



DEPARTMENT OF NATURAL RESOURCES

MISSOURI AIR CONSERVATION COMMISSION

PERMIT TO CONSTRUCT

Under the authority of RSMo 643 and the Federal Clean Air Act the applicant is authorized to construct the air contaminant source(s) described below, in accordance with the laws, rules and conditions as set forth herein.

Permit Number: **032012-006** Project Number: 2011-03-044
Installation Number: 113-0029

Parent Company: Bodine Aluminum, Inc.

Parent Company Address: 25 Atlantic Avenue, Erlanger, KY 41018

Installation Name: Bodine Aluminum, Inc.

Installation Address: 100 Cherry Blossom Way, Troy, MO 63379

Location Information: Lincoln County, S36,T36, R7W

Application for Authority to Construct was made for:
Modification of existing operation of machine coolant capacity (M1) to 5000 gallons a year, reduce sand production (P5) to 58,500 tons a year, install DC-10 furnace a forced air media for HPDC castings. Also, the startup of four idle High Pressure Die Cast (HPDC) machines and replacement of the existing thermal oxidizer attached to the sand reclamation system with a regenerative thermal oxidizer. This review was conducted in accordance with Section (5), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*.

Standard Conditions (on reverse) are applicable to this permit.

Standard Conditions (on reverse) and Special Conditions are applicable to this permit.

MAR 16 2012

EFFECTIVE DATE

Kyra L Moore
DIRECTOR OR DESIGNEE
DEPARTMENT OF NATURAL RESOURCES

STANDARD CONDITIONS:

Permission to construct may be revoked if you fail to begin construction or modification within two years from the effective date of this permit. Permittee should notify the Air Pollution Control Program if construction or modification is not started within two years after the effective date of this permit, or if construction or modification is suspended for one year or more.

You will be in violation of 10 CSR 10-6.060 if you fail to adhere to the specifications and conditions listed in your application, this permit and the project review. In the event that there is a discrepancy between the permit application and this permit, the conditions of this permit shall take precedence. Specifically, all air contaminant control devices shall be operated and maintained as specified in the application, associated plans and specifications.

You must notify the Departments' Air Pollution Control Program of the anticipated date of start up of these air contaminant sources. The information must be made available within 30 days of actual startup. Also, you must notify the Department of Natural Resources Regional office responsible for the area within which you are located within 15 days after the actual start up of these air contaminant sources.

A copy of this permit and permit review shall be kept at the installation address and shall be made available to Department of Natural Resources' personnel upon request.

You may appeal this permit or any of the listed special conditions to the Administrative Hearing Commission (AHC), P.O. Box 1557, Jefferson City, MO 65102, as provided in RSMo 643.075.6 and 621.250.3. If you choose to appeal, you must file a petition with the AHC within 30 days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed. If it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the AHC.

If you choose not to appeal, this certificate, the project review and your application and associated correspondence constitutes your permit to construct. The permit allows you to construct and operate your air contaminant sources(s), but in no way relieves you of your obligation to comply with all applicable provisions of the Missouri Air Conservation Law, regulations of the Missouri Department of Natural Resources and other applicable federal, state and local laws and ordinances.

The Air Pollution Control Program invites your questions regarding this air pollution permit. Please contact the Construction Permit Unit at (573) 751-4817. If you prefer to write, please address your correspondence to the Missouri Department of Natural Resources, Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102-0176, attention: Construction Permit Unit.

Page No.	3
Permit No.	
Project No.	2011-03-044

SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

The special conditions listed in this permit were included based on the authority granted the Missouri Air Pollution Control Program by the Missouri Air Conservation Law (specifically 643.075) and by the Missouri Rules listed in Title 10, Division 10 of the Code of State Regulations (specifically 10 CSR 10-6.060). For specific details regarding conditions, see 10 CSR 10-6.060 paragraph (12)(A)10. "Conditions required by permitting authority."

Bodine Aluminum, Inc.
Lincoln County, S36,T36, R7W

1. Superseding Condition

The conditions of this permit supersede Special Condition 2, found in the previously issued construction permit 112008-006 issued by the Air Pollution Control Program.

2. Emission Limitation

- A. Bodine Aluminum, Inc. shall emit less than 250.0 tons of Volatile Organic Compounds (VOCs) from the entire installation in any consecutive 12-month period. This limitation includes all existing emission sources on site as of issuance date of this permit.
- B. Bodine Aluminum, Inc. shall emit less than 250.0 tons of Particulate Matter less than 10 microns in aerodynamic diameter (PM₁₀) from the entire installation in any consecutive 12-month period. This limitation includes all existing emission sources on site as of issuance date of this permit.
- C. Bodine Aluminum, Inc. shall emit less than 250.0 tons of Nitrogen Oxide (NO_x) from the entire installation in any consecutive 12-month period. This limitation includes all existing emission sources on site as of issuance date of this permit.
- D. Attachment A, B and C or equivalent forms approved by the Air Pollution Control Program that are adequate to determine the total emissions of PM₁₀, NO_x and VOC shall be used to demonstrate compliance with Special Conditions 2.A., 2.B., and 2.C. Bodine Aluminum, Inc. shall maintain all records required by this permit for not less than five (5) years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request.
- E. Bodine Aluminum, Inc. shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after the end of the month during which the records from Special Condition Number 2.D. indicate that the source exceeds the limitation of Special Condition Number 2.A., 2.B., and 2.C.

Page No.	4
Permit No.	
Project No.	2011-03-044

SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

Table 1: Emission Points Applicable to Special Condition 2.

Emission Point	Description	Stack ID's
O2	Cylinder Head Casting	ST-25, ST-24, ST-20, ST-19,ST-3
O3	Out of Service	ST-25, ST-24, ST-20, ST-19,ST-3
O5	Cylinder Head Core Molding	ST-25, ST-20
O6	Out of Service	ST-24
OA1	Out of Service	ST-24
OA2	Out of Service	ST-3
P16	Coated Sand Storage	ST-6A
OA7	Cylinder Head Heat Treating	HF-5, HF-8 to HF-35
OA10	Heat Treatment Transmission Case	ST-5
M1	Machining	See G-1
G1	General Plant Exhaust	EF-1 to EF-11, EF-14, EF-29 to 34, EF36, EF-37, EF-40, EF-42, EF44A, EF-45, EF-47, EF-49, EF-50, EF-52, EF-48
C1	Plant Natural Gas	G-1
GA4	Out of Service	HF1, HF-2
P15S	Coated Sand Sieving	ST-6A
P30	High Pressure Die Casting	ST-101, ST-102, ST-103, ST-104, ST-105, ST-106, ST-107, ST-108
P1	Used Sand Crushing	ST-6B
P2	Used Sand Sieving	ST-6B
P3	AL/Sand Separation	ST-6B
P4	Final Sand Crushing	ST-6B
P5	Sand Reclaim Furnace #1	(ST-7)* ST-8R
P5	Sand Reclaim Furnace #2	(ST-23)* ST-8R
P6	Sand Separation	ST-6B
P7	Sand Storage	ST-6B
P8	Sand Weighing	ST-6A
P9	Sand Heating	ST-6A
P10	Heated Sand Storage	ST-6A
P11	Resin Coating	ST-8R
P12	Resin Charging	ST-6A
P13	Out of Service	ST-6A
P14	Sand Cooling/Coated Sand Crushing	ST-6A
P15M	Aluminum Melting	ST-4, ST-9, ST-11, ST-12

*Start up only.

Page No.	5
Permit No.	
Project No.	2011-03-044

SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

3. Specifications, Operating Limits and Emission Limits for Sand Operations
 - A. Sand Operations for the purposes of this permit include all units being vented to the regenerative thermal oxidizer (RTO). These emission units include the following: two sand furnaces dust collectors (DC-2, DC-16).
 - 1) The stacks on DC-2 and DC-16 will remain to allow for natural gas venting for furnace start-up (per local code requirements) as specified in the application.
 - 2) The start up and shut down will be controlled via an automatic dampening system.
 - 3) The automatic damping system will be inspected at intervals sufficient to warrant good maintenance and no by-pass of emissions other than code required startup combustion emissions of natural gas.
 - B. The following requirements apply to the Sand Operations as described in Special Condition 3.A.
 - 1) The RTO shall achieve a minimum of 95% destruction of VOCs from the Sand Operation.
 - 2) The RTO shall achieve a minimum of 95% destruction of PM₁₀ from the Sand Operation.
 - 3) The RTO shall achieve a minimum of 90% destruction of Hazardous Air Pollutants (HAPs) from the Sand Operation.
 - 4) Bodine Aluminum, Inc. shall maintain an operating, maintenance and inspection log for the RTO which shall include the following:
 - a) Incidents of malfunction(s), with impact on emissions, date(s) and duration of the event, probable cause, and corrective actions;
 - b) Maintenance activities, with inspection schedule, repair actions, and replacements, etc; and
 - c) A written record of regular inspection schedule, the date and results of all inspections including any actions or maintenance activities that result from that inspection.
 - 5) The operating temperature of the RTO shall be continuously monitored and recorded during operation. The operating temperature of the RTO shall equal or exceed the temperature, as determined during the compliance test specified in Special Condition 7, which is needed to meet the required destruction efficiency. The most recent sixty (60) months of records shall be maintained on-site and shall be made immediately available to Missouri Department of Natural Resources' personnel upon request. The acceptable temperature range may be re-established by performing a new set of emission tests.

Page No.	6
Permit No.	
Project No.	2011-03-044

SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

4. Control Device Requirement-Baghouse

- A. Bodine Aluminum, Inc. shall control emissions from the sand processes using baghouses as specified in the permit application.
 - 1) DC-2, baghouse for sand furnace #1
 - 2) DC-3, baghouse for RTO.
 - 3) DC-10, dust collector for Heat Treatment OA10
 - 4) DC-16, baghouse for sand furnace #2

- B. The baghouses shall be operated and maintained in accordance with the manufacturer's specifications. The baghouse shall be equipped with a gauge or meter, which indicates the pressure drop across the control device. These gauges or meters shall be located such that the Department of Natural Resources' employees may easily observe them.

- C. Replacement filters for the baghouses shall be kept on hand at all times. The bags shall be made of fibers appropriate for operating conditions expected to occur (i.e. temperature limits, acidic and alkali resistance, and abrasion resistance).

- D. Bodine Aluminum, Inc. shall monitor and record the operating pressure drop across the baghouses at least once every 24 hours. The operating pressure drop shall be maintained within the design conditions specified by the manufacturer's performance warranty.

- E. Bodine Aluminum, Inc. shall maintain an operating and maintenance log for the baghouses which shall include the following:
 - 1) Incidents of malfunction, with impact on emissions, duration of event, probable cause, and corrective actions; and
 - 2) Maintenance activities, with inspection schedule, repair actions, and replacements, etc.

Page No.	7
Permit No.	
Project No.	2011-03-044

SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

Table 2: Baghouses applicable to Special Condition 4.

Device Number and Code	Type
DC-2*, 017	Baghouse
DC-3, 016	Baghouse
DC-10, 017	Baghouse
DC-16*, 017	Baghouse

*DC-2 and DC-16 are now connected to the RTO as is DC-3.

5. Restriction of Odors
 - A. If a continued situation of demonstrated nuisance odors exists in violation of 10 CSR 10-3.090, the Director may require through written notice Bodine Aluminum Inc. to submit a corrective action plan within ten (10) days adequate to timely and significantly mitigate the odors. Bodine Aluminum Inc. shall implement any such plan immediately upon its approval by the Director. Failure to either submit or implement such a plan shall be in violation of this permit.

6. Record Keeping and Reporting Requirements
 - A. Bodine Aluminum, Inc. shall maintain all records required by this permit for not less than five years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request. These records shall include Material Safety Data Sheets (MSDS) for all materials used

 - B. Bodine Aluminum, Inc. shall report to the Air Pollution Control Program's Compliance/Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after the end of the month during which any record required by this permit show an exceedance of a limitation imposed by this permit.

7. Performance Testing
 - A. Bodine Aluminum, Inc. shall test for the destruction efficiency of VOC, PM₁₀ and HAPs from the RTO. The temperature that achieves these results will become the set point temperature for the RTO. The destruction efficiency determined from the testing will become the destruction efficiency used in the recordkeeping. The PM₁₀, VOC and HAP emission factors developed from this testing shall be used in the recordkeeping of the RTO.

Page No.	8
Permit No.	
Project No.	2011-03-044

SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

- B. A completed Proposed Test Plan form (enclosed) must be submitted to the Air Pollution Control Program thirty days prior to the proposed test date so that the Air Pollution Control Program may arrange a pre test meeting, if necessary, and ensure that the test date is acceptable for an observer to be present. The proposed test plan may serve the purpose of notification and must be approved by the Director of the Missouri Air Pollution Control Program prior to conducting the required emission testing.
- C. These tests shall be performed within 60 days after achieving the maximum production rate of the installation, but not later than 180 days after initial start-up for commercial operation and shall be conducted in accordance with the Stack Test Procedures outlined in Special Condition 3.B.
- D. A completed Proposed Test Plan Form (enclosed) must be submitted to the Air Pollution Control Program 30 days prior to the proposed test date so that the Air Pollution Control Program may arrange a pretest meeting, if necessary, and assure that the test date is acceptable for an observer to be present. The Proposed Test Plan may serve the purpose of notification and must be approved by the Director prior to conducting the required emission testing.
- E. Two copies of a written report of the performance test results shall be submitted to the Director within 30 days of completion of any required testing. The report must include legible copies of the raw data sheets, analytical instrument laboratory data, and complete sample calculations from the required U.S. EPA Method for at least one sample run.
- F. The test report is to fully account for all operational and emission parameters addressed both in the permit conditions as well as in any other applicable state or federal rules or regulations.
- G. If the compliance testing required by Special condition 3.B of this permit indicates that any control efficiency or emission limit specified in Special Condition 3.B. is not met, Bodine Aluminum, Inc. must propose a plan to the Air Pollution Control Program within thirty days of submitting the compliance test results. This plan must demonstrate how Bodine Aluminum, Inc. will reduce emission rates in order to show compliance. The plan shall become effective upon its approval by the Director.

REVIEW OF APPLICATION FOR AUTHORITY TO CONSTRUCT AND OPERATE
SECTION (5) REVIEW

Project Number: 2011-03-044
Installation ID Number: 113-0029
Permit Number:

Bodine Aluminum, Inc.
100 Cherry Blossom Way
Troy, MO 63379

Complete: March 17, 2011

Parent Company:
Bodine Aluminum, Inc.
25 Atlantic Avenue
Erlanger, KY 41018

Lincoln County, S36,T36, R7W

REVIEW SUMMARY

- Bodine Aluminum, Inc. has applied for authority modify the existing operation and change machine coolant capacity (M1) to 5000 gallons a year, reduce sand production (P5) to 58,500 tons a year, install DC-10 furnace, a forced air media for HPDC castings. Also, the startup of four idle High Pressure Die Cast (HPDC) machines and replacement of the existing thermal oxidizer with a regenerative thermal oxidizer which will be attached to the sand reclamation system (P5).
- Hazardous Air Pollutant (HAP) emissions are expected from the proposed equipment. HAPs of concern from this process are acetaldehyde (CAS # 75-07-0), benzene (CAS# 71-43-2), formaldehyde (CAS# 50-0-0), phenol (CAS# 108-95-2), cresol (CAS# 1319-77-3 including Ortho, Meta and Para Xylenes), toluene (CAS # 108-88-3), and Xylene (CAS# 1330-20-7 including Ortho, Meta and Para).
- None of the New Source Performance Standards (NSPS) apply to the installation.
- None of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) apply to this installation. None of the currently promulgated Maximum Achievable Control Technology (MACT) regulations apply to the proposed equipment. However, Title 40 Part 63 Subpart ZZZZZZ, National Emission Standards for Hazardous Air Pollutants Area Source Standards for Aluminum, Copper, and Other Nonferrous Foundries may become applicable in the future when melting in excess of 600 tons annually occurs.
- A Regenerative Thermal Oxidizer (RTO), and Baghouses are being used to control the PM₁₀, PM_{2.5}, VOC, and HAPs emissions from the equipment in this permit.
- This review was conducted in accordance with Section (5) of Missouri State Rule 10 CSR 10-6.060, Construction Permits Required. Potential emissions of all pollutants are below de minimis levels.
- This installation is located in Lincoln County, an attainment area for all criteria pollutants.

- This installation is not on the List of Named Installations found in 10 CSR 10-6.020(3)(B), Table 2. The installation's major source level is 250 tons per year and fugitive emissions are not counted toward major source applicability.
- Ambient air quality modeling was not performed since potential emissions of the application are below de minimis levels.
- Emissions testing are required for the RTO.
- A revision to the Part 70 Operating Permit application is required for this installation within 1 year of equipment startup.
- Approval of this permit is recommended with special conditions.

INSTALLATION DESCRIPTION

Bodine Aluminum Inc. is an aluminum die casting installation located in Lincoln County. They are a wholly owned division of Toyota Motor Manufacturing of North America. They have operated an aluminum casting facility in Troy, Missouri since 1992. Bodine Aluminum Inc. produces engine components to support Toyota's North American vehicle manufacturing operations. In order to reach its present production capacity, they have had two plant expansions since the original construction in 1992. Processes at the installation include, aluminum melting, aluminum casting, heat treating, core molding and sand reclamation. Bodine Aluminum was issued a Part 70 Operation Permit renewal (Permit Number: OP2010-121) that expires on November 18, 2015. The following construction permits have been issued to Bodine Aluminum, Inc. from the Air Pollution Control Program.

Table 3: Permits issued to Bodine Aluminum, Inc. (113-0029)

Permit	Project Description
0591-003	Original permit for the existing plant
0593-008	Installation of natural gas oven to dry recycled aluminum prior to melting
1193-006	Addition of six (6) machining centers and a washing station to produce engine brackets
0194-014	Addition of a shot blaster to rework surface areas
0995-005	Increase production by 1,825 tons of poured aluminum
0196-019	Addition of new building and increase production
0996-011	Addition of a natural gas fired die heating oven, burner capacity 2 MMBtu/hr
OP	Part 70 Operating permit 11/9/1996
1299-009	Addition of casting machines
1299-009A	Amendment to Permit Number 1299-009.
OP	Part 70 Operating permit 01/03/2005
112004-005	Replace Casting and Machine equipment
032006-004	New Casting Line
112008-006	Modify product mix
OP2010-121	Part 70 Renewal 11/19/2010

PROJECT DESCRIPTION

In order to remain competitive, Bodine Aluminum Inc. will be revising its production facility to support Toyota's automobile manufacturing operations in North America. The following changes represent the revision to Bodine Aluminum Inc. existing permit, with project number 2005-12-045. This project involves adding additional control devices, reactivating equipment and both modifying existing emission units and constructing new emission units. Only the increases of the existing and new units are counted in the Potential To Emit (PTE). The new units PTE is based on the continuous operation at 8760 hours per year and the modified existing units the actual to potential method is used which is PTE minus baseline. A ten year look back at submitted inventory data determined the baseline emissions (actual emissions) on the existing equipment.

This project will suspend the projected 2013 shut down of seven existing High Pressure Die Casting (HPDC) machines of which four are presently idle to support production increases in North America. This equipment was never removed from the installations Emission Inventory Questionnaire and Operating Permit and shut down has not been relied upon in any permitting action.

The existing High Pressure Die Casting (HPDC) machines now require an increase in machining coolant capacity from 4000 gallons of coolant per year to 5000 gallons per year. This project also includes reinstalling DC-10 Heat Treatment Furnace, which uses forced air as a quench media for HPDC castings. However, this equipment does not qualify for the provision to restart without a construction permit as it has been out of the EIQ and therefore is included in the projects Potential To Emit calculations as new equipment. Replacement of the existing thermal oxidizer attached to the sand reclamation system with an RTO and connect the current sand dust collectors to the two (P5) sand furnaces with their dust collectors. The previous permit limited sand production to 68,506 tons of coated sand per year. This will be lowered to 58,500 tons of sand.

The current thermal oxidizer is connected to DC-3 dust collector. The new RTO will be connected to it as well. Attached to this unit will also be the two sand furnaces dust collectors DC-2 and DC-16. It is anticipated that the furnace temperature can be lowered to improve sand quality and lengthen the equipment life. The current stack on DC-2 and 16 will remain connected to allow for natural gas venting for furnace startup as required per code and will be controlled by an automatic dampening system.

EMISSIONS/CONTROLS EVALUATION

The emission factors are based on factors used in the recent EIQ which are based on recent stack tests. The emission factors and control efficiencies used in this analysis were based on test data already approved by the Air Pollution Control Program. Potential emissions of the application represent the Potential To Emit of the new equipment (the OA10 Heat Treating –Air Quenching), assuming continuous operation (8760 hours per year.) Modification to the process were based on potential minus actual emissions. Actual emissions were based on the baseline average of 2005 and 2004 emission years as reported in the emissions inventory. This included the sand

furnaces (P5), resin coating (P11) machining coolant usage (M1). This project is modifying and constructing new emission units. Hybrid methods were employed in calculating project PTE. Only the increases of the existing and new emission units were summed. The following table provides an emissions summary for this project.

Table 2: Emissions Summary (tons per year)

Pollutant	Regulatory <i>De Minimis</i> Levels	Existing Potential Emissions	Existing Actual Emissions (2010 EIQ)	Potential Emissions of the Application	New Installation Conditioned Potential
PM _{2.5}	10.0	<250.0	N/D	13.53	<250.0
PM ₁₀	15.0	<250.0	22.84	13.53	N/A
SO _x	40.0	<250.0	0.05	N/A	<250.0
NO _x	40.0	<250.0	36.56	32.52	<250.0
VOC	40.0	<250.0	74.27	21.12	N/A
CO	100.0	N/D	4.60	N/A	N/A
HAPs	10.0/25.0	N/D	1.49	3.37	N/A

N/A = Not Applicable; N/D = Not Determined

PERMIT RULE APPLICABILITY

This review was conducted in accordance with Section (5) of Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*. Potential emissions of all pollutants are below de minimis levels.

APPLICABLE REQUIREMENTS

Bodine Aluminum, Inc. shall comply with the following applicable requirements. The Missouri Air Conservation Laws and Regulations should be consulted for specific record keeping, monitoring, and reporting requirements. Compliance with these emission standards, based on information submitted in the application, has been verified at the time this application was approved.

GENERAL REQUIREMENTS

- *Submission of Emission Data, Emission Fees and Process Information*, 10 CSR 10-6.110
The emission fee is the amount established by the Missouri Air Conservation Commission annually under Missouri Air Law 643.079(1).
- *Operating Permits*, 10 CSR 10-6.065
- *Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin*, 10 CSR 10-6.170
- *Restriction of Emission of Visible Air Contaminants*, 10 CSR 10-6.220
- *Restriction of Emission of Odors*, 10 CSR 10-6.165

SPECIFIC REQUIREMENTS

- Restrictions of Emissions of Particulate Matter From Industrial Processes, 10 CSR 10-6.400

STAFF RECOMMENDATION

On the basis of this review conducted in accordance with Section (5), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*, I recommend this permit be granted with special conditions.

Timothy Paul Hines
Environmental Engineer

Date

PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, dated March 11, 2011, received March 15, 2011, designating Bodine Aluminum, Inc. as the owner and operator of the installation.
- U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*, Fifth Edition.
- St. Louis Regional Office Site Survey, dated June 11, 2011.

Mr. Bill Kronmueller
Assistant Manager of Environmental Affairs
Bodine Aluminum, Inc.
100 Cherry Blossom Way
Troy, MO 63379

RE: New Source Review Permit - Project Number: 2011-03-044

Dear Mr. Kronmueller:

Enclosed with this letter is your permit to construct. Please study it carefully. Also, note the special conditions, if any, on the accompanying pages. The document entitled, "Review of Application for Authority to Construct," is part of the permit and should be kept with this permit in your files. Operation in accordance with these conditions, your new source review permit application and with your amended operating permit is necessary for continued compliance. The reverse side of your permit certificate has important information concerning standard permit conditions and your rights and obligations under the laws and regulations of the State of Missouri.

If you have any questions regarding this permit, please do not hesitate to contact Timothy Paul Hines, at the Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102 or at (573) 751-4817. Thank you for your attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Susan Heckenkamp
New Source Review Unit Chief

KBH:thl

Enclosures

c: St. Louis Regional Office
PAMS File: 2011-03-044

Permit Number: