Seal Cool 3990 as a cutting coolant oil;
- (4) One (1) B Lathe 1, identified as L-4, constructed in 2004, with a maximum production rate of 104.66 units per hour, using Seal Cool 3990 as a cutting coolant oil;
- (5) One (1) RWG Lathe 1, identified as L-5, constructed in 2006, with a maximum production rate of 78.50 units per hour, using Seal Cool 3990 as a cutting coolant oil;
- (6) One (1) RWG Lathe 2, identified as L-6, constructed in 2006, with a maximum production rate of 78.5 units per hour, using Seal Cool 3990 as a cutting coolant oil;
- (7) One (1) A-1 Lathe 4, identified as L-7, constructed in 2008, with a maximum production rate of 104.66 units per hour, using Seal Cool 3990 as a cutting coolant oil;
- (8) One (1) A-2 Lathe 5, identified as L-8, constructed in 2008, with a maximum production rate of 52.33 units per hour, using Seal Cool 3990 as a cutting coolant oil;
- (9) One (1) B Lathe 2, identified as L-9, constructed in 2008, with a maximum production rate of 104.66 units per hour, using Seal Cool 3990 as a cutting coolant oil;
- (10) One (1) OP0 Flow Form Lathe, identified as L-10, approved for construction in 2009, with a maximum production rate of 60.0 units per hour, using Seal Cool 3990 as a cutting coolant oil;
- (11) One (1) OP10 Flow Form Lathe, identified as L-11, approved for construction in 2009, with a maximum production rate of 60.0 units per hour, using Seal Cool 3990 as a cutting coolant oil;
- (12) One (1) OP20 Flow Form Lathe, identified as L-12, approved for construction in 2009, with a maximum production rate of 60.0 units per hour, using Seal Cool 3990 as a cutting coolant oil;
- (13) One (1) OP30 Flow Form Lathe, identified as L-13, approved for construction in 2009, with a maximum production rate of 60.0 units per hour, using Seal Cool 3990 as a cutting coolant oil;
- (14) One (1) OP20 Flow Form Lathe 2, identified as L-14, approved for construction in 2009, with a maximum production rate of 60.0 units per hour, using Seal Cool 3990 as a cutting coolant oil;
- (15) One (1) OP30 Flow Form Lathe 2, identified as L-15, approved for construction in 2009, with a maximum production rate of 60.0 units per hour, using Seal Cool 3990 as a cutting coolant oil;

- (d) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, including:
- (1) Nine (9) natural gas fired rooftop heaters, identified as RTU-1 to RTU-9, each constructed in 2004 rated between 0.2 and 0.5 MMBtu/hr, with a combined capacity rating of 3.335 MMBtu/hr, and exhaust indoors.
 - (2) Four (4) natural gas propeller unit heaters, identified as UH-1 to UH-4, each constructed in 2004, rated between 0.075 and 0.12 MMBtu/hr, with a combined capacity rating of 0.345 MMBtu/hr, and exhaust indoors.
 - (3) One (1) 0.4 MMBtu/hr direct-fired natural gas air make-up unit, identified as AMU-1, constructed in 2007.
 - (4) One (1) natural gas-fired heat exchanger, identified as HE-1, approved for construction in 2009, with a maximum heat input capacity of 0.12 MMBtu/hr.
 - (5) One (1) 1.5 MMBtu/hr natural gas water evaporator heater, identified as EH-1, constructed in 2004.

Die Cast Building Emission Units:

- (e) Four (4) natural gas-fired aluminum melting furnaces, including:
- (1) MF-1, constructed in 2007, with a maximum capacity of 500 pounds of aluminum per hour, with a maximum heat input capacity of 0.5 MMBtu/hr, exhausting to stack S-6.
 - (2) MF-2, constructed in 2007, with a maximum capacity of 500 pounds of aluminum per hour, with a maximum heat input capacity of 0.5 MMBtu/hr, exhausting to stack S-6.
 - (3) MF-3, constructed in 2007, with a maximum capacity of 500 pounds of aluminum per hour, with a maximum heat input capacity of 0.5 MMBtu/hr, exhausting to stack S-7.
 - (4) MF-4, constructed in 2008, with a maximum capacity of 441 pounds of aluminum per hour, with a maximum heat input capacity of 0.7 MMBtu/hr, exhausting to stack S-7.
- (f) Four (4) die casting machines (pouring and casting), including:
- (1) DC-1, constructed in 2007, with a maximum capacity of 0.09 tons of aluminum per hour, venting indoors.
 - (2) DC-2, constructed in 2007, with a maximum capacity of 0.09 tons of aluminum per hour, venting indoors.
 - (3) DC-3, constructed in 2007, with a maximum capacity of 0.124 tons of aluminum per hour, venting indoors.
 - (4) DC-4, constructed in 2008, with a maximum capacity of 0.124 tons of aluminum per hour, venting indoors.
- (g) Three (3) shot blasting units, including:
- (1) SB-1, constructed in 2007, with a maximum zinc based media capacity of 14,072 pounds per hour, controlled by bag filters, venting indoors.
 - (2) SB-2, constructed in 2007, with a maximum zinc based media capacity of 14,072 pounds per hour, controlled by bag filters, venting indoors.

- (3) SB-3, constructed in 2008, with a maximum zinc based media capacity of 14,072 pounds per hour, controlled by bag filters, venting indoors.
- (h) Three (3) parts washers, consisting of the following units:
- (1) One (1) Die Cast Washer 1, identified as WDC-1, constructed in 2007, using 104 gallons of J and B 1097 solution per year;
 - (2) One (1) Die Cast Washer 2, identified as WDC-2, constructed in 2007, using water as the washing solution; and
 - (3) One (1) Die Cast Washer 3, identified as WDC-3, approved for construction in 2009, using water as the washing solution
- (i) Seventeen (17) lathe machines, where coolant solution continuously flooding the machining interface, exhausting to the interior; with no particulate emissions and VOC emissions are determined at 100% flash off, consisting of the following units:
- (1) One (1) DC A-1 Lathe 1, identified as LDC-1, constructed in 2007, with a maximum production rate of 52.33 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (2) One (1) DC A-1 Lathe 2, identified as LDC-2, constructed in 2007, with a maximum production rate of 52.33 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (3) One (1) DC A-2 Lathe 3, identified as L-3, constructed in 2007, with a maximum production rate of 52.33 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (4) One (1) DC A-2 Lathe 4, identified as LDC-4, constructed in 2007, with a maximum production rate of 78.50 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (5) One (1) DC-B-1 Lathe 1, identified as LDC-5, constructed in 2007, with a maximum production rate of 78.50 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (6) One (1) DC-B-1 Lathe 2, identified as LDC-6, constructed in 2007, with a maximum production rate of 78.50 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (7) One (1) DC-B-1 Lathe 3, identified as LDC-7, constructed in 2007, with a maximum production rate of 78.50 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (8) One (1) DC-B-1 Lathe 4, identified as LDC-8, constructed in 2007, with a maximum production rate of 78.50 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (9) One (1) DC-B-1 Lathe 5, identified as LDC-9, constructed in 2007, with a maximum production rate of 78.50 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (10) One (1) 6R140 DC Lathe 1, identified as LDC-10, approved for construction in 2009, with a maximum production rate of 60.0 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (11) One (1) 6R140 DC Lathe 2, identified as LDC-11, approved for construction in 2009, with a maximum production rate of 60.0 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (12) One (1) Manual West DC Lathe, identified as LDC-12, approved for construction in 2009, with a maximum production rate of 78.50 units per hour, using Yumate EC 980 as a cutting coolant oil;

- (13) One (1) Manual East DC Lathe, identified as LDC-13, approved for construction in 2009, with a maximum production rate of 78.50 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (14) One (1) 6R140 DC Lathe 3, identified as LDC-14, approved for construction in 2009, with a maximum production rate of 60.0 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (15) One (1) 6R140 DC Lathe 4, identified as LDC-15, approved for construction in 2009, with a maximum production rate of 60.0 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (16) One (1) 6R80DC Lathe, identified as LDC-16, approved for construction in 2009, with a maximum production rate of 52.33 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (17) One (1) 6R80 DC Lathe, identified as LDC-17 approved for construction in 2009, with a maximum production rate of 78.50units per hour, using Yumate EC 980 as a cutting coolant oil;
- (j) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, including:
- (1) Three (3) natural gas fired rooftop heaters, identified as RTUDE-1 to RTUDC-3, each constructed in 2007 rated between 0.12 and 0.4 MMBtu/hr, with a combined capacity rating of 0.77 MMBtu/hr, and exhaust indoors.
 - (2) Two (2) natural gas propeller unit heaters, identified as UHDC-1 and UHDC-2, each constructed in 2007, rated at 0.12 MMBtu/hr, each, with a combined capacity rating of 0.24 MMBtu/hr, and exhaust indoors.
- (k) Facility-wide activities that do not generate any or significant amounts of criteria pollutant or HAP emissions, including the following units (based on information provided by the source):
- (1) Four (4) grob machines and presses; constructed in 2004, 2005, and 2007, respectively; utilizing Draw-Eze 571 as a machining fluid. There are no criteria pollutants or HAPs emitted from this process;
 - (2) Three (3) electron-beam welders;
 - (3) One (1) metal forming press;
 - (4) One (1) Rosler debur machine, using ZF3325 as the compound fluid and AR 8047 as the flocculant fluid;
 - (5) Several demagnetizers;
 - (6) Several laser markers;
 - (7) One flow forming machine, using Galaxy GX 3020 as a machining fluid;
 - (8) On manual o-ring lubing process using a maximum of 5 gallons per week of ATF-94-A fluid;
 - (9) Several mechanical brushing presses;

- (10) Several small brush debur machines;
- (11) One (1) pierce machine;
- (12) One (1) ink stamp;
- (13) One (1) enclosed chop saw, using Seal Cool 1420 machining fluid for quality control;
- (14) One (1) band saw for quality control; and
- (15) Several miscellaneous assembly operations using mechanical processes.

SECTION B

GENERAL CONDITIONS

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

Terms in this registration shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-1.1-1) shall prevail.

B.2 Effective Date of Registration [IC 13-15-5-3]

Pursuant to IC 13-15-5-3, this registration is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

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

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

- (a) Violation of any conditions of this registration.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this registration.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this registration shall not require revocation of this registration.
- (d) For any cause which establishes in the judgment of IDEM, the fact that continuance of this registration is not consistent with purposes of this article.

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

- (a) All terms and conditions of permits established prior to Registration No. 001-26137-00064 and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this registration.

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

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

- (a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this registration.
- (b) The annual notice shall be submitted in the format attached no later than March 1 of each year to:

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

- (c) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

B.6 Source Modification Requirement [326 IAC 2-5.5-6(a)]

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

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

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

SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

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

C.1 Opacity [326 IAC 5-1]

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

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

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

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

SECTION D.1

OPERATION CONDITIONS

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

Main Building Emission Units:

- (a) One (1) shot blasting unit, identified as SB-4, approved for construction in 2009, with a maximum glass bead based media capacity of 850 pounds per hour, controlled by bag filters and venting indoors.

Die Cast Building Emission Units:

- (g) Three (3) shot blasting units, including;
- (1) SB-1, constructed in 2007, with a maximum zinc based media capacity of 14,072 pounds per hour, controlled by bag filters, venting indoors.
 - (2) SB-2, constructed in 2007, with a maximum zinc based media capacity of 14,072 pounds per hour, controlled by bag filters, venting indoors.
 - (3) SB-3, constructed in 2008, with a maximum zinc based media capacity of 14,072 pounds per hour, controlled by bag filters, venting indoors.

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

Emission Limitations and Standards [326 IAC 2-5.1-2(f)(1)] [326 IAC 2-5.5-4(a)(1)]

D.1.1 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

- (a) Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the shot blasting unit SB-4 shall not exceed 2.31 pounds per hour, when operating at a process weight rate of 0.43 tons per hour.
- (b) Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the shot blasting units, SB-1, SB-2, and SB-3 shall each not exceed 16.90 pounds per hour, when operating at a process weight rate of 8.28 tons per hour each.

The pound per hour limitations were calculated with the following equation:

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

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

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

**REGISTRATION
ANNUAL NOTIFICATION**

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

Company Name:	FCC (Adams), LLC
Address:	936 East Parr Rd.,
City:	Berne, Indiana 46711
Phone Number:	(260) 589-8555
Registration No.:	R001-26137-00064

I hereby certify that FCC (Adams), LLC is :

- still in operation.
- no longer in operation.
- in compliance with the requirements of Registration No.:001-26137-00064.
- not in compliance with the requirements of Registration No. 001-26137-00064.

I hereby certify that FCC (Adams), LLC is :

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

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

Noncompliance:

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for a Registration Revision

Source Description and Location

Source Name:	FCC (Adams), LLC
Source Location:	936 E Par Road, Berne, IN 46711
County:	Adams
SIC Code:	3714
Registration No.:	001-26137-00064
Registration Issuance Date:	June 5, 2008
Registration Revision No.:	001-28538-00064
Permit Reviewer:	Jillian Bertram

On October 6, 2009, the Office of Air Quality (OAQ) received an application from FCC (Adams), LLC related to a modification to an existing clutch pack manufacturing plant.

Existing Approvals

The source was issued Registration No. 001-26137-00064 on June 5, 2008. The source has not received any approvals since.

County Attainment Status

The source is located in Adams County.

Pollutant	Designation
SO ₂	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O ₃	Unclassifiable or attainment effective June 15, 2004, for the 8-hour ozone standard. ¹
PM ₁₀	Unclassifiable effective November 15, 1990.
NO ₂	Cannot be classified or better than national standards.
Pb	Not designated.
¹ Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005. Unclassifiable or attainment effective April 5, 2005, for PM2.5.	

(a) Ozone Standards

Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Adams County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(b) PM2.5

Adams County has been classified as attainment for PM2.5. On May 8, 2008, U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM2.5

emissions, and the effective date of these rules was July 15, 2008. Indiana has three years from the publication of these rules to revise its PSD rules, 326 IAC 2-2, to include those requirements. The May 8, 2008 rule revisions require IDEM to regulate PM10 emissions as a surrogate for PM2.5 emissions until 326 IAC 2-2 is revised.

(c) Other Criteria Pollutants

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

Fugitive Emissions

The fugitive emissions of criteria pollutants and hazardous air pollutants are counted toward the determination of 326 IAC 2-5.1-2 (Registrations) applicability.

Status of the Existing Source

The table below summarizes the potential to emit of the entire source, prior to the proposed revision, after consideration of all enforceable limits established in the effective permits:

Process/ Emission Unit	Potential To Emit of the Entire Source Prior to Revision (tons/year)								
	PM	PM10	PM2.5	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Main Building Units									
Parts Washing (W-1 through W-5)	0.00	0.00	0.00	0.00	0.00	1.06	0.00	0.00	0.00
Lathes (L-1 through L-9)	0.00	0.00	0.00	0.00	0.00	0.65	0.00	0.00	0.00
Combustion (RTU-1 through RTU-9, UH-1 through UH-4, AMU-1, EH-1)	0.19	0.19	0.19	0.01	2.45	0.14	2.06	0.05	0.05 (hexane)
Die Cast Building Units									
Melting Furnaces (Process) (MF-1 through MF-4)	4.82	4.82	4.82	0.00	0.00	0.00	0.00	0.00	0.00
Die Casting (DC-1 through DC-4)	0.00	0.00	0.00	0.04	0.02	0.26	0.00	0.00	0.00
Shot Blasting (SB-1 through SB-3)	8.93	8.93	8.93	0.00	0.00	0.00	0.00	0.00	0.00
Parts Washing (WDC-1 through WDC-2)	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Lathes (LDC-1 through LDC-9)	0.00	0.00	0.00	0.00	0.00	0.87	0.00	0.00	0.00
Combustion (RTUDE-1 through RTUDE-3, UHDC-1, UHDC-2, MF-1 through MF-4)	0.10	0.10	0.10	0.01	1.32	0.07	1.11	0.02	0.02 (hexane)
Total PTE of the Entire Source	14.04	14.04	14.04	0.06	3.78	3.08	3.16	0.07	0.068 (Hexane)
Exemptions Levels	5	5	5	10	10	5 or 10	25	25	10
Registration Levels	25	25	25	25	25	25	100	25	10
negl. = negligible These emissions are based upon R001-26137-00064.									

Description of Proposed Revision

The Office of Air Quality (OAQ) has reviewed an application, submitted by FCC (Adams), LLC on October 6, 2009, relating to a change in production and maximum heat input capacity for MF-4, the addition of a shot blasting machine, the addition of four parts washers, the addition of fourteen lathes, a change in fluid for existing lathe machines, the addition of a heat exchanger, the addition of several units that do not generate emissions to the registration, and a restructuring of the listing of emission units to more accurately represent the source layout.

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

New Units:

Main Building Emission Units:

- (a) One (1) shot blasting unit, identified as SB-4, approved for construction in 2009, with a maximum glass bead based media capacity of 850 pounds per hour, controlled by bag filters and venting indoors.
- (b) Three (3) parts washers, consisting of the following units:
 - (1) One (1) Flow Forming washer, identified as W-6, approved for construction in 2009, using 208 gallons of J and B solution per year; and
 - (2) One (1) Assembly washer (East), identified as W-7, approved for construction in 2009, using 540 gallons of M-1 solution per year; and
 - (3) One (1) Die Cleaning Machine, identified as W-8, approved for construction in 2009, using 68 gallons of Safety-Kleen Premium Solvent per year.
- (c) Six (6) lathe machines, where coolant solution continuously flooding the machining interface, exhausting to the interior; with no particulate emissions and VOC emissions are determined at 100% flash off, consisting of the following units:
 - (1) One (1) OP0 Flow Form Lathe, identified as L-10, approved for construction in 2009, with a maximum production rate of 60.0 units per hour, using Seal Cool 3990 as a cutting coolant oil;
 - (2) One (1) OP10 Flow Form Lathe, identified as L-11, approved for construction in 2009, with a maximum production rate of 60.0 units per hour, using Seal Cool 3990 as a cutting coolant oil;
 - (3) One (1) OP20 Flow Form Lathe, identified as L-12, approved for construction in 2009, with a maximum production rate of 60.0 units per hour, using Seal Cool 3990 as a cutting coolant oil;
 - (4) One (1) OP30 Flow Form Lathe, identified as L-13, approved for construction in 2009, with a maximum production rate of 60.0 units per hour, using Seal Cool 3990 as a cutting coolant oil;
 - (5) One (1) OP20 Flow Form Lathe 2, identified as L-14, approved for construction in 2009, with a maximum production rate of 60.0 units per hour, using Seal Cool 3990 as a cutting coolant oil;
 - (6) One (1) OP30 Flow Form Lathe 2, identified as L-15, approved for construction in 2009,

with a maximum production rate of 60.0 units per hour, using Seal Cool 3990 as a cutting coolant oil;

- (d) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, including:
- (1) One (1) natural gas-fired heat exchanger, identified as HE-1, approved for construction in 2009, with a maximum heat input capacity of 0.12 MMBtu/hr.

Die Cast Building Emission Units:

- (e) One (1) parts washers, consisting of the following units:
- (1) One (1) Die Cast Washer 3, identified as WDC-3, approved for construction in 2009, using water as the washing solution
- (f) Eight (8) lathe machines, where coolant solution continuously flooding the machining interface, exhausting to the interior; with no particulate emissions and VOC emissions are determined at 100% flash off, consisting of the following units:
- (1) One (1) 6R140 DC Lathe 1, identified as LDC-10, approved for construction in 2009, with a maximum production rate of 60.0 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (2) One (1) 6R140 DC Lathe 2, identified as LDC-11, approved for construction in 2009, with a maximum production rate of 60.0 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (3) One (1) Manual West DC Lathe, identified as LDC-12, approved for construction in 2009, with a maximum production rate of 78.50 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (4) One (1) Manual East DC Lathe, identified as LDC-13, approved for construction in 2009, with a maximum production rate of 78.50 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (5) One (1) 6R140 DC Lathe 3, identified as LDC-14, approved for construction in 2009, with a maximum production rate of 60.0 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (6) One (1) 6R140 DC Lathe 4, identified as LDC-15, approved for construction in 2009, with a maximum production rate of 60.0 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (7) One (1) 6R80DC Lathe, identified as LDC-16, approved for construction in 2009, with a maximum production rate of 52.33 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (8) One (1) 6R80 DC Lathe, identified as LDC-17 approved for construction in 2009, with a maximum production rate of 78.50units per hour, using Yumate EC 980 as a cutting coolant oil;

Modified Units:

Die Cast Building Emission Units:

- (a) One (1) natural gas-fired aluminum melting furnaces, including:
- (1) MF-4, constructed in 2008, with a maximum capacity of 441 pounds of aluminum per hour, with a maximum heat input capacity of 0.7 MMBtu/hr, exhausting to stack S-7.
- (b) Nine (9) lathe machines, where coolant solution continuously flooding the machining interface, exhausting to the interior; with no particulate emissions and VOC emissions are determined at 100% flash off, consisting of the following units:
- (1) One (1) DC A-1 Lathe 1, identified as LDC-1, constructed in 2007, with a maximum production rate of 52.33 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (2) One (1) DC A-1 Lathe 2, identified as LDC-2, constructed in 2007, with a maximum production rate of 52.33 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (3) One (1) DC A-2 Lathe 3, identified as LDC-3, constructed in 2007, with a maximum production rate of 52.33 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (4) One (1) DC A-2 Lathe 4, identified as LDC-4, constructed in 2007, with a maximum production rate of 78.50 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (5) One (1) DC-B-1 Lathe 1, identified as LDC-5, constructed in 2007, with a maximum production rate of 78.50 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (6) One (1) DC-B-1 Lathe 2, identified as LDC-6, constructed in 2007, with a maximum production rate of 78.50 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (7) One (1) DC-B-1 Lathe 3, identified as LDC-7, constructed in 2007, with a maximum production rate of 78.50 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (8) One (1) DC-B-1 Lathe 4, identified as LDC-8, constructed in 2007, with a maximum production rate of 78.50 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (9) One (1) DC-B-1 Lathe 5, identified as LDC-9, constructed in 2007, with a maximum production rate of 78.50 units per hour, using Yumate EC 980 as a cutting coolant oil;

The following is a list of the unpermitted emission units:

- (a) Facility-wide activities that do not generate any or significant quantities of criteria pollutant or HAP emissions, including the following units (based on information provided by the source):
- (1) Four (4) grob machines and presses; constructed in 2004, 2005, and 2007, respectively; utilizing Draw-Eze 571 as a machining fluid. There are no criteria pollutants or HAPs emitted from this process;
 - (2) Three (3) electron-beam welders;
 - (3) One (1) metal forming press;
 - (4) One (1) Rosler debur machine, using ZF3325 as the compound fluid and AR 8047 as the flocculant fluid;
 - (5) Several demagnetizers;
 - (6) Several laser markers;

- (7) One (1) flow forming machine, using Galaxy GX 3020 as a machining fluid;
- (8) One (1) manual o-ring lubing process using a maximum of 5 gallons per week of ATF-94-A fluid;
- (9) Several mechanical brushing presses;
- (10) Several small brush debur machines;
- (11) One (1) pierce machine;
- (12) One (1) ink stamp;
- (13) One (1) enclosed chop saw, using Seal Cool 1420 machining fluid for quality control;
- (14) One (1) band saw for quality control; and
- (15) Several miscellaneous assembly operations using mechanical processes.

Note - These units are exempt and were not required to be listed in the registration; they are being included for clarification purposes.

Enforcement Issues

There are no pending enforcement actions related to this revision.

Emission Calculations

See Appendix A of this TSD for detailed emission calculations.

Permit Level Determination – Registration Revision

The following table is used to determine the appropriate permit level under 326 IAC 2-5.5-6. This table reflects the PTE before controls of the proposed revision.

Process/ Emission Unit	PTE of Proposed Revision (tons/year)								
	PM	PM10 *	PM2.5	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
SB-4	2.98	2.98	2.98	0.00	0.00	0.00	0.00	0.00	0.00
New Main Building Parts Washers (W- 6 through W-8)	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00
New Main Bulding Lathe Mashines (L-10 through L- 15)	0.00	0.00	0.00	0.00	0.00	1.50	0.00	0.00	0.00
HE-1	negl.	negl.	negl.	negl.	0.05	negl.	0.04	negl.	negl.
New Die Cast Building Lathe Machines (LDC-10 through LDC-17)	0.00	0.00	0.00	0.00	0.00	7.25	0.00	0.00	0.00
Modified MF-4	1.06	1.06	1.06	0.00	0.00	0.00	0.00	0.00	0.00
Modified Die Cast Building Lathe Machines (LDC-1 through LDC-9)	0.00	0.00	0.00	0.00	0.00	5.13	0.00	0.00	0.00
Total PTE of Proposed Revision	4.04	4.04	4.04	negl.	0.05	14.39	0.04	negl.	negl.

negl. = negligible

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

This Registration is being revised through a Registration Revision pursuant to 326 IAC 2-5.5.6(g), because the revision involves the construction of emission units with potential to emit (PTE) VOC greater than the thresholds in 326 IAC 2-5.5.6(d)(10) and 326 IAC 2-5.5.6(d)(12).

PTE of the Entire Source After Issuance of the Registration Revision

The table below summarizes the potential to emit of the entire source after issuance of this revision, reflecting all limits, of the emission units.

Process/ Emission Unit	Potential To Emit of the Entire Source with the Revision (tons/year)								
	PM	PM10 *	PM2.5	SO ₂	VOC	CO	NO _x	Total HAPs	Worst Single HAP
Main Building Units									value or negl. (list HAP)
Shot Blasting (SB-4)	2.98	2.98	2.98	0.00	0.00	0.00	0.00	0.00	0.00
Parts Washing (W-1 through W-8)	0.00	0.00	0.00	0.00	1.06 1.57	0.00	0.00	0.00	0.00
Lathes (L-1 through L-15)	0.00	0.00	0.00	0.00	0.65 2.15	0.00	0.00	0.00	0.00
Combustion (RTU-1 through RTU-9, UH- 1 through UH-4, AMU-1, HE-1, EH-1)	0.19	0.19	0.19	0.04 0.02	0.14	2.06 2.10	2.45 2.50	0.05	0.05
Die Cast Building Units									
Melting Furnaces (Process) (MF-1 through MF-4)	4.82 4.68	4.82 4.68	4.82 4.68	0.00	0.00	0.00	0.00	0.00	0.00
Die Casting (DC-1 through DC-4)	0.00	0.00	0.00	0.04	0.26	0.00	0.02	0.00	0.00
Shot Blasting (SB-1 through SB-3)	8.93	8.93	8.93	0.00	0.00	0.00	0.00	0.00	0.00
Parts Washing (WDC-1 through WDC-3)	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
Lathes (LDC-1 through LDC-17)	0.00	0.00	0.00	0.00	0.87 12.35	0.00	0.00	0.00	0.00
Combustion (RTUDE-1 through RTUDE-3, UHDC-1, UHDC-2, MF-1 through MF-4)	0.10	0.10	0.10	0.01	0.07 0.08	1.11 1.18	1.32 1.41	0.02	0.02
Total PTE of Entire Source	14.04 16.88	14.04 16.88	14.04 16.88	0.06	3.08 16.57	3.16 3.29	3.78 3.92	0.07	0.07
Exemptions Levels	5	5	5	10	10	5 or 10	25	25	10
Registration Levels	25	25	25	25	25	25	100	25	10
negl. = negligible * Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant".									

The table below summarizes the potential to emit of the entire source after issuance of this revision, reflecting all limits, of the emission units. (Note: the table below was generated from the above table, with bold text un-bolded and strikethrough text deleted)

Process/ Emission Unit	Potential To Emit of the Entire Source with the Revision (tons/year)								
	PM	PM10 *	PM2.5	SO ₂	VOC	CO	NOx	Total HAPs	Worst Single HAP
Main Building Units									value or negl. (list HAP)
Shot Blasting (SB-4)	2.98	2.98	2.98	0.00	0.00	0.00	0.00	0.00	0.00
Parts Washing (W-1 through W-8)	0.00	0.00	0.00	0.00	1.57	0.00	0.00	0.00	0.00
Lathes (L-1 through L-15)	0.00	0.00	0.00	0.00	2.15	0.00	0.00	0.00	0.00
Combustion (RTU-1 through RTU-9, UH-1 through UH-4, AMU-1, HE-1, EH-1)	0.19	0.19	0.19	0.01	0.14	2.11	2.50	0.04	0.05
Die Cast Building Units									
Melting Furnaces (Process) (MF-1 through MF-4)	4.68	4.68	4.68	0.00	0.00	0.00	0.00	0.00	0.00
Die Casting (DC-1 through DC-4)	0.00	0.00	0.00	0.04	0.26	0.00	0.02	0.00	0.00
Shot Blasting (SB-1 through SB-3)	8.93	8.93	8.93	0.00	0.00	0.00	0.00	0.00	0.00
Parts Washing (WDC-1 through WDC-3)	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
Lathes (LDC-1 through LDC-17)	0.00	0.00	0.00	0.00	12.35	0.00	0.00	0.00	0.00
Combustion (RTUDE-1 through RTUDE-3, UHDC-1, UHDC-2, MF-1 through MF-4)	0.11	0.11	0.11	0.01	0.08	1.18	1.41	0.03	0.03
Total PTE of Entire Source	16.88	16.88	16.88	0.06	16.57	3.29	3.92	0.07	0.07
Exemptions Levels	5	5	5	10	10	5 or 10	25	25	10
Registration Levels	25	25	25	25	25	25	100	25	10

negl. = negligible

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

- (a) This revision will not change the registration status of the source, because the uncontrolled/unlimited potential to emit of PM, PM10, and VOC from the entire source will still be within the ranges listed in 326 IAC 2-5.5-1(b)(1) and the PTE of all other regulated criteria pollutants will still be less than the ranges listed in 326 IAC 2-5.5-1(b)(1). Therefore, the source will still be subject to the provisions of 326 IAC 2-5.5 (Registrations).
- (b) This revision will not change the minor status of the source, because the uncontrolled/unlimited potential to emit of any single HAP will still be less than ten (10) tons per year and the PTE of a combination of HAPs will still be less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-7.

Federal Rule Applicability Determination

The federal rule applicability for this revision is as follows:

New Source Performance Standards (NSPS)

- (a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included for this proposed revision.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (b) The requirements of the National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, 40 CFR 63.11, Subpart XXXXXX, are not included in the permit because the source's SIC code (3714) is not included in the EPA source category list for the nine metal fabrication and finishing source categories. Although the source engages in shot blasting operations, it does not qualify as one of the nine source categories, rendering this rule not applicable.
- (c) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included for this proposed revision.

Compliance Assurance Monitoring (CAM)

- (d) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is not included in the permit, because the potential to emit of the source is limited to less than the Title V major source thresholds and the source is not required to obtain a Part 70 or Part 71 permit.

State Rule Applicability Determination

The following state rules are applicable to the proposed revision:

- (a) 326 IAC 2-5.5 (Registrations)
Registration applicability is discussed under the Permit Level Determination – Registration section above.
- (b) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
The proposed revision is not subject to the requirements of 326 IAC 2-4.1, since the unlimited potential to emit of HAPs from the revision is less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs.
- (c) 326 IAC 2-6 (Emission Reporting)
Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is not located in Lake, Porter, or LaPorte

County, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.

- (d) 326 IAC 5-1 (Opacity Limitations)
Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:
- (1) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
 - (2) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.
- (e) 326 IAC 6-4 (Fugitive Dust Emissions Limitations)
Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4.

SB-4

- (f) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-2(e)(1), the particulate matter (PM) from SB-4 shall not exceed 2.31 pounds per hour when operating at a process weight rate of 0.425 tons per hour. The pound per hour limitation was calculated with the following equation:

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

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

Based on calculations, the bag filters are not needed to comply with this limit.

W-1 through W-8, and L-1 through L-15

- (g) 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
None of these units are subject to the requirements of 326 IAC 8-1-6, since the unlimited VOC potential emissions from each is less than twenty-five (25) tons per year.
- (h) There are no other 326 IAC 8 Rules that are applicable to these units.

Main Building Combustion Units

- (i) 326 IAC 6-2 (Particulate Emission Limitations for Sources of Indirect Heating)
The requirements of 326 IAC 6-2 do not apply to these units because they are all sources of direct heating.
- (j) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-1(b)(14), these units are exempt from the requirements of 326 IAC 6-3-2 because the potential to emit particulate from each operation is less than 0.551 pounds per hour.

MF-1 through MF-4

- (j) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 362 IAC 6-3-1(b)(14), these units are exempt from the requirements of 326 IAC 6-3-2 because the potential to emit particulate from each operation is less than 0.551 pounds per hour. Although the melting furnace units were previously subject to 326 IAC 6-3, the rule has been reevaluated and each furnace has been determined to be an independent manufacturing process, rendering 326 IAC 6-3 no longer applicable.

DC-1 through DC-4

- (k) 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
None of these units are subject to the requirements of 326 IAC 8-1-6, since the unlimited VOC potential emissions from each is less than twenty-five (25) tons per year.
- (l) There are no other 326 IAC 8 Rules that are applicable to these units.

SB-1 through SB-3

- (m) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-2(e)(1), the particulate matter (PM) from SB-1, SB-2, and SB-3 shall not exceed 16.90 pounds per hour, each, when operating at a process weight rate of 8.28 tons per hour, each. The pound per hour limitation was calculated with the following equation:

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

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

Based on calculations, the bag filters are not needed to comply with this limit.

WDC-1 through WDC-3, LDC-1 through LDC-17

- (n) 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
None of these units are subject to the requirements of 326 IAC 8-1-6, since the unlimited VOC potential emissions from each is less than twenty-five (25) tons per year.
- (o) There are no other 326 IAC 8 Rules that are applicable to these units.

Die Cast Building Combustion Units

- (p) 326 IAC 6-2 (Particulate Emission Limitations for Sources of Indirect Heating)
The requirements of 326 IAC 6-2 do not apply to these units because they are all sources of direct heating.
- (q) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 362 IAC 6-3-1(b)(14), these units are exempt from the requirements of 326 IAC 6-3-2 because the potential to emit particulate from each operation is less than 0.551 pounds per hour.

Proposed Changes

- (a) The following changes listed below are due to the proposed revision. Deleted language appears as ~~strikethrough~~ text and new language appears as **bold** text:
- (1) The production and heat input capacity of MF-4 have been modified.
- (2) A shot blasting machine, SB-4 has been added.

- (3) Four parts washers have been added.
 - (4) Fourteen lathes have been added.
 - (5) Fluid changes in lathe machines have been documented.
 - (6) One heat exchanger has been added.
 - (7) Several units that do not emit pollutants have been added.
 - (8) The units have been rearranged in the description to more accurately reflect source layout.
- (b) Upon further review, IDEM, OAQ has decided to make the following changes to the permit. Deleted language appears as ~~strike through~~ text and new language appears as **bold** text:
- (1) Upon re-analysis of rule applicability, the melting furnace units are no longer subject to 326 IAC 6-3.

A.2 Emission Units and Pollution Control Equipment Summary

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

- ~~(a) Three (3) aluminum melting furnaces, identified as MF-1, MF-2, MF-3, constructed in June 2007, with a maximum capacity of 500 pounds of aluminum per hour each, and furnace MF-1 and MF-2 exhaust to stack S-6, and furnace MF-3 exhausts to stack S-7.~~
- ~~(b) One (1) aluminum melting furnace, identified as MF-4, approved for construction in 2008, with a maximum capacity of 500 pounds per hour, and exhausts to stack S-7.~~
- ~~(c) Three (3) die casting machines (pouring and casting), identified as DC-1, DC-2, and DC-3, constructed in 2007, with a maximum capacity of 0.09 tons of aluminum per hour each for DC-1 and DC-2, and 0.124 tons of aluminum per hour for DC-3, venting indoors.~~
- ~~(d) One (1) die casting machine (pouring and casting), identified as DC-4, approved for construction in 2008, with a maximum capacity of 0.124 tons of aluminum per hour, venting indoors.~~
- ~~(e) Two (2) shot blasting units, identified as SB1, SB2, constructed in June 2007, with a maximum zinc based media capacity of 14,072 pounds per hour each, controlled by bag filters, venting indoors.~~
- ~~(f) One (1) shot blasting unit, identified as SB3, approved for construction in 2008, with a maximum zinc based media capacity of 14,072 pounds per hour each, controlled by bag filters, venting indoors.~~
- ~~(g) Seven (7) parts washers; two (2) die cast washers, each constructed in 2007, one (1) press washer, one (1) assembly washer, one (1) Hub washer, one (1) Deburr washer, and one (1) RWG washer, each constructed in 2006, venting outdoors.~~
- ~~(h) Natural gas fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, including:
 - ~~(1) Twelve (12) natural gas fired rooftop heaters, identified as RTU-1 to RTU-9, each constructed in 2004, and RTUDC-1 to RTUDC-3, each constructed in 2007, rated between 0.12 and 0.5 MMBtu/hr, with a combined capacity rating of 4.105 MMBtu/hr, and exhaust indoors.~~
 - ~~(2) Six (6) natural gas propeller unit heaters, identified as UH-1 to UH-4, each constructed in 2004, and UHDC-1, UHDC-2, each constructed in 2007, rated between 0.075 and 0.12 MMBtu/hr, with a combined capacity rating of 0.585 MMBtu/hr, and exhaust indoors.~~~~

~~(3) One (1) 0.4 MMBtu/hr direct-fired natural-gas air make-up unit, constructed in 2007.~~

~~(4) One (1) 1.5 MMBtu/hr natural-gas water evaporator heater, constructed in 2004.~~

~~(i) Three (3) lathe machines, approved for construction in 2008, using Seal Cool 3990 as a cutting coolant oil, where coolant solution continuously flooding the machining interface, exhausting to the interior; with no particulate emissions and VOC emissions are determined at 100% flash off.~~

~~(j) Fifteen (15) lathe machines; four (4) constructed in 2004; two (2) constructed in 2006; and nine (9) constructed in 2007; using Seal Cool 3990 as a cutting coolant oil, where the coolant solution continuously flooding the machining interface, exhausting to the interior; with no particulate emissions and VOC emissions are determined at 100% flash off.~~

~~(k) Three (3) grob machines and presses; constructed in 2004, 2005, and 2007, respectively, utilize Draw-Eze 571 as a machining fluid. There are no criteria pollutants or HAPs emitted from this process.~~

A.2 Emission Units and Pollution Control Equipment Summary

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

Main Building Emission Units:

- (a) **One (1) shot blasting unit, identified as SB-4, approved for construction in 2009, with a maximum glass bead based media capacity of 850 pounds per hour, controlled by bag filters and venting indoors.**
- (b) Eight (8) parts washers, consisting of the following units:
 - (1) One (1) press washer, identified as W-1, constructed in 2006, using 1560 gallons of Kleen-Eze 305 solution per year;
 - (2) One (1) Deburr washer, identified as W-2, constructed in 2006, using 416 gallons of J and B 1097 solution per year;
 - (3) One (1) Hub washer, identified as W-3, constructed in 2006, using 520 gallons of J and B 1097 solution per year;
 - (4) One (1) Assembly washer (West), identified as W-4, constructed in 2006, using 1300 gallons of M-1 solution per year;
 - (5) One (1) RGW washer, identified as W-5, constructed in 2006, using 156 gallons of J and B 1097 solution per year;
 - (6) **One (1) Flow Forming washer, identified as W-6, approved for construction in 2009, using 208 gallons of J and B solution per year; and**
 - (7) **One (1) Assembly washer (East), identified as W-7, approved for construction in 2009, using 540 gallons of M-1 solution per year; and**
 - (8) **One (1) Die Cleaning Machine, identified as W-8, approved for construction in 2009, using 68 gallons of Safety-Kleen Premium Solvent per year.**
- (c) Fifteen (15) lathe machines, where coolant solution continuously flooding the machining interface, exhausting to the interior; with no particulate emissions and VOC emissions are determined at

100% flash off, consisting of the following units:

- (1) One (1) A-1 Lathe 1, identified as L-1, constructed in 2004, with a maximum production rate of 104.66 units per hour, using Seal Cool 3990 as a cutting coolant oil;
 - (2) One (1) A-2 Lathe 2, identified as L-2, constructed in 2004, with a maximum production rate of 52.33 units per hour, using Seal Cool 3990 as a cutting coolant oil;
 - (3) One (1) A-2 Lathe 3, identified as L-3, constructed in 2004, with a maximum production rate of 52.33 units per hour, using Seal Cool 3990 as a cutting coolant oil;
 - (4) One (1) B Lathe 1, identified as L-4, constructed in 2004, with a maximum production rate of 104.66 units per hour, using Seal Cool 3990 as a cutting coolant oil;
 - (5) One (1) RWG Lathe 1, identified as L-5, constructed in 2006, with a maximum production rate of 78.50 units per hour, using Seal Cool 3990 as a cutting coolant oil;
 - (6) One (1) RWG Lathe 2, identified as L-6, constructed in 2006, with a maximum production rate of 78.5 units per hour, using Seal Cool 3990 as a cutting coolant oil;
 - (7) One (1) A-1 Lathe 4, identified as L-7, constructed in 2008 with a maximum production rate of 104.66 units per hour, using Seal Cool 3990 as a cutting coolant oil;
 - (8) One (1) A-2 Lathe 5, identified as L-8, constructed in 2008, with a maximum production rate of 52.33 units per hour, using Seal Cool 3990 as a cutting coolant oil;
 - (9) One (1) B Lathe 2, identified as L-9, constructed in 2008, with a maximum production rate of 104.66 units per hour, using Seal Cool 3990 as a cutting coolant oil;
 - (10) One (1) OP0 Flow Form Lathe, identified as L-10, approved for construction in 2009, with a maximum production rate of 60.0 units per hour, using Seal Cool 3990 as a cutting coolant oil;**
 - (11) One (1) OP10 Flow Form Lathe, identified as L-11, approved for construction in 2009, with a maximum production rate of 60.0 units per hour, using Seal Cool 3990 as a cutting coolant oil;**
 - (12) One (1) OP20 Flow Form Lathe, identified as L-12, approved for construction in 2009, with a maximum production rate of 60.0 units per hour, using Seal Cool 3990 as a cutting coolant oil;**
 - (13) One (1) OP30 Flow Form Lathe, identified as L-13, approved for construction in 2009, with a maximum production rate of 60.0 units per hour, using Seal Cool 3990 as a cutting coolant oil;**
 - (14) One (1) OP20 Flow Form Lathe 2, identified as L-14, approved for construction in 2009, with a maximum production rate of 60.0 units per hour, using Seal Cool 3990 as a cutting coolant oil;**
 - (15) One (1) OP30 Flow Form Lathe 2, identified as L-15, approved for construction in 2009, with a maximum production rate of 60.0 units per hour, using Seal Cool 3990 as a cutting coolant oil;**
- (d) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, including:

- (1) Nine (9) natural gas fired rooftop heaters, identified as RTU-1 to RTU-9, each constructed in 2004 rated between 0.2 and 0.5 MMBtu/hr, with a combined capacity rating of 3.335 MMBtu/hr, and exhaust indoors.
- (2) Four (4) natural gas propeller unit heaters, identified as UH-1 to UH-4, each constructed in 2004, rated between 0.075 and 0.12 MMBtu/hr, with a combined capacity rating of 0.345 MMBtu/hr, and exhaust indoors.
- (3) One (1) 0.4 MMBtu/hr direct-fired natural gas air make-up unit, identified as AMU-1, constructed in 2007.
- (4) **One (1) natural gas-fired heat exchanger, identified as HE-1, approved for construction in 2009, with a maximum heat input capacity of 0.12 MMBtu/hr.**
- (5) One (1) 1.5 MMBtu/hr natural gas water evaporator heater, identified as EH-1, constructed in 2004.

Die Cast Building Emission Units:

- (e) Four (4) natural gas-fired aluminum melting furnaces, including:
 - (1) MF-1, constructed in 2007, with a maximum capacity of 500 pounds of aluminum per hour, with a maximum heat input capacity of 0.5 MMBtu/hr, exhausting to stack S-6.
 - (2) MF-2, constructed in 2007, with a maximum capacity of 500 pounds of aluminum per hour, with a maximum heat input capacity of 0.5 MMBtu/hr, exhausting to stack S-6.
 - (3) MF-3, constructed in 2007, with a maximum capacity of 500 pounds of aluminum per hour, with a maximum heat input capacity of 0.5 MMBtu/hr, exhausting to stack S-7.
 - (4) MF-4, constructed in 2008, with a maximum capacity of ~~441 500~~ pounds of aluminum per hour, with a maximum heat input capacity of ~~0.7 0.5~~ MMBtu/hr, exhausting to stack S-7.
- (f) Four (4) die casting machines (pouring and casting), including;
 - (1) DC-1, constructed in 2007, with a maximum capacity of 0.09 tons of aluminum per hour, venting indoors.
 - (2) DC-2, constructed in 2007, with a maximum capacity of 0.09 tons of aluminum per hour, venting indoors.
 - (3) DC-3, constructed in 2007, with a maximum capacity of 0.124 tons of aluminum per hour, venting indoors.
 - (4) DC-4, constructed in 2008, with a maximum capacity of 0.124 tons of aluminum per hour, venting indoors.
- (g) Three (3) shot blasting units, including;
 - (1) SB-1, constructed in 2007, with a maximum zinc based media capacity of 14,072 pounds per hour, controlled by bag filters, venting indoors.
 - (2) SB-2, constructed in 2007, with a maximum zinc based media capacity of 14,072 pounds per hour, controlled by bag filters, venting indoors.

- (3) SB-3, constructed in 2008, with a maximum zinc based media capacity of 14,072 pounds per hour, controlled by bag filters, venting indoors.
- (h) Three (3) parts washers, consisting of the following units:
- (1) One (1) Die Cast Washer 1, identified as WDC-1, constructed in 2007, using 104 gallons of J and B 1097 solution per year;
 - (2) One (1) Die Cast Waster 2, identified as WDC-2, constructed in 2007, using water as the washing solution; and
 - (3) **One (1) Die Cast Washer 3, identified as WDC-3, approved for construction in 2009, using water as the washing solution**
- (i) Seventeen (17) lathe machines, where coolant solution continuously flooding the machining interface, exhausting to the interior; with no particulate emissions and VOC emissions are determined at 100% flash off, consisting of the following units:
- (1) One (1) DC A-1 Lathe 1, identified as LDC-1, constructed in 2007, with a maximum production rate of 52.33 units per hour, using **Yumate EC 980 Seal-Cool-3990** as a cutting coolant oil;
 - (2) One (1) DC A-1 Lathe 2, identified as LDC-2, constructed in 2007, with a maximum production rate of 52.33 units per hour, using **Yumate EC 980 Seal-Cool-3990** as a cutting coolant oil;
 - (3) One (1) DC A-2 Lathe 3, identified as LDC-3, constructed in 2007, with a maximum production rate of 52.33 units per hour, using **Yumate EC 980 Seal-Cool-3990** as a cutting coolant oil;
 - (4) One (1) DC A-2 Lathe 4, identified as LDC-4, constructed in 2007, with a maximum production rate of 78.50 units per hour, using **Yumate EC 980 Seal-Cool-3990** as a cutting coolant oil;
 - (5) One (1) DC-B-1 Lathe 1, identified as LDC-5, constructed in 2007, with a maximum production rate of 78.50 units per hour, using **Yumate EC 980 Seal-Cool-3990** as a cutting coolant oil;
 - (6) One (1) DC-B-1 Lathe 2, identified as LDC-6, constructed in 2007, with a maximum production rate of 78.50 units per hour, using **Yumate EC 980 Seal-Cool-3990** as a cutting coolant oil;
 - (7) One (1) DC-B-1 Lathe 3, identified as LDC-7, constructed in 2007, with a maximum production rate of 78.50 units per hour, using **Yumate EC 980 Seal-Cool-3990** as a cutting coolant oil;
 - (8) One (1) DC-B-1 Lathe 4, identified as LDC-8, constructed in 2007, with a maximum production rate of 78.50 units per hour, using **Yumate EC 980 Seal-Cool-3990** as a cutting coolant oil;
 - (9) One (1) DC-B-1 Lathe 5, identified as LDC-9, constructed in 2007, with a maximum production rate of 78.50 units per hour, using **Yumate EC 980 Seal-Cool-3990** as a cutting coolant oil;

- (10) **One (1) 6R140 DC Lathe 1, identified as LDC-10, approved for construction in 2009, with a maximum production rate of 60.0 units per hour, using Yumate EC 980 as a cutting coolant oil;**
 - (11) **One (1) 6R140 DC Lathe 2, identified as LDC-11, approved for construction in 2009, with a maximum production rate of 60.0 units per hour, using Yumate EC 980 as a cutting coolant oil;**
 - (12) **One (1) Manual West DC Lathe, identified as LDC-12, approved for construction in 2009, with a maximum production rate of 78.50 units per hour, using Yumate EC 980 as a cutting coolant oil;**
 - (13) **One (1) Manual East DC Lathe, identified as LDC-13, approved for construction in 2009, with a maximum production rate of 78.50 units per hour, using Yumate EC 980 as a cutting coolant oil;**
 - (14) **One (1) 6R140 DC Lathe 3, identified as LDC-14, approved for construction in 2009, with a maximum production rate of 60.0 units per hour, using Yumate EC 980 as a cutting coolant oil;**
 - (15) **One (1) 6R140 DC Lathe 4, identified as LDC-15, approved for construction in 2009, with a maximum production rate of 60.0 units per hour, using Yumate EC 980 as a cutting coolant oil;**
 - (16) **One (1) 6R80DC Lathe, identified as LDC-16, approved for construction in 2009, with a maximum production rate of 52.33 units per hour, using Yumate EC 980 as a cutting coolant oil;**
 - (17) **One (1) 6R80 DC Lathe, identified as LDC-17 approved for construction in 2009, with a maximum production rate of 78.50units per hour, using Yumate EC 980 as a cutting coolant oil;**
- (j) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, including:
- (1) Three (3) natural gas fired rooftop heaters, identified as RTUDE-1 to RTUDC-3, each constructed in 2007 rated between 0.12 and 0.4 MMBtu/hr, with a combined capacity rating of 0.77 MMBtu/hr, and exhaust indoors.
 - (2) Two (2) natural gas propeller unit heaters, identified as UHDC-1 and UHDC-2, each constructed in 2007, rated at 0.12 MMBtu/hr, each, with a combined capacity rating of 0.24 MMBtu/hr, and exhaust indoors.
- (k) **Facility-wide activities that do not generate any or significant amounts of criteria pollutant or HAP emissions, including the following units (based on information provided by the source):**
- (1) **Four (4) grob machines and presses; constructed in 2004, 2005, and 2007, respectively; utilizing Draw-Eze 571 as a machining fluid. There are no criteria pollutants or HAPs emitted from this process;**
 - (2) **Three (3) electron-beam welders;**
 - (3) **One (1) metal forming press;**

- (4) **One (1) Rosler debur machine, using ZF3325 as the compound fluid and AR 8047 as the flocculant fluid;**
- (5) **Several demagnetizers;**
- (6) **Several laser markers;**
- (7) **One flow forming machine, using Galaxy GX 3020 as a machining fluid;**
- (8) **On manual o-ring lubing process using a maximum of 5 gallons per week of ATF-94-A fluid;**
- (9) **Several mechanical brushing presses;**

SECTION D.1

OPERATION CONDITIONS

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

- (a) ~~Three (3) aluminum melting furnaces, identified as MF-1, MF-2, MF-3, constructed in June 2007, with a maximum capacity of 500 pounds of aluminum per hour each, and furnace MF-1 and MF-2 exhaust to stack S-6, and furnace MF-3 exhausts to stack S-7.~~
- (b) ~~One (1) aluminum melting furnace, identified as MF-4, approved for construction in 2008, with a maximum capacity of 500 pounds per hour, and exhausts to stack S-7.~~
- (c) ~~Three (3) die casting machines (pouring and casting), identified as DC-1, DC-2, and DC-3, constructed in 2007, with a maximum capacity of 0.09 tons of aluminum per hour each for DC-1 and DC-2, and 0.124 tons of aluminum per hour for DC-3, venting indoors.~~
- (d) ~~One (1) die casting machine (pouring and casting), identified as DC-4, approved for construction in 2008, with a maximum capacity of 0.124 tons of aluminum per hour, venting indoors.~~

Main Building Emission Units:

- (a) **One (1) shot blasting unit, identified as SB-4, approved for construction in 2009, with a maximum glass bead based media capacity of 850 pounds per hour, controlled by bag filters and venting indoors.**

Die Cast Building Emission Units:

- (g) Three (3) shot blasting units, including:
 - (1) SB-1, constructed in 2007, with a maximum zinc based media capacity of 14,072 pounds per hour, controlled by bag filters, venting indoors.
 - (2) SB-2, constructed in 2007, with a maximum zinc based media capacity of 14,072 pounds per hour, controlled by bag filters, venting indoors.
 - (3) SB-3, constructed in 2008, with a maximum zinc based media capacity of 14,072 pounds per hour, controlled by bag filters, venting indoors.

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

Emission Limitations and Standards [326 IAC 2-5.1-2(f)(1)] [326 IAC 2-5.5-4(a)(1)]

D.1.1 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

Pursuant to 326 IAC 6-3-2, the particulate from the Aluminum melting furnaces, MF-1, MF-2, MF-3, and MF-4 shall each not exceed 1.62 pounds per hour, when operating at a process weight rate of 0.25 tons per hour each. The pound per hour limitation was calculated with the following equation:

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

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

Emission Limitations and Standards [326 IAC 2-5.1-2(f)(1)] [326 IAC 2-5.5-4(a)(1)]

D.1.21 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

- (a) Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the shot blasting unit SB-4 shall not exceed 2.31 pounds per hour, when operating at a process weight rate of 0.43 tons per hour.
- (b) Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the shot blasting units, SB1, SB2, and SB3 shall each not exceed 16.90 pounds per hour, when operating at a process weight rate of 8.28 tons per hour each.

The pound per hour limitations was-were-calculated with the following equation:

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

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

Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on October 6, 2009.

The construction and operation of this proposed revision shall be subject to the conditions of the attached proposed Registration Revision No. 001-28538-00064. The staff recommends to the Commissioner that this Registration Revision be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Jillian Bertram at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317)234-5377 or toll free at 1-800-451-6027 extension 4-5377.

- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

Appendix A: Emissions Calculations
Natural Gas Combustion (<100 MMBtu/hr)

Company Name: FCC (Adams), LLC
Address City IN Zip: 936 East Parr Rd, Berne, Indiana, 46711
Permit Number: 001-28538-00064
Reviewer: Jillian Bertram
Date: 10/13/2009

Total Heat Input
 MMBtu/hr
 22.4

		PTE CRITERIA POLLUTANTS							PTE HAPs						
Emission Factor in lb/MMCF		PM*	PM10*	SO ₂	NO _x	VOC	CO	Benzene	DCB	Formaldehyde	Hexane	Toluene	Pb	Cd	Total
		7.6	7.6	0.6	100	5.5	84.0	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	5.0E-04	1.1E-03	
Unit ID	Heat Input Capacity (MMBtu/hr)	PTE of PM (tons/yr)	PTE of PM10 (tons/yr)	PTE of SO ₂ (tons/yr)	PTE of NO _x (tons/yr)	PTE of VOC (tons/yr)	PTE of CO (tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)
Roof Top Units															
RTU-1	0.235	0.01	0.01	0.001	0.10	0.01	0.09	2.16E-06	1.24E-06	7.72E-05	1.85E-03	3.50E-06	5.15E-07	1.13E-06	1.94E-03
RTU-2	0.5	0.02	0.02	0.001	0.22	0.01	0.18	4.60E-06	2.63E-06	1.64E-04	3.94E-03	7.45E-06	1.10E-06	2.41E-06	4.12E-03
RTU-3	0.4	0.01	0.01	0.001	0.18	0.01	0.15	3.68E-06	2.10E-06	1.31E-04	3.15E-03	5.96E-06	8.76E-07	1.93E-06	3.30E-03
RTU-4	0.4	0.01	0.01	0.001	0.18	0.01	0.15	3.68E-06	2.10E-06	1.31E-04	3.15E-03	5.96E-06	8.76E-07	1.93E-06	3.30E-03
RTU-5	0.4	0.01	0.01	0.001	0.18	0.01	0.15	3.68E-06	2.10E-06	1.31E-04	3.15E-03	5.96E-06	8.76E-07	1.93E-06	3.30E-03
RTU-6	0.4	0.01	0.01	0.001	0.18	0.01	0.15	3.68E-06	2.10E-06	1.31E-04	3.15E-03	5.96E-06	8.76E-07	1.93E-06	3.30E-03
RTU-7	0.4	0.01	0.01	0.001	0.18	0.01	0.15	3.68E-06	2.10E-06	1.31E-04	3.15E-03	5.96E-06	8.76E-07	1.93E-06	3.30E-03
RTU-8	0.4	0.01	0.01	0.001	0.18	0.01	0.15	3.68E-06	2.10E-06	1.31E-04	3.15E-03	5.96E-06	8.76E-07	1.93E-06	3.30E-03
RTU-9	0.2	0.01	0.01	0.001	0.09	0.00	0.07	1.84E-06	1.05E-06	6.57E-05	1.58E-03	2.98E-06	4.38E-07	9.64E-07	1.65E-03
RTUDC-1	0.25	0.01	0.01	0.001	0.11	0.01	0.09	2.30E-06	1.31E-06	8.21E-05	1.97E-03	3.72E-06	5.48E-07	1.20E-06	2.06E-03
RTUDC-2	0.4	0.01	0.01	0.001	0.18	0.01	0.15	3.68E-06	2.10E-06	1.31E-04	3.15E-03	5.96E-06	8.76E-07	1.93E-06	3.30E-03
RTUDC-3	0.12	0.00	0.00	0.000	0.05	0.00	0.04	1.10E-06	6.31E-07	3.94E-05	9.46E-04	1.79E-06	2.63E-07	5.78E-07	9.90E-04
Gas Unit Heater															
UH-1	0.12	0.00	0.00	0.000	0.05	0.00	0.04	1.10E-06	6.31E-07	3.94E-05	9.46E-04	1.79E-06	2.63E-07	5.78E-07	9.90E-04
UH-2	0.075	0.00	0.00	0.000	0.03	0.00	0.03	6.90E-07	3.94E-07	2.46E-05	5.91E-04	1.12E-06	1.64E-07	3.61E-07	6.19E-04
UH-3	0.075	0.00	0.00	0.000	0.03	0.00	0.03	6.90E-07	3.94E-07	2.46E-05	5.91E-04	1.12E-06	1.64E-07	3.61E-07	6.19E-04
UH-4	0.075	0.00	0.00	0.000	0.03	0.00	0.03	6.90E-07	3.94E-07	2.46E-05	5.91E-04	1.12E-06	1.64E-07	3.61E-07	6.19E-04
UHDC-1	0.12	0.00	0.00	0.000	0.05	0.00	0.04	1.10E-06	6.31E-07	3.94E-05	9.46E-04	1.79E-06	2.63E-07	5.78E-07	9.90E-04
UHDC-2	0.12	0.00	0.00	0.000	0.05	0.00	0.04	1.10E-06	6.31E-07	3.94E-05	9.46E-04	1.79E-06	2.63E-07	5.78E-07	9.90E-04
Make Up Air Unit															
AMU-1	0.4	0.01	0.01	0.001	0.18	0.01	0.15	3.68E-06	2.10E-06	1.31E-04	3.15E-03	5.96E-06	8.76E-07	1.93E-06	3.30E-03
Process Equipment															
EH-1	1.5	0.05	0.05	0.004	0.66	0.04	0.55	1.38E-05	7.88E-06	4.93E-04	1.18E-02	2.23E-05	3.29E-06	7.23E-06	1.24E-02
Gas Heat Exchanger															
HE-1	0.12	0.00	0.00	0.000	0.05	0.00	0.04	1.10E-06	6.31E-07	3.94E-05	9.46E-04	1.79E-06	2.63E-07	5.78E-07	9.90E-04
Al melting furnace															
MF-1	0.5	0.02	0.02	0.001	0.22	0.01	0.18	4.60E-06	2.63E-06	1.64E-04	3.94E-03	7.45E-06	1.10E-06	2.41E-06	4.12E-03
MF-2	0.5	0.02	0.02	0.001	0.22	0.01	0.18	4.60E-06	2.63E-06	1.64E-04	3.94E-03	7.45E-06	1.10E-06	2.41E-06	4.12E-03
MF-3	0.5	0.02	0.02	0.001	0.22	0.01	0.18	4.60E-06	2.63E-06	1.64E-04	3.94E-03	7.45E-06	1.10E-06	2.41E-06	4.12E-03
MF-4	0.7	0.02	0.02	0.002	0.31	0.02	0.26	6.44E-06	3.88E-06	2.30E-04	5.52E-03	1.04E-05	1.53E-06	3.37E-06	5.77E-03
Total	8.9	0.30	0.30	0.023	3.90	0.21	3.28	8.2E-05	4.7E-05	2.9E-03	0.070	1.3E-04	2.0E-05	4.3E-05	7.3E-02

*PM and PM10 emission factors are condensable and filterable PM10 combined.
 Emission factors are from AP-42, Chapter 1.4, Tables 1.4-1, 1.4-2, and 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (AP-42 Supplement D 3/98)

Methodology

Potential Throughput (MMCF/yr) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu
 Potential to Emit (tons/yr) = Potential Throughput (MMCF/yr) x Emission Factor (lbs/MMCF) x 1 ton/2000 lbs
 All emission factors are based on normal firing.
 MMBtu = 1,000,000 Btu, MMCF = 1,000,000 Cubic Feet of Gas

**Appendix A: Emissions Calculations
Aluminum Melting**

Company Name: FCC (Adams), LLC
Address City IN Zip: 936 East Parr Rd, Berne, Indiana, 46711
Permit Number: 001-28538-00064
Reviewer: Jillian Bertram
Date: 10/13/2009

	Emission Factor lb/ton	PM*	PM10*
	Maximum Aluminum Processed (lbs/hr)	1.1	1.1
Unit ID		PTE of PM (tons/yr)	PTE of PM10 (tons/yr)
MF-1	500	1.20	1.20
MF-2	500	1.20	1.20
MF-3	500	1.20	1.20
MF-4	441	1.06	1.06
Total	1941.0	4.68	4.68

*Note: Emission factor are from STAPPA/ALAPCA Handbook, Section 11 (5/30/91)

Methodology

Potential Emissions (lbs/hr) = Maximum Aluminum Processed (lbs/hr) x 1 ton/2,000 lb x Emission Factor (lb/ton Al processed)
 Potential Emissions (tons/yr) = Potential Emissions (lbs/hr) * 8,760 hrs/yr x 1 ton/2,000 lb

**Appendix A: Emissions Calculations
Die Casting**

**Company Name: FCC (Adams), LLC
Address City IN Zip: 936 East Parr Rd, Berne, Indiana, 46711
Permit Number: 001-28538-00064
Reviewer: Jillian Bertram
Date: 10/13/2009**

Pollutant

Emission Factor in lb/ton Al processed				NOx*	SOx*	VOC*
				0.01	0.02	0.14
Unit ID	Maximum Cycles/hr	Casting Weight (lbs)	Maximum Aluminum Processed (tons/hr)	PTE of NOx (tons/yr)	PTE of SOx (tons/yr)	PTE of VOC (tons/yr)
DC-1	85	2.1125	0.090	0.00	0.01	0.06
DC-2	85	2.1125	0.090	0.00	0.01	0.06
DC-3	78	3.175	0.124	0.01	0.01	0.08
DC-4	78	3.175	0.124	0.01	0.01	0.08
Total			0.427	0.02	0.04	0.26

*NOx, SOx, and VOC emission factors are from Fire Version 6.25 for Aluminum Pouring/Casting (SIC 30400114)

Methodology

Maximum Aluminum Processed (tons/hr) = Maximum Cycles / hr * Casting Weight (lbs/cycle)

Potential Emissions (tons/yr) = Maximum Aluminum Processed (tons/hr) * Emission Factor (lb/ton Al processed) * 1 ton / 2,000 lb * 8,760 hr / yr

**Appendix A: Emissions Calculations
Shot Blasting**

Company Name: FCC (Adams), LLC
Address City IN Zip: 936 East Parr Rd, Berne, Indiana, 46711
Permit Number: 001-28538-00064
Reviewer: Jillian Bertram
Date: 10/13/2009

0.192 kg Weight of full dust collection container:
 0.026 kg Weight of empty dust collection container:
 0.166 kg Weight of dust collected during test

0.366 lb Weight of dust collected during test

1,232 parts Number of parts run during test

PM/PM10 Collected During Test	Control Efficiency of Shot Blast Filters	Total PM/PM10 Generated During Test	Number of Parts Run During Test	PM/PM10 Emissions per Part	PM/PM10 Emissions per Part
(lbs)	(%)	(lbs)	(parts)	(lb/part)	(lb/ 1,000 part)
0.366	95%	0.385	1,232	0.0003127	0.313

Emission Factor lbs/1000 parts		PM*	PM10*						
		0.313	0.313						
Unit ID	Maximum Throughput Rate (parts/hr)	PTE of PM (tons/yr)	PTE of PM10 (tons/yr)	PTE of PM/PM10 lbs/hr	Filter Control Efficiency	Controlled PTE of PM (tons/yr)	Controlled PTE of PM10 (tons/yr)	Allowable PM/PM10 Emissions (lbs/hr)	
SB-1	2172	2.98	2.98	0.68	99.0%	0.03	0.03	#REF!	
SB-2	2172	2.98	2.98	0.68	99.0%	0.03	0.03	#REF!	
SB-3	2172	2.98	2.98	0.68	99.0%	0.03	0.03	#REF!	
SB-4	2172	2.98	2.98	0.68	99.0%	0.03	0.03	#REF!	
Total	8688.0	11.91	11.91	2.72		0.12	0.12		

Total Abrasives throughput per shot blast =14,072 lbs/hr

*PM and PM10 emission factors are derived from the data collected by FCC (Adams) .

*Total PM/PM10 generated during test (lbs) = PM/PM10 collected during test (lbs)/ control Efficiency of shot blast filters(%)

*Emission Factor (lb/part) =Total PM/PM10 generated during test (lbs)/ Number of parts run during the test

Maximum process throughput = (weight of shot blast + weight of parts) = (14072+ 2172*1.141) =16,550.25 lbs/hr

Maximum process throughput =(16550.25 lbs/hr) *1/2000 tons/lbs= 8.28 tons/hr

Methodology

Potential Emissions (parts/hr) = Maximum Throughput Rate (parts/hr) x Emission Factor (lb/1,000 lb parts Throughput)

Potential Emissions (tons/yr) = Potential Emissions (lb/hr) * 8,760 hrs/yr x 1 ton/2,000 lb

Controlled PTE of PM (tons/yr) = PTE of PM (tons/yr) x (1 - Filter Control Efficiency)

**Appendix A: Emissions Calculations
Lathe Operations**

Company Name: FCC (Adams), LLC
Address City IN Zip: 936 East Parr Rd, Berne, Indiana, 46711
Permit Number: 001-28538-00064
Reviewer: Jillian Bertram
Date: 10/13/2009

Seal Cool 3990 Information

specific gravity	1.10
density (lb/ft ³)	68.64
density (lb/gal)	9.18
VOC wt %	6.00%

Yumate EC-980 Information

specific gravity	0.91
density (lb/ft ³)	56.78
density (lb/gal)	7.59
VOC wt %	42.70%

VOC Emissions from Lathe Operations

Lathe ID	Lathe Name	Lathe Oil	Product Density (lb/gal)	Potential Coating Usage (gal/unit)	Maximum Product Rate (units/hr)	Flash-off (%)	VOC Content (lbs/gal)	Potential VOC Emissions (lbs/hr)	Potential VOC Emissions (tons/yr)
L-5	RWG Lathe 1	Seal Cool 3990	9.18	1.00E-04	78.50	100%	0.55	0.004	0.02
L-6	RWG Lathe 2	Seal Cool 3990	9.18	1.00E-04	78.50	100%	0.55	0.004	0.02
L-1	A-1 Lathe 1	Seal Cool 3990	9.18	5.74E-04	104.66	100%	0.55	0.033	0.14
L-2	A-2 Lathe 2	Seal Cool 3990	9.18	5.74E-04	52.33	100%	0.55	0.017	0.07
L-3	A-2 Lathe 3	Seal Cool 3990	9.18	5.74E-04	52.33	100%	0.55	0.017	0.07
L-7	A-1 Lathe 4	Seal Cool 3990	9.18	5.74E-04	104.66	100%	0.55	0.033	0.14
L-8	A-2 Lathe 5	Seal Cool 3990	9.18	5.74E-04	52.33	100%	0.55	0.017	0.07
L-4	B Lathe 1	Seal Cool 3990	9.18	2.30E-04	104.66	100%	0.55	0.013	0.06
L-9	B Lathe 2	Seal Cool 3990	9.18	2.30E-04	104.66	100%	0.55	0.013	0.06
LDC-1	DC-A-1 Lathe 1	Yumate EC-980	7.59	5.74E-04	52.33	100%	3.24	0.097	0.43
LDC-2	DC-A-1 Lathe 2	Yumate EC-980	7.59	5.74E-04	52.33	100%	3.24	0.097	0.43
LDC-3	DC-A-1 Lathe 3	Yumate EC-980	7.59	5.74E-04	52.33	100%	3.24	0.097	0.43
LDC-4	DC-A-2 Lathe 4	Yumate EC-980	7.59	5.74E-04	78.50	100%	3.24	0.146	0.64
LDC-5	DC-B-1 Lathe 1	Yumate EC-980	7.59	5.74E-04	78.50	100%	3.24	0.146	0.64
LDC-6	DC-B-1 Lathe 2	Yumate EC-980	7.59	5.74E-04	78.50	100%	3.24	0.146	0.64
LDC-7	DC-B-2 Lathe 3	Yumate EC-980	7.59	5.74E-04	78.50	100%	3.24	0.146	0.64
LDC-8	DC-B-2 Lathe 4	Yumate EC-980	7.59	5.74E-04	78.50	100%	3.24	0.146	0.64
LDC-9	DC-B-2 Lathe 5	Yumate EC-980	7.59	5.74E-04	78.50	100%	3.24	0.146	0.64
L-10	OP0 Flow Form Lathe	Seal Cool 3990	9.18	1.72E-03	60.00	100%	0.55	0.057	0.25
L-11	OP10 Flow Form Lathe	Seal Cool 3990	9.18	1.72E-03	60.00	100%	0.55	0.057	0.25
L-12	OP20 Flow Form Lathe	Seal Cool 3990	9.18	1.72E-03	60.00	100%	0.55	0.057	0.25
L-13	OP30 Flow Form Lathe	Seal Cool 3990	9.18	1.72E-03	60.00	100%	0.55	0.057	0.25
L-14	OP20 Flow Form Lathe 2	Seal Cool 3990	9.18	1.72E-03	60.00	100%	0.55	0.057	0.25
L-15	OP30 Flow Form Lathe 2	Seal Cool 3990	9.18	1.72E-03	60.00	100%	0.55	0.057	0.25
LDC-10	6R140 DC Lathe 1	Yumate EC-980	7.59	1.72E-03	60.00	100%	3.24	0.335	1.47
LDC-11	6R140 DC Lathe 2	Yumate EC-980	7.59	1.72E-03	60.00	100%	3.24	0.335	1.47
LDC-12	Manual West DC Lathe	Yumate EC-980	7.59	5.74E-04	78.50	100%	3.24	0.146	0.64
LDC-13	Manual East DC Lathe	Yumate EC-980	7.59	5.74E-04	78.50	100%	3.24	0.146	0.64
LDC-14	6R140 DC Lathe 3	Yumate EC-980	7.59	1.15E-03	60.00	100%	3.24	0.224	0.98
LDC-15	6R140 DC Lathe 4	Yumate EC-980	7.59	1.15E-03	60.00	100%	3.24	0.224	0.98
LDC-16	6R80 DC Lathe	Yumate EC-980	7.59	5.74E-04	52.33	100%	3.24	0.097	0.43
LDC-17	6R80 DC Lathe	Yumate EC-980	7.59	5.74E-04	78.50	100%	3.24	0.146	0.64
									14.51

Methodology

Potential VOC Emissions (lbs/hr) = Potential Coating Usage (gal/unit) x Maximum Product Rate (units/hr) x Flash-off (%) x VOC Content (lbs/gal)
 Potential Emissions (tons/yr) = Potential Emissions (lb/hr) * 8,760 hrs/yr x 1 ton/2,000 lb
 100 % Flash off of VOC emissions

**Appendix A: Emissions Calculations
Parts Washer Activities**

**Company Name: FCC (Adams), LLC
Address City IN Zip: 936 East Parr Rd, Berne, Indiana, 46711
Permit Number: 001-28538-00064
Reviewer: Jillian Bertram
Date: 10/13/2009**

Emission Unit	Description	Chemical Used	Specific Gravity	Product Density [lb/gal]	VOC Content [lb/gal]	Typical Annual Chemical Usage [gal/yr]	Max. Annual Chemical Usage [gal/yr]	Max. Hourly Chemical Usage [gal/hr]	Max. Hourly Chemical Usage [gal/hr]	Max. Hourly Chemical Usage [gal/hr]	Potential VOC Emissions [lb/hr]	Potential VOC Emissions [tpy]
WDC-1	Die Cast Washer 1	J&B 1097	1.04	8.65	0.26	104	156	0.018	0.43	0.285	0.005	0.020
WDC-2	Die Cast Washer 2	Water							0			
W-1	Press Washer	Kleen-Eze 305	1.06	8.84	0.00	1560	2340	0.267	6.41	4.274	0.000	0.000
W-3	Hub Washer	J&B 1097	1.04	8.65	0.26	520	780	0.089	2.14	1.425	0.023	0.101
W-2	Deburr Washer	J&B 1097	1.04	8.65	0.26	416	624	0.071	1.71	1.140	0.018	0.081
W-4	Assembly Washer	M-1	1.05	8.76	0.88	1300	1950	0.223	5.34	3.562	0.195	0.854
W-5	RWG Washer	J&B 1097	1.04	8.65	0.26	104	156	0.018	0.43	0.285	0.005	0.020
WDC-3	Die Cast Washer 3	Water										
W-6	Flow Forming Washer	J&B 1097	1.04	8.67	0.26	208	312	0.036	0.85	0.570	0.009	0.041
W-7	Assembly Washer	M-1	1.05	8.76	0.88	360	540	0.062	1.48	0.986	0.054	0.238
W-8	Die Cleaning Washer	SK Premium	0.82	6.84	6.84	45	67.5	0.008	0.18	0.123	0.053	0.231
Total:												1.585

Methodology

Product Density [lb/gal] = Specific Gravity x 8.34 lb/gal
 Increased the typical annual chemical usage by 50% to estimate a maximum annual chemical usage.
 Max. Hourly Chemical Usage [gal/hr] = Max. Annual Solvent Usage [gal/yr] / 8,760 hr/yr
 Potential VOC Emissions [lb/hr] = Max. Hourly Solvent Usage [gal/hr] x VOC Content [lb/gal]
 Potential VOC Emissions [tpy] = Potential VOC Emissions [lb/hr] x 8,760 hr/yr / 2,000 lb/ton

**Appendix A: Emissions Calculations
Source-wide Emission Summary**

Company Name: FCC (Adams), LLC
Address City IN Zip: 936 East Parr Rd, Berne, Indiana, 46711
Permit Number: 001-28538-00064
Reviewer: Jillian Bertram
Date: 10/13/2009

Emission Unit	PM (tons/yr)	PM10 (tons/yr)	SO2 (tons/yr)	VOC (tons/yr)	CO (tons/yr)	NOx (tons/yr)	Single HAP (tons/yr)	Total HAP (tons/yr)
Main Building Units								
Shot Blasting (SB-4)	2.98	2.98	0.00	0.00	0.00	0.00	0.00	0.00
Parts Washing (W-1 through W-8)	0.00	0.00	0.00	1.57	0.00	0.00	0.00	0.00
Lathes (L-1 through L-15)	0.00	0.00	0.00	2.15	0.00	0.00	0.00	0.00
Combustion (RTU-1 through RTU-9, UH-1 through UH-4, AMU-1, HE-1, EH-1)	0.19	0.19	0.01	0.14	2.11	2.50	0.04	0.05
Die Cast Building Units								
Melting Furnaces (Process) (MF-1 through MF-4)	4.68	4.68	0.00	0.00	0.00	0.00	0.00	0.00
Die Casting (DC-1 through DC-4)	0.00	0.00	0.04	0.26	0.00	0.02	0.00	0.00
Shot Blasting (SB-1 through SB-3)	8.93	8.93	0.00	0.00	0.00	0.00	0.00	0.00
Parts Washing (WDC-1 through WDC-3)	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
Lathes (LDC-1 through LDC-17)	0.00	0.00	0.00	12.35	0.00	0.00	0.00	0.00
Combustion (RTUDE-1 through RTUDE-3, UHDC-1, UHDC-2, MF-1 through MF-4)	0.11	0.11	0.01	0.08	1.18	1.41	0.03	0.03
Total	16.88	16.88	0.06	16.57	3.29	3.92	0.07	0.07



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

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

TO: F. Scot Shaffer
FCC (Adams), LLC
936 E Parr Road
Berne, IN 46711

DATE: November 18, 2009

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

SUBJECT: Final Decision
Registration
001-28538-00064

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:
Hiroyuki Saruta - President
Joseph VanCamp - Cornerstone Environmental, Health & Safety, Inc.
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at jbrush@idem.IN.gov.

Final Applicant Cover letter.dot 11/30/07

Mail Code 61-53

IDEM Staff	GHOTOPP 11/18/2009 FCC (Adams), LLC 001-28538-00064 Final		Type of Mail: CERTIFICATE OF MAILING ONLY	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		F. Scot Shaffer FCC (Adams), LLC 936 E Parr Rd Berne IN 46711 (Source CAATS) via confirmed delivery										
2		Hiroyuki Saruta President FCC (Adams), LLC 936 E Parr Rd Berne IN 46711 (RO CAATS)										
3		Adams County Commissioners 313 West Jefferson Street Decatur IN 46733 (Local Official)										
4		Adams County Health Department County Svcs Complex, 313 W. Jefferson # 314 Decatur IN 46733-1673 (Health Department)										
5		Mr. Joseph VanCamp Cornerstone Environmental, Health & Safety, Inc. 8907 Gerig Road Leo IN 45765-9679 (Consultant)										
6		Berne City Council and Mayors Office 158 W. Franklin St. Berne IN 46711 (Local Official)										
7												
8												
9												
10												
11												
12												
13												
14												
15												

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See Domestic Mail Manual R900, S913, and S921 for limitations of coverage on inured and COD mail. See International Mail Manual for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
5			