



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: December 13, 2012

RE: FCC (Adams), LLC / 001-32552-00064

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

Notice of Decision – Approval

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 326 IAC 2, this approval was effective immediately upon submittal of the application.

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 from the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures
FNPER-AM.dot12/3/07



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December 13, 2012

Sandra Affolder
FCC (Adams), LLC
936 East Parr Road
Berne, IN 46711

Re: 001-32552-00064
Administrative Amendment to
M001-30901-00064

Dear Sandra Affolder:

FCC (Adams), LLC was issued a Minor Source Operating Permit (MSOP) No. M001-30901-00064 on January, 3 2012 for a stationary clutch manufacturing facility located at 936 East Parr Road, Berne, Indiana. On November 27, 2012, the Office of Air Quality (OAQ) received an application from the source requesting to add one shot blast machine and two new die casting machines to the list of emission units for the Die Cast Building.

Pursuant to 326 IAC 2-6.1-6(d)(8), this change to the permit is considered an administrative amendment because the permit is amended to incorporate a modification that adds an emissions unit or units of the same type that is already permitted or replaces an existing unit and that will comply with the same applicable requirements and permit terms and conditions as the existing emission unit, and the modification does not result in a potential to emit greater than the thresholds in 326 IAC 2-2 (PSD) or 326 IAC 2-3 (Emission Offset) or would result in a potential to emit equal to or greater than the thresholds in 326 IAC 2-7 (Part 70 Operating Permit).

The following are descriptions of the new emissions units:

- (a) One (1) shot blasting unit, identified as SB-6, approved for construction in 2012, with a maximum throughput of 2,172 parts per hour, controlled using bag filters and venting indoors.
- (b) One (1) die cast machine, identified as DC-6, approved for construction in 2012, with a maximum capacity of 0.09 tons per hour and 85 cycles per hour, venting indoors.
- (c) One (1) die cast machine, identified as DC-7, approved for construction in 2012, with a maximum capacity of 0.120 tons per hour and 78 cycles per hour, venting indoors.

The PTE of the new emission units are as follows:

Process/ Emission Unit	PTE of Proposed Modification (tons/year)									
	PM	PM10	PM2.5	SO ₂	NO _x	VOC	CO	GHGs as CO ₂ e	Total HAPs	Worst Single HAP
SB-6	2.98*	2.98*	2.98*	-	-	-	-	-	-	-
DC-6	-	-	-	0.01	0.00	0.06	-	-	-	-
DC-7	-	-	-	0.01	0.01	0.08	-	-	-	-
Total PTE of Proposed Modification	2.98	2.98	2.98	0.02	0.01	0.13	-	-	-	-

*PTE calculated using a source-specific emission factor

The uncontrolled/unlimited potential to emit of the entire source after the addition of this emission unit will continue to be within the threshold levels specified in 326 IAC 2-5.1 (MSOP). (See Appendix A for the calculations).

The addition of the emission unit will not cause the source's potential to emit to be greater than the threshold levels specified in 326 IAC 2-2 (PSD), 326 IAC 2-3 (Emission Offset) or 326 IAC 2-7 (Part 70).

See Appendix A for the calculation and the PTE of the entire source after the addition of the emission unit.

No new state rules are applicable to this source due to the addition of the emission unit.

PTE of the Entire Source After Issuance of the MSOP Administrative Amendment

The table below summarizes the potential to emit of the entire source, with updated emissions shown as **bold** values and previous emissions shown as ~~values~~.

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of MSOP Administrative Amendment (tons/year)									
	PM	PM10*	PM2.5	SO ₂	NO _x	VOC	CO	GHGs as CO _{2e} **	Total HAPs	Worst Single HAP
Main Building Units										
Shot Blasting	2.98	2.98	2.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Parts Washing	0.0	0.0	0.0	0.0	0.0	2.28	0.0	0.0	0.0	0.0
Lathes	0.0	0.0	0.0	0.0	0.0	3.13	0.0	0.0	0.0	0.0
Oil Hole Machines	0.0	0.0	0.0	0.0	0.0	4.36	0.0	0.0	0.0	0.0
Combustion Units	0.05	0.19	0.19	0.01	2.50	0.14	2.10	3,014.15	0.05	0.045 (Hexane)
Die Casting Building Units										
Melting Furnaces	5.88	5.88	5.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Die Casting	0.0	0.0	0.0	0.05 0.07	0.02 0.03	0.34 0.47	0.0	0.0	0.0	0.0
Shot Blasting	11.91 14.89	11.91 14.89	11.91 14.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Parts Washing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lathes	0.0	0.0	0.0	0.0	0.0	25.96	0.0	0.0	0.0	0.0
Combustion Units	0.05	0.20	0.20	0.02	2.62	0.14	2.20	3,162.22	0.05	0.047 (Hexane)
Total PTE of Entire Source	20.87 23.85	21.16 24.14	21.16 24.14	0.08 0.10	5.14 5.15	36.35 36.48	4.30	6,176.37	0.10	0.09
Title V Major Source Thresholds**	NA	100	100	100	100	100	100	100,000	25	10
PSD Major Source Thresholds**	250	250	250	250	250	250	250	100,000	NA	NA
negl. = negligible *Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant". **The 100,000 CO _{2e} threshold represents the Title V and PSD subject to regulation thresholds for GHGs in order to determine whether a source's emissions are a regulated NSR pollutant under Title V and PSD.										

The table below summarizes the potential to emit of the entire source after issuance of this revision, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this MSOP permit revision, and only to the extent that the effect of the control equipment is made practically enforceable in the permit. (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 After Issuance of MSOP Administrative Amendment (tons/year)									
	PM	PM10*	PM2.5	SO ₂	NO _x	VOC	CO	GHGs as CO ₂ e**	Total HAPs	Worst Single HAP
Main Building Units										
Shot Blasting	2.98	2.98	2.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Parts Washing	0.0	0.0	0.0	0.0	0.0	2.28	0.0	0.0	0.0	0.0
Lathes	0.0	0.0	0.0	0.0	0.0	3.13	0.0	0.0	0.0	0.0
Oil Hole Machines	0.0	0.0	0.0	0.0	0.0	4.36	0.0	0.0	0.0	0.0
Combustion Units	0.05	0.19	0.19	0.01	2.50	0.14	2.10	3,014.15	0.05	0.045 (Hexane)
Die Casting Building Units										
Melting Furnaces	5.88	5.88	5.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Die Casting	0.0	0.0	0.0	0.07	0.03	0.47	0.0	0.0	0.0	0.0
Shot Blasting	14.89	14.89	14.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Parts Washing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lathes	0.0	0.0	0.0	0.0	0.0	25.96	0.0	0.0	0.0	0.0
Combustion Units	0.05	0.20	0.20	0.02	2.62	0.14	2.20	3,162.22	0.05	0.047 (Hexane)
Total PTE of Entire Source	23.85	24.14	24.14	0.10	5.15	36.48	4.30	6,176.37	0.10	0.09
Title V Major Source Thresholds**	NA	100	100	100	100	100	100	100,000	25	10
PSD Major Source Thresholds**	250	250	250	250	250	250	250	100,000	NA	NA
negl. = negligible *Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant". **The 100,000 CO ₂ e threshold represents the Title V and PSD subject to regulation thresholds for GHGs in order to determine whether a source's emissions are a regulated NSR pollutant under Title V and PSD.										

Pursuant to the provisions of 326 IAC 2-6.1-6, the permit is hereby amended as follows with the deleted language as strikeouts and new language **bolded**.

A.2 Emission Units and Pollution Control Equipment Summary

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

.....

Die Cast Building Emission Units:

- (g) **Five Seven (57)** 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 and 85 cycles per hour, venting indoors.
 -
 - (6) **DC-6, approved for construction in 2012, with a maximum capacity of 0.09 tons of aluminum per hour and 85 cycles per hour, venting indoors.**
 - (7) **DC-7, approved for construction in 2012, with a maximum capacity of 0.12 tons of aluminum per hour and 78 cycles per hour, venting indoors.**

- (h) ~~Four~~ **Five (45)** shot blasting units, including;

- (4) SB-5, ~~approved for construction~~ **constructed** in 2011, with a maximum zinc based media capacity of 14,072 pounds per hour and a maximum metal part capacity of 2,478.25 pounds per hour, controlled by bag filters, venting indoors.
- (5) **SB-6, approved for construction in 2012, with a maximum zinc based media capacity of 14,072 pounds per hour and a maximum metal part capacity of 2,478.25 pounds per hour, controlled by bag filters, venting indoors.**

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:
Die Cast Building Emission Units:
(h) Four Five (45) shot blasting units, including;
(4) SB-5, approved for construction constructed in 2011, with a maximum zinc based media capacity of 14,072 pounds per hour and a maximum metal part capacity of 2,478.25 pounds per hour, controlled by bag filters, venting indoors.
(5) SB-6, approved for construction in 2012, with a maximum zinc based media capacity of 14,072 pounds per hour and a maximum metal part capacity of 2,478.25 pounds per hour, controlled by bag filters, venting indoors.

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

Unit Description	Max. Throughput Rate (tons/hr)*	Particulate Emission Limit (lbs/hr)
Shot Blasting Unit (SB-1)	8.28	16.90
Shot Blasting Unit (SB-2)	8.28	16.90
Shot Blasting Unit (SB-3)	8.28	16.90
Shot Blasting Unit (SB-4)	1.66	5.76
Shot Blasting Unit (SB-5)	8.28	16.90
Shot Blasting Unit (SB-6)	8.28	16.90

*Maximum throughput rate per unit = Weight of Shot Blast Media + Weight of Metal Parts

Additional Changes

IDEM, OAQ has decided revise to Condition D.1.6 of the permit in order to provide clarification as follows:

D.1.6 Reporting Requirements

Quarterly summaries of the information to document the compliance status with Condition D.1.2 shall be submitted **using the reporting forms located at the end of this permit, or their equivalent**, not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition.

.....

All other conditions of the permit shall remain unchanged and in effect. Attached please find the entire revised permit.

A copy of the permit is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>. 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

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Adam Wheat, of my staff, at 317-233-8397 or 1-800-451-6027, and ask for extension 3-8397.

Sincerely,



Nathan Bell, Section Chief
Permits Branch
Office of Air Quality

Attachments: Updated Permit and Appendix A

NB/AW

cc: File - Adams County
Adams County Health Department
U.S. EPA, Region V
Compliance and Enforcement Branch
Billing, Licensing and Training Section



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New Source Review and Minor Source Operating Permit OFFICE OF AIR QUALITY

**FCC (Adams), LLC
936 East Parr Road
Berne, Indiana 46711**

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

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a MSOP under 326 IAC 2-6.1.

Operation Permit No.: M001-30901-00064	
Issued by: Original signed by: Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: January 3, 2012 Expiration Date: January 3, 2017

Administrative Amendment No. 001-32552-00064	
Issued by:  Nathan Bell, Section Chief Permits Branch Office of Air Quality	Issuance Date: December 13, 2012 Expiration Date: January 3, 2017

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SECTION A SOURCE SUMMARY

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

A.1 General Information [326 IAC 2-5.1-3(c)][326 IAC 2-6.1-4(a)]

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

Source Address:	936 East Parr Road, Berne, Indiana 46711
General Source Phone Number:	(260) 589-8555
SIC Code:	3714 (Motor Vehicle Parts and Accessories)
County Location:	Adams
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary

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, constructed in 2010, with a maximum glass bead based media capacity of 850 pounds per hour and a maximum metal part capacity of 2,478.25 pounds per hour, controlled by bag filters and venting indoors.
- (b) Eleven (11) 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. This solution does not contain VOC;
 - (2) One (1) Deburr washer, identified as W-2, constructed in 2006, using 416 gallons of Tech 7610M 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) 6R140 Clutch Assembly washer (West), identified as W-4, constructed in 2006, using 1300 gallons of Tech 7610M 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, constructed in 2009, using 208 gallons of Tech 7610M solution per year;
 - (7) One (1) 6R80 A/B Clutch Assembly washer (East), identified as W-7, constructed in 2009, using 540 gallons of Tech 7610M solution per year;

- (8) One (1) Die Cleaning Machine, identified as W-8, constructed in 2009, using 68 gallons of Safety-Kleen Premium Solvent per year;
 - (9) One (1) Stoeling Hub Line washer, identified as W-9, constructed in 2009, using a maximum of 312 gallons per year of J&B 1097 as the cleaning solution;
 - (10) One (1) Stoeling AV4 EBW Line washer, identified as W-10, approved for construction in 2011, using 312 gallons of Tech Clean 7610M solution per year; and
 - (11) One (1) 60R80 Assembly Line washer, identified as W-11, approved for construction in 2011, using 540 gallons of Tech Clean 7610M solution per year.
- (c) Nineteen (19) 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) 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;
 - (7) 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;
 - (8) 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;
 - (9) One (1) OP0 Flow Form Lathe, identified as L-10, constructed in 2009, with a maximum production rate of 60.0 units per hour, using Seal Cool 3990 as a cutting coolant oil;
 - (10) One (1) OP10 Flow Form Lathe, identified as L-11, constructed 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) OP20 Flow Form Lathe, identified as L-12, constructed 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) OP30 Flow Form Lathe, identified as L-13, constructed 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) OP20 Flow Form Lathe 2, identified as L-14, constructed 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) OP30 Flow Form Lathe 2, identified as L-15, constructed 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) OP10/20 West Hub Line Lathe, identified as L-16, constructed in 2010, with a maximum production rate of 40.0 units per hour, using Seal Cool 3990 as a cutting coolant oil;
 - (16) One (1) OP10/20 East Hub Line Lathe, identified as L-17, constructed in 2010, with a maximum production rate of 40.0 units per hour, using Seal Cool 3990 as a cutting coolant oil;
 - (17) One (1) OP30/40 West Hub Line Lathe, identified as L-18, constructed in 2010, with a maximum production rate of 40.0 units per hour, using Seal Cool 3990 as a cutting coolant oil;
 - (18) One (1) OP30/40 East Hub Line Lathe, identified as L-19, constructed in 2010, with a maximum production rate of 40.0 units per hour, using Seal Cool 3990 as a cutting coolant oil; and
 - (19) One (1) OP50 Hub Line Lathe, identified as L-20, constructed in 2010, with a maximum production rate of 80.0 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, constructed 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.

- (e) Three (3) Oil Machines, consisting of the following:
- (1) One (1) Oil Hole machine (Drill) #1 on Hub Line, identified as OH-1, constructed in 2010, with a maximum production rate of 350.0 units per hour, using Seal Cool 3990 as a cutting coolant oil;
 - (2) One (1) Oil Hole machine (Drill) #2 on Hub Line, identified as OH-2, constructed in 2010, with a maximum production rate of 350.0 units per hour, using Seal Cool 3990 as a cutting coolant oil; and
 - (3) One (1) Oil Hole machine (Drill) #3 on Hub Line, identified as OH-3, constructed in 2010, with a maximum production rate of 350.0 units per hour, using Seal Cool 3990 as a cutting coolant oil.

Die Cast Building Emission Units:

- (f) Five (5) 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.
 - (5) MF-5, approved for construction in 2011, 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.
- (g) Seven (7) 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 and 85 cycles per hour, venting indoors.
 - (2) DC-2, constructed in 2007, with a maximum capacity of 0.09 tons of aluminum per hour and 85 cycles per hour, venting indoors.
 - (3) DC-3, constructed in 2007, with a maximum capacity of 0.124 tons of aluminum per hour and 78 cycles per hour, venting indoors.
 - (4) DC-4, constructed in 2008, with a maximum capacity of 0.124 tons of aluminum per hour and 78 cycles per hour, venting indoors.
 - (5) DC-5, approved for construction in 2011, with a maximum capacity of 0.124 tons of aluminum per hour and 78 cycles per hour, venting indoors.

- (6) DC-6, approved for construction in 2012, with a maximum capacity of 0.09 tons of aluminum per hour and 85 cycles per hour, venting indoors.
- (7) DC-7, approved for construction in 2012, with a maximum capacity of 0.12 tons of aluminum per hour and 78 cycles per hour, venting indoors.
- (h) Five (5) shot blasting units, including:
 - (1) SB-1, constructed in 2007, with a maximum zinc based media capacity of 14,072 pounds per hour and a maximum metal part capacity of 2,478.25 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 and a maximum metal part capacity of 2,478.25 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 and a maximum metal part capacity of 2,478.25 pounds per hour, controlled by bag filters, venting indoors.
 - (4) SB-5, constructed in 2011, with a maximum zinc based media capacity of 14,072 pounds per hour and a maximum metal part capacity of 2,478.25 pounds per hour, controlled by bag filters, venting indoors.
 - (5) SB-6, approved for construction in 2012, with a maximum zinc based media capacity of 14,072 pounds per hour and a maximum metal part capacity of 2,478.25 pounds per hour, controlled by bag filters, venting indoors.
- (i) Four (4) parts washers, consisting of the following units:
 - (1) One (1) Die Cast Washer 1, identified as WDC-1, constructed in 2007, using water as the washing solution;
 - (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.
 - (4) One (1) Die Cast Washer 4, identified as WDC-4, approved for construction in 2011, using water as the washing solution.
- (j) Twenty-six (26) 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, constructed 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, constructed 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, constructed 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, constructed 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, constructed 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, constructed 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 constructed in 2009, with a maximum production rate of 78.50units per hour, using Yumate EC 980 as a

- cutting coolant oil;
- (18) One (1) A Piston OP-10 NC 6R140 Lathe, identified as LDC-18, approved for construction in 2011, with a maximum production rate of 60.0 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (19) One (1) B Piston OP-10 NC 6R140 Lathe, identified as LDC-19, approved for construction in 2011, with a maximum production rate of 60.0 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (20) One (1) DC Piston Lathe 1, identified as LDC-20, approved for construction in 2011, with a maximum production rate of 115.0 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (21) One (1) DC Piston Lathe 2, identified as LDC-21, approved for construction in 2011, with a maximum production rate of 57.0 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (22) One (1) DC Piston Lathe 3, identified as LDC-22, approved for construction in 2011, with a maximum production rate of 57.0 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (23) One (1) DC Piston Lathe 4, identified as LDC-23, approved for construction in 2011, with a maximum production rate of 57.0 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (24) One (1) DC Piston Lathe 5, identified as LDC-24, approved for construction in 2011, with a maximum production rate of 57.0 units per hour, using Yumate EC 980 as a cutting coolant oil;
 - (25) One (1) DC Piston Lathe 6, identified as LDC-25, approved for construction in 2011, with a maximum production rate of 57.0 units per hour, using Yumate EC 980 as a cutting coolant oil; and
 - (26) One (1) DC Piston Lathe 7, identified as LDC-26, approved for construction in 2011, with a maximum production rate of 57.0 units per hour, using Yumate EC 980 as a cutting coolant oil.
- (k) 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.
 - (3) Six (6) natural gas fired rooftop heaters, identified as RTUDC-4 to RTUDC-9, each approved for construction in 2011, rated at 0.220 MMBtu/hr, each, and exhausting indoors.
 - (4) Five (5) natural gas propeller unit heaters, identified as UHDC-3 through UHDC-7, each approved for construction in 2011, with four (4) rated at 0.20 MMBtu/hr, each, and one (1) rated at 0.15 MMBtu/hr, and exhausting indoors.

- (I) 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) Five (5) grob machines and presses; constructed in 2004, 2005, 2007, and 2011, respectively; utilizing Draw-Eze 571 as a machining fluid. There are no criteria pollutants or HAPs emitted from this process;
 - (2) Seven (7) 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;
 - (15) Several miscellaneous assembly operations using mechanical processes;
 - (16) One (1) Bushing Press;
 - (17) One (1) Gear Shaping Machine; and
 - (18) One (1) trim machine and robot.

SECTION B GENERAL CONDITIONS

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

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

B.2 Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

- (a) This permit, M001-30901-00064, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

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

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

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

B.4 Enforceability

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

B.5 Severability

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

B.6 Property Rights or Exclusive Privilege

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

B.7 Duty to Provide Information

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

B.8 Annual Notification [326 IAC 2-6.1-5(a)(5)]

- (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 permit.
- (b) The annual notice shall be submitted in the format attached no later than March 1 of each year to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 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.9 Preventive Maintenance Plan [326 IAC 1-6-3]

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

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

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

The Permittee shall implement the PMPs.

- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions.
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.10 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to M001-30901-00064 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 permit.

B.11 Termination of Right to Operate [326 IAC 2-6.1-7(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least one hundred twenty (120) days prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-6.1-7.

B.12 Permit Renewal [326 IAC 2-6.1-7]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-6.1-7. Such information shall be included in the application for each emission unit at this source. The renewal application does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
- (1) Submitted at least one hundred twenty (120) days prior to the date of the expiration of this permit; and
 - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-6.1 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-6.1-4(b), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.13 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (c) The Permittee shall notify the OAQ no later than thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

B.14 Source Modification Requirement

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

B.15 Inspection and Entry

[326 IAC 2-5.1-3(e)(4)(B)][326 IAC 2-6.1-5(a)(4)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

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

- (a) Enter upon the Permittee's premises where a permitted source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.16 Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]

- (a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.

- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

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

The application which shall be submitted by the Permittee does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement notice-only changes addressed in the request for a notice-only change immediately upon submittal of the request. [326 IAC 2-6.1-6(d)(3)]

B.17 Annual Fee Payment [326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees due no later than thirty (30) calendar days of receipt of a bill from IDEM, OAQ.

- (b) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.18 Credible Evidence [326 IAC 1-1-6]

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

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

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

C.2 Permit Revocation [326 IAC 2-1.1-9]

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

- (a) Violation of any conditions of this permit.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.
- (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 permit shall not require revocation of this permit.
- (d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.
- (e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article.

C.3 Opacity [326 IAC 5-1]

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

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

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

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

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

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

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

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

C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

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

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project.

- (e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

- (f) **Demolition and Renovation**
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Licensed Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

Testing Requirements [326 IAC 2-6.1-5(a)(2)]

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

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

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

no later than thirty-five (35) days prior to the intended test date.
- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date.
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.9 Compliance Requirements [326 IAC 2-1.1-11]

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

Compliance Monitoring Requirements [326 IAC 2-6.1-5(a)(2)]

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

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. All monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

C.11 Instrument Specifications [326 IAC 2-1.1-11]

- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.

- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

Corrective Actions and Response Steps

C.12 Response to Excursions or Exceedances

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

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

C.13 Actions Related to Noncompliance Demonstrated by a Stack Test

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

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

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

C.14 Malfunctions Report [326 IAC 1-6-2]

Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

- (a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.
- (b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.
- (c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).
- (d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.15 General Record Keeping Requirements [326 IAC 2-6.1-5]

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

C.16 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

- (a) Reports required by conditions in Section D of this permit shall be submitted to:

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

- (b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or

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

- (c) The first report shall cover the period commencing on the date of issuance of this permit or the date of initial start-up, whichever is later, and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit, "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

SECTION D.1

EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

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 and a maximum metal part capacity of 2,478.25 pounds per hour, controlled by bag filters and venting indoors.
- (b) Eleven (11) 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. This solution does not contain VOC;
 - (2) One (1) Deburr washer, identified as W-2, constructed in 2006, using 416 gallons of Tech 7610M 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) 6R140 Clutch Assembly washer (West), identified as W-4, constructed in 2006, using 1300 gallons of Tech 7610M 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, constructed in 2009, using 208 gallons of Tech 7610M solution per year;
 - (7) One (1) 6R80 A/B Clutch Assembly washer (East), identified as W-7, constructed in 2009, using 540 gallons of Tech 7610M solution per year;
 - (8) One (1) Die Cleaning Machine, identified as W-8, constructed in 2009, using 68 gallons of Safety-Kleen Premium Solvent per year;
 - (9) One (1) Stoeling Hub Line washer, identified as W-9, constructed in 2009, using a maximum of 312 gallons per year of J&B 1097 as the cleaning solution;
 - (10) One (1) Stoeling AV4 EBW Line washer, identified as W-10, approved for construction in 2011, using 312 gallons of Tech Clean 7610M solution per year; and
 - (11) One (1) 60R80 Assembly Line washer, identified as W-11, approved for construction in 2011, using 540 gallons of Tech Clean 7610M solution per year.

Die Cast Building Emission Units:

- (h) Five (5) shot blasting units, including:
 - (1) SB-1, constructed in 2007, with a maximum zinc based media capacity of 14,072 pounds per hour and a maximum metal part capacity of 2,478.25 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 and a maximum metal part capacity of 2,478.25 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 and a maximum metal part capacity of 2,478.25 pounds per hour, controlled by bag filters, venting indoors.
(4)	SB-5, constructed in 2011, with a maximum zinc based media capacity of 14,072 pounds per hour and a maximum metal part capacity of 2,478.25 pounds per hour, controlled by bag filters, venting indoors.
(5)	SB-6, approved for construction in 2012, with a maximum zinc based media capacity of 14,072 pounds per hour and a maximum metal part capacity of 2,478.25 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 2-6.1-5(a)(1)]

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

Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from each of the shot blasting units shall not exceed the pounds per hour limit listed in the table below:

Unit Description	Max. Throughput Rate (tons/hr)*	Particulate Emission Limit (lbs/hr)
Shot Blasting Unit (SB-1)	8.28	16.90
Shot Blasting Unit (SB-2)	8.28	16.90
Shot Blasting Unit (SB-3)	8.28	16.90
Shot Blasting Unit (SB-4)	1.66	5.76
Shot Blasting Unit (SB-5)	8.28	16.90
Shot Blasting Unit (SB-6)	8.28	16.90

*Maximum throughput rate per unit = Weight of Shot Blast Media + Weight of Metal Parts

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:

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

D.1.2 Volatile Organic Compounds (VOC) [326 IAC 8-1-1] [326 IAC 8-3]

Pursuant to 326 IAC 8-1-1(b), the ten (10) parts washers, identified as W-2 through W-11, shall each use less than fifteen (15) pounds per day of VOC containing solvents.

Compliance with these limits renders the requirements of 326 IAC 8-3-2 (Cold Cleaner Operation), 326 IAC 8-3-4 (Conveyorized Degreaser Operation), 326 IAC 8-3-5 (Cold Cleaner Degreaser Operation and Control), and 326 IAC 8-3-7 (Conveyorized Degreaser Operation and Control) not applicable.

D.1.3 Preventive Maintenance Plan [326 IAC 1-6-3]

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

Compliance Determination Requirements

D.1.4 Particulate Control

In order to comply with Condition D.1.1, the bag filters for particulate control shall be in operation and control emissions from the shot blasting units at all times when the shot blasting units are in operation.

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

D.1.5 Record Keeping Requirement

- (a) To document the compliance status with Condition D.1.2, the Permittee shall maintain records in accordance with (1) through (2) below. Records maintained for (1) through (2) shall be taken as stated below and shall be complete and sufficient to establish compliance with the VOC usage limits established in Condition D.1.2.
- (1) The amount and VOC content of each solvent used in each parts washer for each day. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount of materials used.
 - (2) The total VOC usage for each parts washer each day.
- (b) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

D.1.6 Reporting Requirements

Quarterly summaries of the information to document the compliance status with Condition D.1.2 shall be submitted using the reporting forms located at the end of this permit, or their equivalent, not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition.

Indiana Department of Environmental Management Office of Air Quality Compliance and Enforcement Branch

Source Name: FCC (Adams), LLC
Source Address: 936 East Parr Road, Berne, Indiana 46711
MSOP Permit No.: M001-30901-00064
Source/Facility: Deburr washer (W-2)
Pollutant: VOC Usage
Limit: The part washer, identified as W-2, shall use less than fifteen (15) pounds per day of VOC containing solvents.

Month: _____ Year: _____

Day	VOC Usage this day (lbs/day)	Day	VOC Usage this day (lbs/day)
1		17	
2		18	
3		19	
4		20	
5		21	
6		22	
7		23	
8		24	
9		25	
10		26	
11		27	
12		28	
13		29	
14		30	
15		31	
16		TOTAL	

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

Indiana Department of Environmental Management Office of Air Quality Compliance and Enforcement Branch

Source Name: FCC (Adams), LLC
Source Address: 936 East Parr Road, Berne, Indiana 46711
MSOP Permit No.: M001-30901-00064
Source/Facility: Hub washer (W-3)
Pollutant: VOC Usage
Limit: The parts washer, identified as W-3, shall use less than fifteen (15) pounds per day of VOC containing solvents.

Month: _____ Year: _____

Day	VOC Usage this day (lbs/day)	Day	VOC Usage this day (lbs/day)
1		17	
2		18	
3		19	
4		20	
5		21	
6		22	
7		23	
8		24	
9		25	
10		26	
11		27	
12		28	
13		29	
14		30	
15		31	
16		TOTAL	

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

Indiana Department of Environmental Management Office of Air Quality Compliance and Enforcement Branch

Source Name: FCC (Adams), LLC
Source Address: 936 East Parr Road, Berne, Indiana 46711
MSOP Permit No.: M001-30901-00064
Source/Facility: 6R140 Clutch Assembly washer (West) (W-4)
Pollutant: VOC Usage
Limit: The part washer, identified as W-4, shall use less than fifteen (15) pounds per day of VOC containing solvents.

Month: _____ Year: _____

Day	VOC Usage this day (lbs/day)	Day	VOC Usage this day (lbs/day)
1		17	
2		18	
3		19	
4		20	
5		21	
6		22	
7		23	
8		24	
9		25	
10		26	
11		27	
12		28	
13		29	
14		30	
15		31	
16		TOTAL	

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

Indiana Department of Environmental Management Office of Air Quality Compliance and Enforcement Branch

Source Name: FCC (Adams), LLC
Source Address: 936 East Parr Road, Berne, Indiana 46711
MSOP Permit No.: M001-30901-00064
Source/Facility: RGW washer (W-5)
Pollutant: VOC Usage
Limit: The part washer, identified as W-5, shall use less than fifteen (15) pounds per day of VOC containing solvents.

Month: _____ Year: _____

Day	VOC Usage this day (lbs/day)	Day	VOC Usage this day (lbs/day)
1		17	
2		18	
3		19	
4		20	
5		21	
6		22	
7		23	
8		24	
9		25	
10		26	
11		27	
12		28	
13		29	
14		30	
15		31	
16		TOTAL	

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

Indiana Department of Environmental Management Office of Air Quality Compliance and Enforcement Branch

Source Name: FCC (Adams), LLC
Source Address: 936 East Parr Road, Berne, Indiana 46711
MSOP Permit No.: M001-30901-00064
Source/Facility: Flow Forming Washer (W-6)
Pollutant: VOC Usage
Limit: The part washer, identified as W-6, shall use less than fifteen (15) pounds per day of VOC containing solvents.

Month: _____ Year: _____

Day	VOC Usage this day (lbs/day)	Day	VOC Usage this day (lbs/day)
1		17	
2		18	
3		19	
4		20	
5		21	
6		22	
7		23	
8		24	
9		25	
10		26	
11		27	
12		28	
13		29	
14		30	
15		31	
16		TOTAL	

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

Indiana Department of Environmental Management Office of Air Quality Compliance and Enforcement Branch

Source Name: FCC (Adams), LLC
Source Address: 936 East Parr Road, Berne, Indiana 46711
MSOP Permit No.: M001-30901-00064
Source/Facility: 6R80 A/B Clutch Assembly washer (East) (W-7)
Pollutant: VOC Usage
Limit: The part washer, identified as W-7, shall use less than fifteen (15) pounds per day of VOC containing solvents.

Month: _____ Year: _____

Day	VOC Usage this day (lbs/day)	Day	VOC Usage this day (lbs/day)
1		17	
2		18	
3		19	
4		20	
5		21	
6		22	
7		23	
8		24	
9		25	
10		26	
11		27	
12		28	
13		29	
14		30	
15		31	
16		TOTAL	

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

Indiana Department of Environmental Management Office of Air Quality Compliance and Enforcement Branch

Source Name: FCC (Adams), LLC
Source Address: 936 East Parr Road, Berne, Indiana 46711
MSOP Permit No.: M001-30901-00064
Source/Facility: Die Cleaning Machine (W-8)
Pollutant: VOC Usage
Limit: The part washer, identified as W-8, shall use less than fifteen (15) pounds per day of VOC containing solvents.

Month: _____ Year: _____

Day	VOC Usage this day (lbs/day)	Day	VOC Usage this day (lbs/day)
1		17	
2		18	
3		19	
4		20	
5		21	
6		22	
7		23	
8		24	
9		25	
10		26	
11		27	
12		28	
13		29	
14		30	
15		31	
16		TOTAL	

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

Indiana Department of Environmental Management Office of Air Quality Compliance and Enforcement Branch

Source Name: FCC (Adams), LLC
Source Address: 936 East Parr Road, Berne, Indiana 46711
MSOP Permit No.: M001-30901-00064
Source/Facility: Stoeling Hub Line washer (W-9)
Pollutant: VOC Usage
Limit: The part washer, identified as W-9, shall use less than fifteen (15) pounds per day of VOC containing solvents.

Month: _____ Year: _____

Day	VOC Usage this day (lbs/day)	Day	VOC Usage this day (lbs/day)
1		17	
2		18	
3		19	
4		20	
5		21	
6		22	
7		23	
8		24	
9		25	
10		26	
11		27	
12		28	
13		29	
14		30	
15		31	
16		TOTAL	

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

Indiana Department of Environmental Management Office of Air Quality Compliance and Enforcement Branch

Source Name: FCC (Adams), LLC
Source Address: 936 East Parr Road, Berne, Indiana 46711
MSOP Permit No.: M001-30901-00064
Source/Facility: Stoeling AV4 EBW Line washer (W-10)
Pollutant: VOC Usage
Limit: The part washer, identified as W-10, shall use less than fifteen (15) pounds per day of VOC containing solvents.

Month: _____ Year: _____

Day	VOC Usage this day (lbs/day)	Day	VOC Usage this day (lbs/day)
1		17	
2		18	
3		19	
4		20	
5		21	
6		22	
7		23	
8		24	
9		25	
10		26	
11		27	
12		28	
13		29	
14		30	
15		31	
16		TOTAL	

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

**Indiana Department of Environmental Management
Office of Air Quality
Compliance and Enforcement Branch**

Source Name: FCC (Adams), LLC
Source Address: 936 East Parr Road, Berne, Indiana 46711
MSOP Permit No.: M001-30901-00064
Source/Facility: 60R80 Assembly Line washer (W-11)
Pollutant: VOC Usage
Limit: The part washer, identified as W-11, shall use less than fifteen (15) pounds per day of VOC containing solvents.

Month: _____ Year: _____

Day	VOC Usage this day (lbs/day)	Day	VOC Usage this day (lbs/day)
1		17	
2		18	
3		19	
4		20	
5		21	
6		22	
7		23	
8		24	
9		25	
10		26	
11		27	
12		28	
13		29	
14		30	
15		31	
16		TOTAL	

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

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

**MINOR SOURCE OPERATING PERMIT
ANNUAL NOTIFICATION**

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

Company Name:	FCC (Adams), LLC
Address:	936 East Parr Road
City:	Berne, Indiana 46711
Phone #:	(260) 589-8555
MSOP #:	M001-30901-00064

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

still in operation.

no longer in operation.

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

in compliance with the requirements of MSOP M001-30901-00064.

not in compliance with the requirements of MSOP M001-30901-00064.

Authorized Individual (typed):
Title:
Signature:
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:

MALFUNCTION REPORT

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
FAX NUMBER: (317) 233-6865**

**This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6
and to qualify for the exemption under 326 IAC 1-6-4.**

THIS FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE IT HAS POTENTIAL TO EMIT 25 TONS/YEAR PARTICULATE MATTER ?_____, 25 TONS/YEAR SULFUR DIOXIDE ?_____, 25 TONS/YEAR NITROGEN OXIDES?_____, 25 TONS/YEAR VOC ?_____, 25 TONS/YEAR HYDROGEN SULFIDE ?_____, 25 TONS/YEAR TOTAL REDUCED SULFUR ?_____, 25 TONS/YEAR REDUCED SULFUR COMPOUNDS ?_____, 25 TONS/YEAR FLUORIDES ?_____, 100 TONS/YEAR CARBON MONOXIDE ?_____, 10 TONS/YEAR ANY SINGLE HAZARDOUS AIR POLLUTANT ?_____, 25 TONS/YEAR ANY COMBINATION HAZARDOUS AIR POLLUTANT ?_____, 1 TON/YEAR LEAD OR LEAD COMPOUNDS MEASURED AS ELEMENTAL LEAD ?_____, OR IS A SOURCE LISTED UNDER 326 IAC 2-5.1-3(2) ?_____. EMISSIONS FROM MALFUNCTIONING CONTROL EQUIPMENT OR PROCESS EQUIPMENT CAUSED EMISSIONS IN EXCESS OF APPLICABLE LIMITATION _____.

THIS MALFUNCTION RESULTED IN A VIOLATION OF: 326 IAC _____ OR, PERMIT CONDITION # _____ AND/OR PERMIT LIMIT OF _____

THIS INCIDENT MEETS THE DEFINITION OF "MALFUNCTION" AS LISTED ON REVERSE SIDE ? Y N

THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT ? Y N

COMPANY: _____ PHONE NO. () _____
LOCATION: (CITY AND COUNTY) _____
PERMIT NO. _____ AFS PLANT ID: _____ AFS POINT ID: _____ INSP: _____
CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON: _____

DATE/TIME MALFUNCTION STARTED: ____/____/20____ _____ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: _____

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE ____/____/20____ _____ AM/PM

TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO2, VOC, OTHER: _____

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: _____

MEASURES TAKEN TO MINIMIZE EMISSIONS: _____

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL* SERVICES: _____

CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: _____

CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: _____

INTERIM CONTROL MEASURES: (IF APPLICABLE) _____

MALFUNCTION REPORTED BY: _____ TITLE: _____
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY: _____ DATE: _____ TIME: _____

*SEE PAGE 2

Please note - This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

326 IAC 1-6-1 Applicability of rule

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1.

326 IAC 1-2-39 "Malfunction" definition

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.

***Essential services** are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

If this item is checked on the front, please explain rationale:

**Appendix A: Emissions Calculations
Summary of Emissions**

Company Name: FCC (Adams), LLC
Address City IN Zip: 936 East Parr Rd, Berne, Indiana, 46711
Administrative Amendment: 001-32552-00064
Reviewer: Adam Wheat

Unlimited Potential to Emit (tons/yr)										
Emission Unit	PM	PM10	PM2.5	SO2	NOx	VOC	CO	GHGs as CO2e	Total HAPs	Single HAP
Main Building Units										
Shot Blasting (SB-4)	2.98	2.98	2.98	0	0	0	0	0	0	0
Parts Washing (W-1 through W-11)*	0	0	0	0	0	2.28	0	0	0	0
Lathes (L-1 through L-15)	0	0	0	0	0	3.13	0	0	0	0
Oil Hole Machines (OH-1 through OH-3)	0	0	0	0	0	4.36	0	0	0	0
Combustion (RTU-1 through RTU-9, UH-1 through UH-4, AMU-1, HE-1, EH-1)	0.05	0.19	0.19	0.01	2.50	0.14	2.10	3,014.15	0.05	0.045 Hexane
Die Cast Building Units										
Melting Furnaces (Process) (MF-1 through MF-5)	5.88	5.88	5.88	0	0	0	0	0	0	0
Die Casting (DC-1 through DC-7)	0	0	0	0.07	0.03	0.47	0	0	0	0
Shot Blasting (SB-1, SB-2, SB-3, SB-5 and SB-6)	14.89	14.89	14.89	0	0	0	0	0	0	0
Parts Washing (WDC-1 through WDC-4)	0	0	0	0	0	0	0	0	0	0
Lathes (LDC-1 through LDC-26)	0	0	0	0	0	25.96	0	0	0	0
Combustion (RTUDE-1 through RTUDE-9, UHDC-1 through UHDC-7, MF-1 through MF-5)	0.05	0.20	0.20	0.02	2.62	0.14	2.20	3,162.22	0.05	0.047 Hexane
Total	23.84	24.14	24.14	0.10	5.15	36.48	4.30	6,176.37	0.10	0.09 Hexane

* The source has agreed to limit VOC emissions from each parts washers (W-2 through W-11) to less than fifteen (15) pounds per day. Compliance with these limits will render the requirements of 326 IAC 8-3-2, 326 IAC 8-3-4, 326 IAC 8-3-5, and 326 IAC 8-3-7 not applicable.

**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: 001-32552-00064
Reviewer: Adam Wheat**

PTE CRITERIA POLLUTANTS									PTE HAPs							
Emission Factor in lb/MMCF	PM* 1.9	PM10* 7.6	direct PM2.5* 7.6	SO ₂ 0.6	NO _x 100	VOC 5.5	CO 84.0	Benzene 2.1E-03	DCB 1.2E-03	Form- aldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03	Pb 5.0E-04	Cd 1.1E-03	Total	
Unit ID	Heat Input Capacity (MMBtu/hr)	PTE of PM (tons/yr)	PTE of PM10 (tons/yr)	PTE of PM2.5 (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)	
Roof Top Units																
RTU-1	0.235	0.002	0.008	0.008	0.0006	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	0.004	0.017	0.017	0.0013	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	0.003	0.013	0.013	0.0011	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	0.003	0.013	0.013	0.0011	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	0.003	0.013	0.013	0.0011	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	0.003	0.013	0.013	0.0011	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	0.003	0.013	0.013	0.0011	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	0.003	0.013	0.013	0.0011	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	0.002	0.007	0.007	0.0005	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	0.002	0.008	0.008	0.0007	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	0.003	0.013	0.013	0.0011	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	0.001	0.004	0.004	0.0003	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
RTUDC-4	0.22	0.002	0.007	0.007	0.0006	0.10	0.01	0.08	2.02E-06	1.16E-06	7.23E-05	1.73E-03	3.28E-06	4.82E-07	1.06E-06	1.81E-03
RTUDC-5	0.22	0.002	0.007	0.007	0.0006	0.10	0.01	0.08	2.02E-06	1.16E-06	7.23E-05	1.73E-03	3.28E-06	4.82E-07	1.06E-06	1.81E-03
RTUDC-6	0.22	0.002	0.007	0.007	0.0006	0.10	0.01	0.08	2.02E-06	1.16E-06	7.23E-05	1.73E-03	3.28E-06	4.82E-07	1.06E-06	1.81E-03
RTUDC-7	0.22	0.002	0.007	0.007	0.0006	0.10	0.01	0.08	2.02E-06	1.16E-06	7.23E-05	1.73E-03	3.28E-06	4.82E-07	1.06E-06	1.81E-03
RTUDC-8	0.22	0.002	0.007	0.007	0.0006	0.10	0.01	0.08	2.02E-06	1.16E-06	7.23E-05	1.73E-03	3.28E-06	4.82E-07	1.06E-06	1.81E-03
RTUDC-9	0.22	0.002	0.007	0.007	0.0006	0.10	0.01	0.08	2.02E-06	1.16E-06	7.23E-05	1.73E-03	3.28E-06	4.82E-07	1.06E-06	1.81E-03
Gas Unit Heater																
UH-1	0.12	0.001	0.004	0.004	0.0003	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	0.001	0.002	0.002	0.0002	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	0.001	0.002	0.002	0.0002	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	0.001	0.002	0.002	0.0002	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	0.001	0.004	0.004	0.0003	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	0.001	0.004	0.004	0.0003	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-3	0.15	0.001	0.005	0.005	0.0004	0.07	0.00	0.06	1.38E-06	7.88E-07	4.93E-05	1.18E-03	2.23E-06	3.29E-07	7.23E-07	1.24E-03
UHDC-4	0.2	0.002	0.007	0.007	0.0005	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
UHDC-5	0.2	0.002	0.007	0.007	0.0005	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
UHDC-6	0.2	0.002	0.007	0.007	0.0005	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
UHDC-7	0.2	0.002	0.007	0.007	0.0005	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
Make Up Air Unit																
AMU-1	0.4	0.003	0.01	0.01	0.0011	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	0.01	0.05	0.05	0.0039	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	0.001	0.004	0.004	0.0003	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	0.004	0.02	0.02	0.0013	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	0.004	0.02	0.02	0.0013	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	0.004	0.02	0.02	0.0013	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	0.006	0.02	0.02	0.0018	0.31	0.02	0.26	6.44E-06	3.68E-06	2.30E-04	5.52E-03	1.04E-05	1.53E-06	3.37E-06	5.77E-03
MF-5	0.5	0.004	0.02	0.02	0.0013	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
Total	11.68	0.10	0.39	0.39	0.031	5.12	0.28	4.30	1.07E-04	6.14E-05	3.84E-03	9.21E-02	1.74E-04	2.56E-05	5.63E-05	9.63E-02

*PM emission factor is filterable PM only. PM10 emission factor is condensable and filterable PM10 combined. PM2.5 emission factor is filterable and condensable PM2.5 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

Abbreviations

DCB = Dichlorobenzene
 Pb = Lead
 Cd = Cadmium

**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: 001-30901-00064
Reviewer: Brian Williams

PTE Greenhouse Gas					
Emission Factor in lb/MMCF		CO2 120,000	CH4 2.3	N2O 2.2	
Unit ID	Heat Input Capacity (MMBtu/hr)	PTE of CO2 (tons/yr)	PTE of CH4 (tons/yr)	PTE of N2O (tons/yr)	PTE of CO2e (tons/yr)
Roof Top Units					
RTU-1	0.235	123.5	2.37E-03	2.26E-03	124.27
RTU-2	0.5	262.8	5.04E-03	4.82E-03	264.40
RTU-3	0.4	210.2	4.03E-03	3.85E-03	211.52
RTU-4	0.4	210.2	4.03E-03	3.85E-03	211.52
RTU-5	0.4	210.2	4.03E-03	3.85E-03	211.52
RTU-6	0.4	210.2	4.03E-03	3.85E-03	211.52
RTU-7	0.4	210.2	4.03E-03	3.85E-03	211.52
RTU-8	0.4	210.2	4.03E-03	3.85E-03	211.52
RTU-9	0.2	105.1	2.01E-03	1.93E-03	105.76
RTUDC-1	0.25	131.4	2.52E-03	2.41E-03	132.20
RTUDC-2	0.4	210.2	4.03E-03	3.85E-03	211.52
RTUDC-3	0.12	63.1	1.21E-03	1.16E-03	63.46
RTUDC-4	0.22	115.6	2.22E-03	2.12E-03	116.34
RTUDC-5	0.22	115.6	2.22E-03	2.12E-03	116.34
RTUDC-6	0.22	115.6	2.22E-03	2.12E-03	116.34
RTUDC-7	0.22	115.6	2.22E-03	2.12E-03	116.34
RTUDC-8	0.22	115.6	2.22E-03	2.12E-03	116.34
RTUDC-9	0.22	115.6	2.22E-03	2.12E-03	116.34
Gas Unit Heater					
UH-1	0.12	63.1	1.21E-03	1.16E-03	63.46
UH-2	0.075	39.4	7.56E-04	7.23E-04	39.66
UH-3	0.075	39.4	7.56E-04	7.23E-04	39.66
UH-4	0.075	39.4	7.56E-04	7.23E-04	39.66
UHDC-1	0.12	63.1	1.21E-03	1.16E-03	63.46
UHDC-2	0.12	63.1	1.21E-03	1.16E-03	63.46
UHDC-3	0.15	78.8	1.51E-03	1.45E-03	79.32
UHDC-4	0.2	105.1	2.01E-03	1.93E-03	105.76
UHDC-5	0.2	105.1	2.01E-03	1.93E-03	105.76
UHDC-6	0.2	105.1	2.01E-03	1.93E-03	105.76
UHDC-7	0.2	105.1	2.01E-03	1.93E-03	105.76
Make Up Air Unit					
AMU-1	0.4	210.2	4.03E-03	3.85E-03	211.52
Process Equipment					
EH-1	1.5	788.4	1.51E-02	1.45E-02	793.20
Gas Heat Exchanger					
HE-1	0.12	63.1	1.21E-03	1.16E-03	63.46
AI melting furnace					
MF-1	0.5	262.8	5.04E-03	4.82E-03	264.40
MF-2	0.5	262.8	5.04E-03	4.82E-03	264.40
MF-3	0.5	262.8	5.04E-03	4.82E-03	264.40
MF-4	0.7	367.9	7.05E-03	6.75E-03	370.16
MF-5	0.5	262.8	5.04E-03	4.82E-03	264.40
Total	11.68	6,139.01	0.12	0.11	6,176.37

Methodology

The N2O Emission Factor for uncontrolled is 2.2.

Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.

Greenhouse Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

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

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x

CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

**Appendix A: Emissions Calculations
Aluminum Melting
Jet Melters**

Company Name: FCC (Adams), LLC
Address City IN Zip: 936 East Parr Rd, Berne, Indiana, 46711
Permit Number: 001-32552-00064
Reviewer: Adam Wheat

Emission Factor lb/ton		PM*	PM10*	PM2.5*
		1.1	1.1	1.1
Unit ID	Maximum Aluminum Processed (lbs/hr)	PTE of PM (tons/yr)	PTE of PM10 (tons/yr)	PTE of PM2.5 (tons/yr)
MF-1	500	1.20	1.20	1.20
MF-2	500	1.20	1.20	1.20
MF-3	500	1.20	1.20	1.20
MF-4	441	1.06	1.06	1.06
MF-5	500	1.20	1.20	1.20
Total	2441.0	5.88	5.88	5.88

*Note: Emission factors are from STAPPA/ALAPCA Handbook, Section 11 (5/30/91) for aluminum melting furnaces using clean metal charge only. These alternative emission factors have previously been accepted by IDEM for similar permitted aluminum melting operations, including but not limited to General Aluminum Manufacturing Co. - Richmond Plant MSOP No. 177-20368-00050, issued on 06/19/2008. PM2.5 is assumed to be equal to PM10.

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: 001-32552-00064
Reviewer: Adam Wheat

Emission Factor in lb/ton Al processed				SOx*	NOx*	VOC*
				0.02	0.01	0.14
Unit ID	Maximum Cycles/hr	Casting Weight (lbs)	Maximum Aluminum Processed (tons/hr)	PTE of SOx (tons/yr)	PTE of NOx (tons/yr)	PTE of VOC (tons/yr)
DC-1	85	2.1125	0.090	0.01	0.00	0.06
DC-2	85	2.1125	0.090	0.01	0.00	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
DC-5	78	3.175	0.124	0.01	0.01	0.08
DC-6	85	2.1125	0.090	0.01	0.00	0.06
DC-7	78	3.175	0.124	0.01	0.01	0.08
Total			0.765	0.067	0.033	0.469

*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: 001-32552-00064
Reviewer: Adam Wheat

Weight of full dust collection container: 0.192 kg
 Weight of empty dust collection container: 0.026 kg
 Weight of dust collected during test: 0.166 kg
 Weight of dust collected during test: 0.366 lb
 Number of parts run during test: 1,232 parts

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					
Unit ID	Maximum Throughput Rate (parts/hr)	PTE of PM/PM10 (lbs/hr)	PTE of PM/PM10 (tons/yr)	Filter Control Efficiency	Controlled PTE of PM/PM10 (lbs/hr)	Controlled PTE of PM/PM10 (tons/yr)	Allowable PM Emissions (lbs/hr)
SB-1**	2172	0.68	2.98	95.0%	0.03	0.15	16.90
SB-2**	2172	0.68	2.98	95.0%	0.03	0.15	16.90
SB-3**	2172	0.68	2.98	95.0%	0.03	0.15	16.90
SB-4***	2172	0.68	2.98	95.0%	0.03	0.15	5.76
SB-5**	2172	0.68	2.98	95.0%	0.03	0.15	16.90
SB-6**	2172	0.68	2.98	95.0%	0.03	0.15	
Total	13032.0	4.08	17.87		0.20	0.89	

Methodology

*PM and PM10 emission factors are derived from the data collected by FCC (Adams). PM2.5 assumed to be equal to PM10.
 *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
 **Total Abrasives throughput per shot blast =14,072 lbs/hr
 **Maximum process throughput = (weight of shot blast + weight of parts) = (14072+2172*1.141)/2000 = 8.28 tons/hr
 ***Total Abrasives throughput =850 lbs/hr
 **Maximum process throughput = (weight of shot blast + weight of parts) = (850+2172*1.141)/2000 = 1.66 tons/hr
 Potential Emissions (lbs/hr) = Maximum Throughput Rate (parts/hr) x Emission Factor (lb/1,000 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)
 Allowable PM Emissions (lbs/hr) = 4.10 * Process Weight Rate (tons/hr)^0.67

**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: 001-32552-00064
Reviewer: Adam Wheat**

Emission Unit	Description	Chemical Used	Specific Gravity	Product Density [lb/gal]	VOC Content [lb/gal]	Typical Annual Chemical Usage [gal/yr]	Max. Hourly Chemical Usage [gal/hr]	Max. Daily Chemical Usage [gal/day]	Max. Annual Chemical Usage [gal/yr]	Potential VOC Emissions [lb/hr]	Potential VOC Emissions [tpy]
W-1	Press Washer	Kleen-Eze 305	1.06	8.84	0.00	1560	0.267	6.41	2340	0.000	0.000
W-2	Deburr Washer	Tech Clean 7610M	1.02	8.51	0.88	416	0.071	1.71	624	0.063	0.275
W-3	Hub Washer	J&B 1097	1.04	8.65	0.26	520	0.089	2.14	780	0.023	0.101
W-4	Assembly Washer	Tech Clean 7610M	1.02	8.51	0.88	1301	0.223	5.35	1951.5	0.196	0.859
W-5	RWG Washer	J&B 1097	1.04	8.65	0.26	104	0.018	0.43	156	0.005	0.020
W-6	Flow Forming Washer	Tech Clean 7610M	1.02	8.51	0.88	208	0.036	0.85	312	0.031	0.137
W-7	Assembly Washer	Tech Clean 7610M	1.02	8.51	0.88	361	0.062	1.48	541.5	0.054	0.238
W-8	Die Cleaning Washer	SK Premium	0.82	6.84	6.84	45	0.008	0.18	67.5	0.053	0.231
W-9	Stoeling Washer	J&B 1097	1.04	8.65	0.26	208	0.036	0.01	312	0.009	0.041
W-10	Stoeling AV4 Line Washer	Tech Clean 7610M	1.02	8.51	0.88	208	0.036	1.01	312	0.031	0.137
W-11	6R80 Assembly Line Washer	Tech Clean 7610M	1.02	8.51	0.88	360	0.062	2.01	540	0.054	0.238
WDC-1	Die Cast Washer 1	Water									
WDC-2	Die Cast Washer 2	Water									
WDC-3	Die Cast Washer 3	Water									
WDC-4	Die Cast Washer 4	Water									

Total: 2.28

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
Lathe Operations and Oil Hole Machines**

**Company Name: FCC (Adams), LLC
Address City IN Zip: 936 East Parr Rd, Berne, Indiana, 46711
Permit Number: 001-32552-00064
Reviewer: Adam Wheat**

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-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-5	RWG Lathe 1	Seal Cool 3990	9.18	1.00E-04	78.50	100%	0.55	0.004	0.02
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
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
L-16	OP10/20 West Hub Line Lathe	Seal Cool 3990	9.18	1.72E-03	40.00	100%	0.55	0.038	0.17
L-17	OP10/20 East Hub Line Lathe	Seal Cool 3990	9.18	1.72E-03	40.00	100%	0.55	0.038	0.17
L-18	OP30/40 West Hub Line Lathe	Seal Cool 3990	9.18	1.72E-03	40.00	100%	0.55	0.038	0.17
L-19	OP30/40 East Hub Line Lathe	Seal Cool 3990	9.18	1.72E-03	40.00	100%	0.55	0.038	0.17
L-20	OP50 Hub Line Lathe	Seal Cool 3990	9.18	1.72E-03	80.00	100%	0.55	0.076	0.33
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
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
LDC-18	A Piston OP-10 NC 6R140 Lathe	Yumate EC-980	7.59	1.72E-03	60.00	100%	3.24	0.335	1.47
LDC-19	B Piston OP-10 NC 6R140 Lathe	Yumate EC-980	7.59	1.15E-03	60.00	100%	3.24	0.224	0.98
LDC-20	New Product Line D/C Piston Lathe 1	Yumate EC-980	7.59	1.72E-03	115.00	100%	3.24	0.641	2.81
LDC-21	New Product Line D/C Piston Lathe 2	Yumate EC-980	7.59	1.72E-03	57.00	100%	3.24	0.318	1.39
LDC-22	New Product Line D/C Piston Lathe 3	Yumate EC-980	7.59	1.72E-03	57.00	100%	3.24	0.318	1.39
LDC-23	New Product Line D/C Piston Lathe 4	Yumate EC-980	7.59	1.72E-03	57.00	100%	3.24	0.318	1.39
LDC-24	New Product Line D/C Piston Lathe 5	Yumate EC-980	7.59	1.72E-03	57.00	100%	3.24	0.318	1.39
LDC-25	New Product Line D/C Piston Lathe 6	Yumate EC-980	7.59	1.72E-03	57.00	100%	3.24	0.318	1.39
LDC-26	New Product Line D/C Piston Lathe 7	Yumate EC-980	7.59	1.72E-03	57.00	100%	3.24	0.318	1.39
									29.09

Methodology

VOC Content (lbs/gal) = VOC wt. % x Product Density
 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

Three (3) Oil Hole Machines

Machine ID	Machine Name	Cutting 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)
OH-1	Oil Hole Machine (Drill) #1 on Hub Line	Seal Cool 3990	9.18	1.72E-03	350.00	100%	0.55	0.331	1.45
OH-2	Oil Hole Machine (Drill) #2 on Hub Line	Seal Cool 3990	9.18	1.72E-03	350.00	100%	0.55	0.331	1.45
OH-3	Oil Hole Machine (Drill) #3 on Hub Line	Seal Cool 3990	9.18	1.72E-03	350.00	100%	0.55	0.331	1.45

Potential VOC emissions(lb/hr) = coating usage x maximum production rate x flash-off x VOC content

Total Oil Hole Machines

4.36

Potential emissions per year = potential emissions per hour x 8760/2000



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: Sandra Affolder
FCC (Adams), LLC
936 E Parr Road
Berne, IN 46711

DATE: December 13, 2012

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

SUBJECT: Final Decision
Administrative Amendment
001-32552-00064

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
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 12/13/2012 FCC (Adams), LLC 001-32552-00064 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		Sandra Affolder 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 312 E Diamond St. Kendallville IN 46755 (Consultant)										
6		Berne City Council and Mayors Office 158 W. Franklin St. Berne IN 46711 (Local Official)										
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