



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: November 28, 2012

RE: Auburn Gear, Inc./033-32446-00015

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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Mr. Grant Merriman
Auburn Gear, Inc.
400 East Auburn Drive
Auburn, Indiana 46706-3499

November 28, 2012

Re: 033-32446-00015
First Administrative Amendment to
MSOP Renewal No.: M033-22679-00015

Dear Mr. Merriman:

Auburn Gear, Inc. was issued a Minor Source Operating Permit (MSOP) Renewal on May 2, 2007, for a differential, shaft and gear manufacturing operation. A letter requesting changes to this permit was received on October 24, 2012.

The source requested that the permit be updated to install two (2) natural gas fired heat treat furnaces and to make certain corrections to the list of permitted equipment.

1. Installation of two (2) natural gas fired heat treat furnaces (Units K-24 HT and K-24 DF)

The descriptions of the new units are as follows:

- (a) One (1) natural gas fired heat treat furnace, identified as K-24 HT, approved in 2012 for construction, with a maximum capacity of 3.175 MMBtu/hr, and exhausting through two (2) stacks, identified as K 24 HT A and K 24 HT B.
- (b) One (1) natural gas fired heat treat furnace, identified as K-24 DF, approved in 2012 for construction, with a maximum capacity of 0.5 MMBtu/hr, and exhausting through one (1) stack, identified as K 24 DF A.

Pursuant to 326 IAC 2-6.1-6(d)(11), this change to the permit is considered an administrative amendment because the permit is amended to add an emissions unit, subject to 326 IAC 2-1.1-3 (Exemptions), at the request of the applicant.

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 2-6.1 (MSOP). See Appendix A for the revised PTE of the source after the addition of the emission units.

2. Revision to description of natural gas fired heat treat furnace (K-41)

This emission unit was incorrectly identified as Rx atmosphere gas generator K-41 with a heat input capacity of 0.455 MMBtu/hr. The correct description is as follows:

One (1) natural gas fired heat treat furnace, identified as K-41, constructed in 1960, with a maximum capacity of 0.38 MMBtu/hr, and exhausting through one (1) stack, identified as S 20.

Pursuant to 326 IAC 2-6.1(d)(2)(A), this change to the permit is considered an administrative amendment because the permit is amended to change the descriptive information concerning the source of emissions unit, where the revision will not trigger a new application requirement.

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 2-6.1 (MSOP). See Appendix A for the revised PTE of the source after the addition of this emission unit.

3. Revision to description of shot blaster (SB-836)

The description of the shotblaster identified as SB-836 has been updated to state that this emission unit now exhausts inside the building.

Pursuant to 326 IAC 2-6.1(d)(2)(A), this change to the permit is considered an administrative amendment because the permit is amended to change the descriptive information concerning the source of emissions unit, where the revision will not trigger a new application requirement.

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 2-6.1 (MSOP). See Appendix A for the revised PTE of the source after the addition of this emission unit.

4. Deletion of heated water spray washer (SB-Y209)

Pursuant to 326 IAC 2-6.1(d)(2)(A), this change to the permit is considered an administrative amendment because the permit is amended to change the descriptive information concerning the source of emissions unit, where the revision will not trigger a new application requirement.

5. Deletion of carburization & draw furnace (SB-K39)

Pursuant to 326 IAC 2-6.1(d)(2)(A), this change to the permit is considered an administrative amendment because the permit is amended to change the descriptive information concerning the source of emissions unit, where the revision will not trigger a new application requirement.

6. Deletion of carburization & draw furnace (K-304)

Pursuant to 326 IAC 2-6.1(d)(2)(A), this change to the permit is considered an administrative amendment because the permit is amended to change the descriptive information concerning the source of emissions unit, where the revision will not trigger a new application requirement.

7. Computation of Greenhouse Gas Emissions Potential

Pursuant to 326 IAC 2-7-1(39), starting July 1, 2011, greenhouse gases (GHGs) emissions are subject to regulation at a source with a potential to emit (PTE) 100,000 tons per year or more of CO₂ equivalent emissions (CO₂e). Therefore, CO₂e emissions have been calculated for this source. Based on the calculations, the unlimited PTE GHGs from the entire source is less than 100,000 tons of CO₂e per year (see Appendix A for the calculations). This did not require any changes to the permit.

8. Evaluation of NESHAP JJJJJ

The three (3) boilers at Auburn Gear, Inc. meet the definition of an industrial boiler under 40 CFR 63.11237 of the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources [40 CFR 63, Subpart JJJJJ]. Pursuant to 40 CFR 63.11195(e), these boilers are not subject to this rule because they are gas-fired.

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 ~~strikethrough~~ values.

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of MSOP Administrative Amendment (tons/year)									
	CO	NO _x	PM*	PM ₁₀ *	PM _{2.5} *	SO ₂	VOC	GHGs as CO ₂ e**	Total HAPs	HAP Hexane
Plant boiler # 1	1.89	2.25	0.04	0.17	0.17	0.01	0.12	15,368	0.043	0.041
Plant boiler # 2	1.89	2.25	0.04	0.17	0.17	0.01	0.12		0.043	0.041
Boiler BO 3	0.42	0.51	0.01	0.04	0.04	0.00	0.03		0.010	0.009
K-30	0.17	0.20	0.00	0.02	0.02	0.00	0.01		0.004	0.004
K-41	0.17	0.20	0.00	0.02	0.02	0.00	0.01		0.004	0.004
K-41 HT	0.14	0.17	0.00	0.01	0.01	0.00	0.01		0.003	0.003
K-304	0.17	0.20	0.00	0.02	0.02	0.00	0.01		0.004	0.004
SB-Y209	0.03	0.03	0.00	0.00	0.00	0.00	0.00		0.004	0.004
SB-300	0.06	0.07	0.00	0.01	0.01	0.00	0.00		0.001	0.001
K-22	4.25	5.05	0.10	0.38	0.38	0.03	0.28		0.095	0.091
SB-K39	0.86	4.03	0.02	0.08	0.08	0.04	0.06		0.019	0.019
K-304	0.56	0.66	0.04	0.05	0.05	0.00	0.04		0.013	0.012
831	0.09	0.11	0.00	0.01	0.01	0.00	0.01		0.002	0.002
SB 534	0.08	0.10	0.00	0.01	0.01	0.00	0.01		0.002	0.002
K-24 HT	1.18	1.40	0.03	0.11	0.11	0.01	0.08		0.026	0.025
K-24 DF	0.18	0.22	0.00	0.02	0.02	0.00	0.01		0.004	0.004
Panghorn Rotoblast SB- 159	--	--	12.59	12.59	12.59	--	--	--	--	--
Wheelabrator Type K Multi Tabblast SB- 185	--	--	12.55	12.55	12.55	--	--	--	--	--
Panghorn Rotoblast SB- 821	--	--	12.59	12.59	12.59	--	--	--	--	--
Wheelabrator Tumblast SB- 836	--	--	12.51	12.51	12.51	--	--	--	--	--
No. 2 Wheelabrator Tabblast SB- 859	--	--	12.59	12.59	12.59	--	--	--	--	--
Total PTE of Entire Source	10.69	12.73	63.08	63.81	63.81	0.08	0.70	15,368	0.24	0.23
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 CO₂e 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)									
	CO	NO _x	PM*	PM ₁₀ *	PM _{2.5} *	SO ₂	VOC	GHGs as CO ₂ e**	Total HAPs	HAP Hexane
Plant boiler # 1	1.89	2.25	0.04	0.17	0.17	0.01	0.12	15,368	0.043	0.041
Plant boiler # 2	1.89	2.25	0.04	0.17	0.17	0.01	0.12		0.043	0.041
Boiler BO 3	0.42	0.51	0.01	0.04	0.04	0.00	0.03		0.010	0.009
K-30	0.17	0.20	0.00	0.02	0.02	0.00	0.01		0.004	0.004
K-41 HT	0.14	0.17	0.00	0.01	0.01	0.00	0.01		0.003	0.003
K-304	0.17	0.20	0.00	0.02	0.02	0.00	0.01		0.004	0.004
SB-300	0.06	0.07	0.00	0.01	0.01	0.00	0.00		0.001	0.001
K-22	4.25	5.05	0.10	0.38	0.38	0.03	0.28		0.095	0.091
831	0.09	0.11	0.00	0.01	0.01	0.00	0.01		0.002	0.002
SB 534	0.08	0.10	0.00	0.01	0.01	0.00	0.01		0.002	0.002
K-24 HT	1.18	1.40	0.03	0.11	0.11	0.01	0.08		0.026	0.025
K-24 DF	0.18	0.22	0.00	0.02	0.02	0.00	0.01		0.004	0.004
Panghorn Rotoblast SB- 159	--	--	12.59	12.59	12.59	--	--	--	--	--
Wheelabrator Type K Multi Tablblast SB- 185	--	--	12.55	12.55	12.55	--	--	--	--	--
Panghorn Rotoblast SB- 821	--	--	12.59	12.59	12.59	--	--	--	--	--
Wheelabrator Tumblast SB- 836	--	--	12.51	12.51	12.51	--	--	--	--	--
No. 2 Wheelabrator Tablblast SB- 859	--	--	12.59	12.59	12.59	--	--	--	--	--
Total PTE of Entire Source	10.69	12.73	63.08	63.81	63.81	0.08	0.70	15,368	0.24	0.23
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:

- (a) Two (2) natural gas fired boilers, identified as BO 1 and BO 2, both constructed in 1955, each with a maximum heat input rate of 5.146 million (MM) British thermal units (Btu) per hour, each exhausting through one (1) stack, identified as S 1 and S 2, respectively;
- (b) One (1) natural gas fired boiler, identified as office hot water boiler (BO 3), constructed in 1961, with a maximum heat input rate of 1.155 MMBtu/hr, exhausting through one (1) stack, identified as S34;
- (c) One (1) shot blaster, identified as Wheelabrator Tumblast (SB-836), constructed in 1988, blasting cast steel S-460 with a maximum rate of 714 lbs/hr, using a baghouse as control, and exhausting ~~through one (1) stack identified as S45~~ **inside the building**;
- (d) One (1) shot blaster, identified as Panghorn Rotoblast (T-159), constructed in 1957, blasting cast steel S-170 with a maximum rate of 718 lbs/hr, using a baghouse as control, and exhausting inside the building;
- (e) One (1) shot blaster, identified as Wheelabrator Type K Multi Tblblast (SB-185), constructed in 1963, blasting cast steel S-230 with a maximum rate of 716 lbs/hr, using a baghouse as control, and exhausting inside the building;
- (f) One (1) shot blaster, identified as Panghor Rotoblast (SB-821), constructed in 1988, blasting cast steel S-170 with a maximum rate of 718 lbs/hr, using a baghouse as control, and exhausting inside the building;
- (g) One (1) shot blaster, identified as No. 2 Wheelabrator Tablablast (SB-859), constructed in 1992, blasting cast steel S-170 with a maximum rate of 718 lbs/hr, using a baghouse as control, and exhausting inside the building;
- (h) ~~Three (3)~~ **Two (2)** Rx atmosphere gas generators, identified as K-30, ~~K-44,~~ and K-304, constructed in 1951, ~~1960,~~ and 1969 respectively, each with a maximum heat input capacity of 0.455 MMBtu/hr, and each exhausting through one (1) stack, identified as S 10, ~~S 14~~ and S 8, respectively;
- ~~(i) One (1) heated water spray washer, identified as SB-Y209, constructed in 1961, with a maximum heat input rate of 0.076, and exhausting through two (2) stacks, identified as S 22 and S 23;~~
- ~~(j)~~**(i)** One (1) heated water spray washer, identified as SB-300, constructed in 1967, with a maximum heat input rate of 0.152, and exhausting through two (2) stacks, identified as S 28 and S 30;
- ~~(k)~~**(j)** One (1) carburization & draw furnace with **separate** washer, identified as K-22, constructed in 1996, with a maximum heat input rate of 11.54 MMBtu/hr, and exhausting through five (5) stacks, identified as S 40, S 41, S 42, S 43, and S 44;
- ~~(l) One (1) carburization & draw furnace, identified as SB-K39, constructed in 1956, with a maximum heat input rate of 2.35 MMBtu/hr, and exhausting through six (6) stacks, identified as S 21, S 14, S 12, S 13, S 15 and S 16;~~
- ~~(m) One (1) carburization & draw furnace, identified as K-304, constructed in 1969, with a maximum heat input rate of 1.517 MMBtu/hr, and exhausting through four (4) stacks, identified as S 3, S 4, S 5, and S7;~~

- ~~(h)~~**(k)** One (1) continuous draw furnace, identified as 831, constructed in 1988, with a maximum heat input rate of 0.25 MMBtu/hr, and exhausting through one (1) stack, identified as S 40; and
- ~~(e)~~**(l)** One (1) lubrite tank heater, identified as SB 534, constructed in 1973, with a maximum heat input rate of 0.2275 MMBtu/hr, and exhausting through one (1) stack, identified as S 31.
- (m) One (1) natural gas fired heat treat furnace, identified as K-24 HT, approved in 2012 for construction, with a maximum capacity of 3.175 MMBtu/hr, and exhausting through two (2) stacks, identified as K 24 HT A and K 24 HT B.**
- (n) One (1) natural gas fired heat treat furnace, identified as K-24 DF, approved in 2012 for construction, with a maximum capacity of 0.5 MMBtu/hr, and exhausting through one (1) stack, identified as K 24 DF A.**
- (o) One (1) natural gas fired heat treat furnace, identified as K-41, constructed in 1960, with a maximum capacity of 0.38 MMBtu/hr, and exhausting through one (1) stack, identified as S 20.**

Additional Changes

IDEM, OAQ has decided to make additional revisions to the permit as described below in order to update the language to match the most current version of the applicable rule, to eliminate redundancy within the permit, and to provide clarification regarding the requirements of these conditions.

Summary of Permit Changes

(1) Removal of Source Mailing Address:

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 differential, shaft and gear manufacturing operation.

Source Address:	400 East Auburn Drive, Auburn, Indiana 46706
Mailing Address:	400 East Auburn Drive, Auburn, Indiana 46706
General Source Phone Number:	(260) 925-3200
SIC Code:	3566
County Location:	Dekalb
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

(2) Changes to Emission Unit Descriptions - Condition A.2:

These changes are noted above.

(3) Updates to General Requirements:

Certain Conditions of Section B and Section C are updated as follows to incorporate recent changes made to the standard conditions of the Operating permit. The list below summarizes these changes:

1. Several of IDEM's branches and sections have been renamed. Therefore, IDEM has updated the addresses listed in the permit. References to "Permit Administration and Development Section" and the "Permits Branch" have been changed to "Permit Administration and Support Section". References to "Asbestos Section", "Compliance Data Section", "Air Compliance Section", and "Compliance Branch" have been changed to "Compliance and Enforcement Branch".
4. For clarity, IDEM has changed references to the general conditions: "in accordance with Section B", "in accordance with Section C", or other similar language to "Section C...contains the Permittee's obligations with regard to the records required by this condition."
5. IDEM has decided that the phrases "no later than" and "not later than" are clearer than "within" in relation to the end of a timeline. Therefore all timelines have been switched to "no later than" or "not later than" except when the underlying rule states "within."
6. IDEM has determined that rather than having a certification condition and various references throughout the permit as to whether a particular report, notice, or correspondence needs to include a certification, the specific conditions that require an affirmation of truth and completeness shall state so. The certification condition has been removed. All statements to whether a certification, pursuant to the former Section B - Certification, is needed or not have been removed. Section B - Credible Evidence and Section C - Asbestos Abatement Projects still require certification as the underlying rules also require certifications.
7. IDEM has decided to clarify the requirements of Section B – Preventive Maintenance Plan and to add a new paragraph (b) to handle a future situation where the Permittee adds units that need preventive maintenance plans.
8. IDEM has revised the language of the Section B - Preventive Maintenance Plan, Section C - General Record Keeping, and Section C - General Reporting to allow the Permittee to not have to begin implementing the requirements of these conditions until ninety day after initial start up.
9. IDEM has revised the language of the Section B - Permit Renewal and Section B - Termination of Right to Operate to change the MSOP renewal application due date to one hundred twenty (120) prior to expiration of the current permit in order to match the rule.
10. IDEM has revised Section B - Permit Renewal paragraph (c) to state which rule establishes the authority to set a deadline for the Permittee to submit additional information.
11. IDEM has added 326 IAC 5-1-1 to the exception clause of Section C - Opacity, since 326 IAC 5-1-1 does list exceptions.
12. IDEM has revised Section C - Incineration to more closely reflect the two underlying rules.
13. IDEM has revised the language of the Section C - Asbestos Abatement Projects to change the terminology "Accredited" to "Licensed" in order to match the rule.
14. IDEM has removed the first paragraph of Section C - Performance Testing as due to the fact that specific testing conditions elsewhere in the permit will specify the timeline and procedures.
15. IDEM has removed Section C - Monitoring Methods. The conditions that require the monitoring or testing, if required, state what methods shall be used.

16. IDEM has revised Section C - Response to Excursions or Exceedances. The introduction sentence has been added to clarify that it is only when an excursion or exceedance is detected that the requirements of this condition need to be followed. The word "excess" was added to the last sentence of paragraph (a) because the Permittee only has to minimize excess emissions. The middle of paragraph (b) has been deleted as it was duplicative of paragraph (a). The phrase "or are returning" was added to subparagraph (b)(2) as this is an acceptable response assuming the operation or emission unit does return to normal or its usual manner of operation. The phrase "within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable" was replaced with "normal or usual manner of operation" because the first phrase is just a limited list of the second phrase. The recordkeeping required by paragraph (e) was changed to require only records of the response because the previously listed items are required to be recorded elsewhere in the permit.
17. IDEM has revised Section C - Actions Related to Noncompliance Demonstrated by a Stack Test. The requirements to take response steps and minimize excess emissions have been removed because Section C - Response to Excursions or Exceedances already requires response steps related to exceedances and excess emissions minimization. The start of the timelines was switched from "the receipt of the test results" to "the date of the test." There was confusion if the "receipt" was by IDEM, the Permittee, or someone else. Since the start of the timelines has been moved up, the length of the timelines was increased. The new timelines require action within a comparable timeline; and the new timelines still ensure that the Permittee will return to compliance within a reasonable timeframe.
18. The voice of paragraph (b) of Section C - General Record Keeping Requirements has been changed to clearly indicate that it is the Permittee that must follow the requirements of the paragraph.

The permit has been revised as follows with deleted language as ~~strikeouts~~ and new language **bolded**:

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

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. ~~The submittal by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~ Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 ~~Certification~~

- (a) ~~Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain~~

~~certification by an "authorized individual" of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.~~

~~(b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.~~

~~(c) An "authorized individual" is defined at 326 IAC 2-1.1-1(1).~~

B.9 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:

Compliance Branch, Office of Air Quality
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.109 Preventive Maintenance Plan [326 IAC 1-6-3]

(a) ~~If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement~~**A Preventive Maintenance Plans (PMPs) including the following information on each facility**~~Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:~~

- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
- (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
- (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

~~(b) The Permittee shall implement the PMPs.~~

(b) **If required by specific condition(s) in Section D of this permit where no PMP was previously required, 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.

- (c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. ~~The PMPs do not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~
- (ed) 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.4410 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to M033-22679-00015 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.4211 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 ~~ninety (90)~~ **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.4312 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 certification 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
~~Permits Branch~~ **Permit Administration and Support Section**, Office of Air Quality

~~MC 61-53 IGCN 1003~~
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 ~~ninety (90)~~ **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.4413 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
~~Permits Branch~~ **Permit Administration and Support Section**, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
~~Any such application shall be certified by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~
- (c) The Permittee shall notify the OAQ ~~with~~ **no later than** thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

B.4716 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
~~Permits Branch~~ **Permit Administration and Support Section**, Office of Air Quality

~~MC 691-53 IGCN 1003~~
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

The application which shall be submitted by the Permittee does require ~~the certification 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.1817 Annual Fee Payment [326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to ~~IDEM, OAQ within~~ **due no later than thirty (30) calendar days of receipt of a billing—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.

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

The Permittee shall not operate an incinerator ~~or incinerate any waste or refuse~~ except as provided in 326 IAC 4-2 ~~and/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.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

- (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
- (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
~~Asbestos Section~~ **Compliance and Enforcement Branch**, Office of Air Quality
MC 61-52 IGCN 1003
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. ~~The notifications do not require a certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~

- (e) **Procedures for Asbestos Emission Control**
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and Renovation**
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Accredited 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 Accredited Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Licensed Asbestos inspector is not federally enforceable.

C.9 Performance Testing [326 IAC 3-6]

-
- ~~(a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.~~

- A(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 ~~Data Section~~ **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. ~~The protocol submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. ~~The notification submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

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

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

C.13 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.14 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 ~~take appropriate response actions. The Permittee shall submit a description of these its response actions to IDEM, OAQ, within thirty (30)~~ **no later than seventy-five (75) days of receipt after the date of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.**
- (b) A retest to demonstrate compliance shall be performed ~~within~~ **no later than one hundred twenty (120) eighty (180) days of receipt of after the original date of the test results.** Should the Permittee demonstrate to IDEM, OAQ that retesting in one -hundred and ~~twenty (120) 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.

~~The response action documents submitted pursuant to this condition do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~

C.16 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 implemented within 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.17 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 ~~Data Section~~ **and Enforcement Branch**, Office of Air Quality
MC 61-53 IGCN 1003
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) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~
- ~~(c)~~ 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.
- ~~(e) The Permittee shall make the information required to be documented and maintained in accordance with (c) in Section C - General Record Keeping Requirements available for review upon a request for inspection by IDEM, OAQ. The general public may request this information from the IDEM, OAQ under 326 IAC 17.1.~~

(4) Changes to Emission Unit Descriptions - Section D.1:

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) Two (2) natural gas fired boilers, identified as BO 1 and BO 2, both constructed in 1955, each with a maximum heat input rate of 5.146 million (MM) British thermal units (Btu) per hour, each exhausting through one (1) stack, identified as S 1 and S 2, respectively;
- (b) One (1) natural gas fired boiler, identified as office hot water boiler (BO 3), constructed in 1961, with a maximum heat input rate of 1.155 MMBtu/hr, exhausting through one (1) stack, identified as S34;
- (c) One (1) shot blaster, identified as Wheelabrator Tumblast (SB-836), constructed in 1988, blasting cast steel S-460 with a maximum rate of 714 lbs/hr, using a baghouse as control, and exhausting through one (1) stack identified as S45 **inside the building**;
- (d) One (1) shot blaster, identified as Panghorn Rotoblast (T-159), constructed in 1957, blasting cast steel S-170 with a maximum rate of 718 lbs/hr, using a baghouse as control, and exhausting inside the building;
- (e) One (1) shot blaster, identified as Wheelabrator Type K Multi Tblblast (SB-185), constructed in 1963, blasting cast steel S-230 with a maximum rate of 716 lbs/hr, using a baghouse as control, and exhausting inside the building;
- (f) One (1) shot blaster, identified as Panghor Rotoblast (SB-821), constructed in 1988, blasting cast steel S-170 with a maximum rate of 718 lbs/hr, using a baghouse as control, and exhausting inside the building;
- (g) One (1) shot blaster, identified as No. 2 Wheelabrator Tablablast (SB-859), constructed in 1992, blasting cast steel S-170 with a maximum rate of 718 lbs/hr, using a baghouse as control, and exhausting inside the building;
- (h) ~~Three (3)~~ **Two (2)** Rx atmosphere gas generators, identified as K-30, K-41, and K-304,

	constructed in 1951, 1960 , and 1969 respectively, each with a maximum heat input capacity of 0.455 MMBtu/hr, and each exhausting through one (1) stack, identified as S 10, S 14 and S 8, respectively;
(i)	One (1) heated water spray washer, identified as SB-Y209, constructed in 1961, with a maximum heat input rate of 0.076, and exhausting through two (2) stacks, identified as S 22 and S 23;
(j) (i)	One (1) heated water spray washer, identified as SB-300, constructed in 1967, with a maximum heat input rate of 0.152, and exhausting through two (2) stacks, identified as S 28 and S 30;
(k) (j)	One (1) carburization & draw furnace with separate washer, identified as K-22, constructed in 1996, with a maximum heat input rate of 11.54 MMBtu/hr, and exhausting through five (5) stacks, identified as S 40, S 41, S 42, S 43, and S 44;
(l)	One (1) carburization & draw furnace, identified as SB-K39, constructed in 1956, with a maximum heat input rate of 2.35 MMBtu/hr, and exhausting through six (6) stacks, identified as S 21, S 14, S 12, S 13, S 15 and S 16;
(m)	One (1) carburization & draw furnace, identified as K-304, constructed in 1969, with a maximum heat input rate of 1.517 MMBtu/hr, and exhausting through four (4) stacks, identified as S 3, S 4, S 5, and S 7;
(n) (k)	One (1) continuous draw furnace, identified as 831, constructed in 1988, with a maximum heat input rate of 0.25 MMBtu/hr, and exhausting through one (1) stack, identified as S 40; and
(o) (l)	One (1) lubrite tank heater, identified as SB 534, constructed in 1973, with a maximum heat input rate of 0.2275 MMBtu/hr, and exhausting through one (1) stack, identified as S 31.
(m)	One (1) natural gas fired heat treat furnace, identified as K-24 HT, approved in 2012 for construction, with a maximum capacity of 3.175 MMBtu/hr, and exhausting through two (2) stacks, identified as K 24 HT A and K 24 HT B.
(n)	One (1) natural gas fired heat treat furnace, identified as K-24 DF, approved in 2012 for construction, with a maximum capacity of 0.5 MMBtu/hr, and exhausting through one (1) stack, identified as K 24 DF A.
(o)	One (1) natural gas fired heat treat furnace, identified as K-41, constructed in 1960, with a maximum capacity of 0.38 MMBtu/hr, and exhausting through one (1) stack, identified as S 20.
(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)	

(5) Removal of Certification Form:

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

**MINOR SOURCE OPERATING PERMIT (MSOP)
CERTIFICATION**

Source Name: Auburn Gear, Inc.
Source Address: 400 East Auburn Drive, Auburn, Indiana 46706
Mailing Address: 400 East Auburn Drive, Auburn, Indiana 46706
MSOP No.: M033-22679-00015

~~This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.~~

— Please check what document is being certified:

Annual Compliance Notification

Test Result (specify) _____

Report (specify) _____

Notification (specify) _____

Affidavit (specify) _____

Other (specify) _____

~~I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.~~

Signature: _____

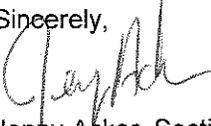
Printed Name: _____

Title/Position: _____

Date: _____

All other conditions of the permit shall remain unchanged and in effect. A copy of this permit is available on the Internet at: www.in.gov/ai/appfiles/idem-caats/.

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 Kimberly Cottrell, OAQ, 100 North Senate Avenue, MC 61-53, Room 1003, Indianapolis, Indiana, 46204-2251, or call at (800) 451-6027, and ask for Kimberly Cottrell or extension (3-0870), or dial (317) 233-0870.

Sincerely,

Jenny Acker, Section Chief
Permits Branch
Office of Air Quality

Attachments:
Updated Permit; PTE Calculations

JLA/klc

cc: File – DeKalb County

DeKalb County Health Department
U.S. EPA, Region V
Northern Regional Office
Compliance and Enforcement Branch
Interested Parties

Mr. Martin Palmer
Auburn Gear, Inc.
400 East Auburn Drive
Auburn, Indiana 46706-3499

Mr. W. D. Gabbard
Gabbard Environmental Services, Inc.
7611 Hope Farm Road
Fort Wayne, IN 46815-6541



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

Minor Source Operating Permit Renewal OFFICE OF AIR QUALITY

Auburn Gear, Inc.
400 East Auburn Drive
Auburn, Indiana 46706

(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.

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.

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.

Operation Permit No.: M033-22679-00015	
Original Signed by: Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: May 2, 2007 Expiration Date: May 2, 2017

First Notice-Only Change No.: M033-25732-00015, issued on February 1, 2008.

Administrative Amendment No.: 033-32446-00015	
Issued by:  Jenny Acker, Section Chief Permits Branch Office of Air Quality	Issuance Date: November 28, 2012 Expiration Date: May 2, 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 differential, shaft and gear manufacturing operation.

Source Address:	400 East Auburn Drive, Auburn, Indiana 46706
General Source Phone Number:	(260) 925-3200
SIC Code:	3566
County Location:	Dekalb
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD 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:

- (a) Two (2) natural gas fired boilers, identified as BO 1 and BO 2, both constructed in 1955, each with a maximum heat input rate of 5.146 million (MM) British thermal units (Btu) per hour, each exhausting through one (1) stack, identified as S 1 and S 2, respectively;
- (b) One (1) natural gas fired boiler, identified as office hot water boiler (BO 3), constructed in 1961, with a maximum heat input rate of 1.155 MMBtu/hr, exhausting through one (1) stack, identified as S34;
- (c) One (1) shot blaster, identified as Wheelabrator Tumblast (SB-836), constructed in 1988, blasting cast steel S-460 with a maximum rate of 714 lbs/hr, using a baghouse as control, and exhausting inside the building;
- (d) One (1) shot blaster, identified as Panghorn Rotoblast (T-159), constructed in 1957, blasting cast steel S-170 with a maximum rate of 718 lbs/hr, using a baghouse as control, and exhausting inside the building;
- (e) One (1) shot blaster, identified as Wheelabrator Type K Multi Tblblast (SB-185), constructed in 1963, blasting cast steel S-230 with a maximum rate of 716 lbs/hr, using a baghouse as control, and exhausting inside the building;
- (f) One (1) shot blaster, identified as Panghor Rotoblast (SB-821), constructed in 1988, blasting cast steel S-170 with a maximum rate of 718 lbs/hr, using a baghouse as control, and exhausting inside the building;
- (g) One (1) shot blaster, identified as No. 2 Wheelabrator Tablablast (SB-859), constructed in 1992, blasting cast steel S-170 with a maximum rate of 718 lbs/hr, using a baghouse as control, and exhausting inside the building;

- (h) Two (2) Rx atmosphere gas generators, identified as K-30 and K-304, constructed in 1951 and 1969 respectively, each with a maximum heat input capacity of 0.455 MMBtu/hr, and each exhausting through one (1) stack, identified as S 10 and S 8, respectively;
- (i) One (1) heated water spray washer, identified as SB-300, constructed in 1967, with a maximum heat input rate of 0.152, and exhausting through two (2) stacks, identified as S 28 and S 30;
- (j) One (1) carburization & draw furnace with separate washer, identified as K-22, constructed in 1996, with a maximum heat input rate of 11.54 MMBtu/hr, and exhausting through five (5) stacks, identified as S 40, S 41, S 42, S 43, and S 44;
- (k) One (1) continuous draw furnace, identified as 831, constructed in 1988, with a maximum heat input rate of 0.25 MMBtu/hr, and exhausting through one (1) stack, identified as S 40; and
- (l) One (1) lubrite tank heater, identified as SB 534, constructed in 1973, with a maximum heat input rate of 0.2275 MMBtu/hr, and exhausting through one (1) stack, identified as S 31.
- (m) One (1) natural gas fired heat treat furnace, identified as K-24 HT, approved in 2012 for construction, with a maximum capacity of 3.175 MMBtu/hr, and exhausting through two (2) stacks, identified as K 24 HT A and K 24 HT B.
- (n) One (1) natural gas fired heat treat furnace, identified as K-24 DF, approved in 2012 for construction, with a maximum capacity of 0.5 MMBtu/hr, and exhausting through one (1) stack, identified as K 24 DF A.
- (o) One (1) natural gas fired heat treat furnace, identified as K-41, constructed in 1960, with a maximum capacity of 0.38 MMBtu/hr, and exhausting through one (1) stack, identified as S 20.

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, M033-22679-00015, is issued for a fixed term of ten (10) 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) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:
 - (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.The Permittee shall implement the PMPs.
- (b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, 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.

- (c) 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.
- (d) 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 M033-22679-00015 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 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted.

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

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

All required notifications shall be submitted to:

Indiana Department of Environmental Management
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.9 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.10 Compliance Requirements [326 IAC 2-1.1-11]

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

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

C.11 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.12 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.13 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.14 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.15 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.16 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.17 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) 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:

- (a) Two (2) natural gas fired boilers, identified as BO 1 and BO 2, both constructed in 1955, each with a maximum heat input rate of 5.146 million (MM) British thermal units (Btu) per hour, each exhausting through one (1) stack, identified as S 1 and S 2, respectively;
- (b) One (1) natural gas fired boiler, identified as office hot water boiler (BO 3), constructed in 1961, with a maximum heat input rate of 1.155 MMBtu/hr, exhausting through one (1) stack, identified as S34;
- (c) One (1) shot blaster, identified as Wheelabrator Tumbblast (SB-836), constructed in 1988, blasting cast steel S-460 with a maximum rate of 714 lbs/hr, using a baghouse as control, and exhausting inside the building;
- (d) One (1) shot blaster, identified as Panghorn Rotoblast (T-159), constructed in 1957, blasting cast steel S-170 with a maximum rate of 718 lbs/hr, using a baghouse as control, and exhausting inside the building;
- (e) One (1) shot blaster, identified as Wheelabrator Type K Multi Tblblast (SB-185), constructed in 1963, blasting cast steel S-230 with a maximum rate of 716 lbs/hr, using a baghouse as control, and exhausting inside the building;
- (f) One (1) shot blaster, identified as Panghor Rotoblast (SB-821), constructed in 1988, blasting cast steel S-170 with a maximum rate of 718 lbs/hr, using a baghouse as control, and exhausting inside the building;
- (g) One (1) shot blaster, identified as No. 2 Wheelabrator Tablablast (SB-859), constructed in 1992, blasting cast steel S-170 with a maximum rate of 718 lbs/hr, using a baghouse as control, and exhausting inside the building;
- (h) Two (2) Rx atmosphere gas generators, identified as K-30 and K-304, constructed in 1951 and 1969 respectively, each with a maximum heat input capacity of 0.455 MMBtu/hr, and each exhausting through one (1) stack, identified as S 10 and S 8, respectively;
- (i) One (1) heated water spray washer, identified as SB-300, constructed in 1967, with a maximum heat input rate of 0.152, and exhausting through two (2) stacks, identified as S 28 and S 30;
- (j) One (1) carburization & draw furnace with separate washer, identified as K-22, constructed in 1996, with a maximum heat input rate of 11.54 MMBtu/hr, and exhausting through five (5) stacks, identified as S 40, S 41, S 42, S 43, and S 44;
- (k) One (1) continuous draw furnace, identified as 831, constructed in 1988, with a maximum heat input rate of 0.25 MMBtu/hr, and exhausting through one (1) stack, identified as S 40; and
- (l) One (1) lubrite tank heater, identified as SB 534, constructed in 1973, with a maximum heat input rate of 0.2275 MMBtu/hr, and exhausting through one (1) stack, identified as S 31.
- (m) One (1) natural gas fired heat treat furnace, identified as K-24 HT, approved in 2012 for construction, with a maximum capacity of 3.175 MMBtu/hr, and exhausting through two (2) stacks, identified as K 24 HT A and K 24 HT B.

- (n) One (1) natural gas fired heat treat furnace, identified as K-24 DF, approved in 2012 for construction, with a maximum capacity of 0.5 MMBtu/hr, and exhausting through one (1) stack, identified as K 24 DF A.
 - (o) One (1) natural gas fired heat treat furnace, identified as K-41, constructed in 1960, with a maximum capacity of 0.38 MMBtu/hr, and exhausting through one (1) stack, identified as S 20.
- (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 Matter Limitation (PM) [326 IAC 6-2-3]

Pursuant to 326 IAC 6-2-3 (Particulate Matter Emission Limitations for Sources of Indirect Heating), particulate matter (PM) emissions from the three (3) natural gas fired boilers, all constructed before 1983 (BO 1, BO 2, and BO 3), rated at 5.146, 5.146, and 1.155 million British thermal units per hour, respectively, shall each be limited to 0.8 lb PM/MMBtu.

D.1.2 Particulate Matter (PM) [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), particulate emissions from the five (5) shot blasters shall be limited as follows:

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

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

Emission Unit	Process Weight Rate (tons/hr)	Allowable PM Emissions (326 IAC 6-3-2) (lb/hr)
Panghorn Rotoblast (T-159)	0.36	2.06
Wheelabrator Type K Multi Tabblast (SB-185)	0.358	2.06
Panghorn Rotoblast (SB-821)	0.36	2.06
Wheelabrator Tumbblast (SB-836)	0.357	2.05
No. 2 Wheelabrator Tabblast (SB-859)	0.36	2.06

Compliance Determination Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.1.3 Particulate Matter (PM)

The baghouse for PM control shall be in operation at all times when any of the five (5) shot blaster is in operation.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE 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:	Auburn Gear, Inc.
Address:	400 East Auburn Drive
City:	Auburn, Indiana 46706
Phone #:	(260) 925-3200
MSOP #:	M033-22679-00015

I hereby certify that Auburn Gear, Inc. is :	<input type="checkbox"/> still in operation.
	<input type="checkbox"/> no longer in operation.
I hereby certify that Auburn Gear, Inc. is :	<input type="checkbox"/> in compliance with the requirements of MSOP M033-22679-00015.
	<input type="checkbox"/> not in compliance with the requirements of MSOP M033-22679-00015.

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 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 ?_____, 100TONS/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 PERM 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: Emission Calculations

Company Name: Auburn Gear, Inc.
 Address City IN Zip: 400 East Auburn Drive, Auburn, IN 46706
 Operation Permit Number: M033-22679-00015
 Issuance Date: May 2, 2007
 Administrative Amendment No.: 033-32446-00015
 Reviewer: Kimberly Cottrell
 Date: November 14, 2012

Uncontrolled Potential to Emit* (tons per year)	
Pollutant	New Emission Units
CO	1.50
NOx	1.79
PM	0.034
PM ₁₀	0.14
PM _{2.5}	0.14
SO ₂	0.011
VOC	0.10
GHG as CO ₂ e	2,157
Single HAP (Hexane)	0.032
Combined HAPs	0.034

* Based on 8760 hours of operation.

Uncontrolled Potential to Emit* (tons per year)			
Pollutant	Emission Units		Total
	Natural Gas Combustion	Shot Blasting	
CO	10.69	--	10.69
NOx	12.73	--	12.73
PM	0.24	62.84	63.08
PM ₁₀	0.97	62.84	63.81
PM _{2.5}	0.97	62.84	63.81
SO ₂	0.08	--	0.08
VOC	0.70	--	0.70
GHG as CO ₂ e	15,368	--	15,368
Single HAP (Hexane)	0.23	--	0.23
Combined HAPs	0.24	--	0.24

* Based on 8760 hours of operation.

Controlled Potential to Emit* (tons per year)			
Pollutant	Emission Units		Total
	Natural Gas Combustion	Shot Blasting	
CO	10.69	--	10.69
NOx	12.73	--	12.73
PM	0.24	0.63	0.87
PM ₁₀	0.97	0.63	1.60
PM _{2.5}	0.97	0.63	1.60
SO ₂	0.08	--	0.08
VOC	0.70	--	0.70
GHG as CO ₂ e	15,368	--	15,368
Single HAP (Hexane)	0.23	--	0.23
Combined HAPs	0.24	--	0.24

* Based on 8760 hours of operation.

Natural Gas Combustion Only - NEW EMISSION UNITS

MM BTU/HR <100

Company Name: Auburn Gear, Inc.
 Address City IN Zip: 400 East Auburn Drive, Auburn, IN 46706
 Operation Permit Number: M033-22679-00015
 Issuance Date: May 2, 2007
 Administrative Amendment No.: 033-32446-00015
 Reviewer: Kimberly Cottrell
 Date: November 14, 2012

Emission Unit	Heat Input Capacity	Potential Throughput	
	MMBtu/hr	MMCF/yr	
K-41 HT	0.38	3.33	previously mis-identified in permit
K-24 HT	3.2	28.03	new unit
K-24 DF	0.5	4.38	new unit
Total	4.1	35.74	

Emission Factor in lb/MMCF	Pollutant						
	CO	NO _x	PM*	PM ₁₀ *	PM _{2.5} *	SO ₂	VOC
	84.0	100.0	1.9	7.6	7.6	0.6	5.5
K-41 HT	0.14	**see below	0.0032	0.013	0.013	0.0010	0.009
K-24 HT	1.18	1.40	0.027	0.11	0.11	0.0084	0.08
K-24 DF	0.18	0.22	0.0042	0.017	0.017	0.0013	0.012
Potential Emission in tons/yr	1.50	1.79	0.034	0.14	0.14	0.011	0.10

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

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

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

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

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

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

See next page for HAPs emissions calculations.

HAPs Emissions

Emission Factor in lb/MMcf	HAPs - Organics				
	Benzene	Dichloro-benzene	Formaldehyde	Hexane	Toluene
K-41 HT	2.1E-03	1.2E-03	7.5E-02	1.80	3.4E-03
K-24 HT	3.5E-06	2.0E-06	1.2E-04	0.0030	5.7E-06
K-24 DF	2.9E-05	1.7E-05	1.1E-03	0.025	4.8E-05
Potential Emission in tons/yr	4.6E-06	2.6E-06	1.6E-04	0.0039	7.4E-06
	3.8E-05	2.1E-05	1.3E-03	0.032	6.1E-05

Emission Factor in lb/MMcf	HAPs - Metals					Total
	Lead	Cadmium	Chromium	Manganese	Nickel	
K-41 HT	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	0.0031
K-24 HT	8.3E-07	1.8E-06	2.3E-06	6.3E-07	3.5E-06	0.026
K-24 DF	7.0E-06	1.5E-05	2.0E-05	5.3E-06	2.9E-05	0.0041
Potential Emission in tons/yr	1.1E-06	2.4E-06	3.1E-06	8.3E-07	4.6E-06	0.034
	8.9E-06	2.0E-05	2.5E-05	6.8E-06	3.8E-05	

Methodology is the same as previous page.

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

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

Greenhouse Gas Emissions

Emission Factor in lb/MMcf	Greenhouse Gas		
	CO ₂	CH ₄	N ₂ O
K-41 HT	120,000	2.3	2.2
K-24 HT	200	0.004	0.004
K-24 DF	1,682	0.032	0.031
Potential Emission in tons/yr	263	0.005	0.005
	2,144	0.041	0.039
K-41 HT		200	
K-24 HT		1,682	
K-24 DF		263	
Summed Potential Emissions in tons/yr		2,145	
K-41 HT		201	
K-24 HT		1,692	
K-24 DF		264	
CO ₂ e Total in tons/yr		2,157	

Methodology

The N₂O Emission Factor for uncontrolled is 2.2. The N₂O Emission Factor for low NO_x burner is 0.64.

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.

Global 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).

Natural Gas Combustion Only
MM BTUHR <100

Company Name: Auburn Gear, Inc.
Address City IN Zip: 400 East Auburn Drive, Auburn, IN 46706
Operation Permit Number: 16033-20079-00015
Issuance Date: May 2, 2007
Administrative Amendment No.: 033-32446-00015
Reviewer: Kimberly Colwell
Date: November 14, 2012

Emission Unit	Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr
Plant boiler # 1	5.146	45.08
Plant boiler # 2	5.146	45.08
Boiler BO 3	1.155	10.12
K-30	0.455	3.99
K-41	0.455	3.99
K-41 HT	0.38	3.33
K-304	0.455	3.99
SB-300	0.152	1.35
K-22	11.54	101.09
831	0.25	2.19
SB 534	0.228	1.99
K-24 HT	3.2	28.03
K-24 DF	0.5	4.36
Potential Emissions	29.66	254.58
NEW Total	29.66	254.58

Emission Factor in lb/MMCF	Pollutant					
	CO	NO _x	PM ¹⁰	PM _{2.5}	SO _x	VOC
Plant boiler # 1	1.89	2.25	0.04	0.17	0.01	0.12
Plant boiler # 2	1.89	2.25	0.04	0.17	0.01	0.12
Boiler BO 3	0.42	0.51	0.01	0.04	0.04	0.03
K-30	0.17	0.20	0.00	0.02	0.02	0.01
K-41	0.17	0.20	0.00	0.02	0.02	0.01
K-41 HT	0.14	0.17	0.00	0.01	0.01	0.01
K-304	0.17	0.20	0.00	0.02	0.02	0.01
SB-300	0.06	0.07	0.00	0.01	0.01	0.00
K-22	4.25	5.05	0.10	0.38	0.38	0.28
831	0.09	0.11	0.00	0.01	0.01	0.00
SB 534	0.08	0.10	0.00	0.01	0.01	0.01
K-24 HT	1.18	1.40	0.03	0.11	0.11	0.08
K-24 DF	0.18	0.22	0.00	0.02	0.02	0.01
Potential Emissions (ton/yr)	10.69	12.73	0.24	0.97	0.98	0.70
NEW Potential Emissions (ton/yr)	10.69	12.73	0.24	0.97	0.98	0.70

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
**Emission Factors for NO_x: Uncontrolled = 100, Low NO_x Burner = 50, Low NO_x Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas
Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu
Emission Factors are from AP-42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 398)
Emission (ton/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

HAPs Emissions

Emission Factor in lb/MMCF	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Plant boiler # 1	2.1E-03	1.2E-03	7.5E-02	1.80	3.4E-03
Plant boiler # 2	4.7E-05	2.7E-05	1.7E-03	0.041	7.7E-05
Boiler BO 3	1.1E-05	6.1E-06	3.8E-04	0.009	1.7E-05
K-30	4.2E-06	2.4E-06	1.5E-04	0.004	6.8E-06
K-41	3.5E-06	2.0E-06	1.2E-04	0.003	5.7E-06
K-41 HT	4.2E-05	2.4E-05	1.5E-04	0.004	6.8E-06
K-304	4.2E-06	2.4E-06	1.5E-04	0.004	6.8E-06
SB-300	1.4E-06	8.0E-07	5.0E-05	0.001	2.3E-06
K-22	1.1E-04	6.1E-05	3.8E-03	0.091	1.7E-04
831	2.3E-06	1.3E-06	8.2E-05	0.002	3.7E-06
SB 534	2.1E-06	1.2E-06	7.5E-05	0.002	3.4E-06
K-24 HT	2.9E-05	1.7E-05	1.1E-03	0.023	4.8E-05
K-24 DF	4.6E-06	2.6E-06	1.6E-04	0.004	7.4E-06
Potential Emissions (ton/yr)	2.7E-04	1.5E-04	9.5E-03	0.23	4.3E-04
NEW Potential Emissions (ton/yr)	2.7E-04	1.5E-04	9.5E-03	0.23	4.3E-04

HAPs - Metals

Emission Factor in lb/MMCF	HAPs - Metals					Total
	Lead	Cadmium	Chromium	Manganese	Nickel	
Plant boiler # 1	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	0.043
Plant boiler # 2	1.1E-05	2.5E-05	3.2E-05	8.6E-06	4.7E-05	0.043
Boiler BO 3	2.5E-06	5.8E-06	7.1E-06	1.9E-06	1.1E-05	0.010
K-30	1.0E-06	2.2E-06	2.8E-06	7.8E-07	4.2E-06	0.004
K-41	8.6E-06	3.8E-06	4.8E-06	2.4E-05	4.3E-06	0.004
K-41 HT	3.3E-07	1.8E-06	2.3E-06	6.3E-07	3.5E-06	0.003
K-304	1.0E-06	2.2E-06	2.8E-06	7.8E-07	4.2E-06	0.004
SB-300	3.3E-07	7.3E-07	9.3E-07	2.5E-07	1.4E-06	0.001
K-22	2.5E-05	5.8E-05	7.1E-05	1.9E-05	1.1E-04	0.005
831	3.3E-06	1.8E-06	2.3E-06	6.3E-07	3.5E-06	0.003
SB 534	5.5E-07	1.2E-06	1.5E-06	4.2E-07	2.3E-06	0.002
K-24 HT	7.0E-06	1.5E-05	2.0E-05	5.3E-06	2.9E-05	0.026
K-24 DF	1.1E-06	2.4E-06	3.1E-06	8.3E-07	4.6E-06	0.004
Potential Emissions (ton/yr)	6.4E-05	1.4E-04	1.8E-04	4.8E-05	2.7E-04	0.240
NEW Potential Emissions (ton/yr)	6.4E-05	1.4E-04	1.8E-04	4.8E-05	2.7E-04	0.240

The five highest organic and metal HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Greenhouse Gas Emissions

Emission Factor in lb/MMCF	Greenhouse Gas		
	CO ₂	CH ₄	N ₂ O
Plant boiler # 1	120,000	2.3	2.2
Plant boiler # 2	2,700	0.26	0.26
Boiler BO 3	2,700	0.26	0.26
K-30	607	1.2E-02	1.1E-02
K-41	239	4.6E-03	4.4E-03
K-41 HT	200	3.8E-03	3.7E-03
K-304	239	4.6E-03	4.4E-03
SB-300	46	9.0E-04	8.6E-04
K-22	6,055	1.2E-01	1.1E-01
831	131	2.5E-03	2.4E-03
SB 534	120	2.3E-03	2.2E-03
K-24 HT	1,482	3.3E-02	3.1E-02
K-24 DF	263	5.0E-03	4.8E-03
Potential Emissions (ton/yr)	15,275	0.29	0.28
NEW Potential Emissions (ton/yr)	15,275	0.29	0.28
NEW Summed Potential Emissions in tons/yr	15,275		
NEW Total in tons/yr	15,275		

Methodology

The N₂O Emission Factor for uncontrolled is 2.2. The N₂O Emission Factor for low NO_x burner is 0.64.
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.
Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
Emission (ton/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
CO₂ (ton/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).

Shot Blasting

Company Name: Auburn Gear, Inc.
 Address City IN Zip: 400 East Auburn Drive, Auburn, IN 46706
 Operation Permit Number: M033-22679-00015
 Issuance Date: May 2, 2007
 Administrative Amendment No.: 033-32446-00015
 Reviewer: Kimberly Cottrell
 Date: November 9, 2012

Table 1 - Emission Factors for Abrasives

Abrasive	Emission Factor	
	lb PM / lb abrasive	lb PM10 / lb PM
Sand	0.041	0.70
Grit	0.010	0.70
Steel Shot	0.004	0.86
Other	0.010	

Table 2 - Density of Abrasives (lb/ft³)

Abrasive	Density (lb/ft ³)
Al oxides	160
Sand	99
Steel	487

Table 3 - Sand Flow Rate (FR1) Through Nozzle (lb/hr)

Flow rate of Sand Through a Blasting Nozzle as a Function of Nozzle pressure and Internal Diameter

Internal diameter, in	Nozzle Pressure (psig)							
	30	40	50	60	70	80	90	100
1/8	28	35	42	49	55	63	70	77
3/16	65	80	94	107	122	135	149	165
1/4	109	138	168	195	221	255	280	309
5/16	205	247	292	354	377	420	462	507
3/8	285	355	417	477	540	600	657	720
7/16	385	472	560	645	755	820	905	940
1/2	503	615	725	835	945	1050	1160	1265
5/8	820	990	1170	1336	1510	1680	1850	2030
3/4	1140	1420	1670	1915	2160	2400	2630	2880
1	2030	2460	2900	3340	3780	4200	4640	5060

Calculations

Adjusting Flow Rates for Different Abrasives and Nozzle Diameter:

Flow Rate (FR) = Abrasive flow rate (lb/hr) with internal nozzle diameter (ID)

FR1 = Sand flow rate (lb/hr) with internal nozzle diameter (ID1) From Table 3 =

D = Density of abrasive (lb/ft³) From Table 2 =

D1 = Density of sand (lb/ft³) =

ID = Actual nozzle internal diameter (in) =

ID1 = Nozzle internal diameter (in) from Table 3 =

Flow Rate (FR) (lb/hr) per nozzle =

Uncontrolled Emissions (E, lb/hr)

EF = emission factor (lb PM/ lb abrasive) From Table 1 =

FR = Flow Rate (lb/hr) =

w = fraction of time of wet blasting (%) =

N = number of nozzles =

Uncontrolled Emissions (lb/hr) =

Uncontrolled Emissions (ton/yr) =

Controlled Emissions (ton/yr) =

	Panghorn Rotoblast SB-159	Wheelabrator Type K Multi Tabblast SB-185	Panghorn Rotoblast SB-821	Wheelabrator Tumbblast SB-836	No. 2 Wheelabrator Tabblast SB-859
FR1	238	238	238	238	238
D	299	298	299	297	299
D1	99	99	99	99	99
ID	0.25	0.25	0.25	0.25	0.25
ID1	0.25	0.25	0.25	0.25	0.25
Flow Rate (FR)	718.808	716.404	718.808	714.000	718.808
EF	0.004	0.004	0.004	0.004	0.004
FR	718.808	716.404	718.808	714.000	718.808
w	0	0	0	0	0
N	1	1	1	1	1
Uncontrolled Emissions (lb/hr)	2.88	2.87	2.88	2.86	2.88
Uncontrolled Emissions (ton/yr)	12.59	12.55	12.59	12.51	12.59
Controlled Emissions (ton/yr)	0.13	0.13	0.13	0.13	0.13

METHODOLOGY

Emission Factors from STAPPA/ALAPCO "Air Quality Permits", Vol. I, Section 3 "Abrasive Blasting" (1991 edition)

Ton/yr = lb/hr X 8760 hr/yr X ton/2000 lbs

Flow Rate (FR) (lb/hr) = FR1 x (ID/ID1)² x (D/D1)

E = EF x FR x (1-w/200) x N

w should be entered in as a whole number (if w is 50%, enter 50)



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: Grant Merriman
Auburn Gear, Inc.
400 E Auburn Drive
Auburn, IN 46706-3499

DATE: November 28, 2012

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

SUBJECT: Final Decision
Administrative Amendment to MSOP
033-32446-00015

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:
Martin Palmer, Responsible Official
W.D. Gabbard, Gabbard Environmental Services, Inc.
OAQ Permits Branch Interested Parties List

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

Final Applicant Cover letter.dot 11/30/07

Mail Code 61-53

IDEM Staff	PWAY 11/28/2012 Auburn Gear Inc 033-32446-00015 (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		

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											Remarks
1		Grant Merriman Auburn Gear Inc 400 E Auburn Dr Auburn IN 46706-3499 (Source CAATS)									
2		Martin Palmer President Auburn Gear Inc 400 E Auburn Dr Auburn IN 46706-3499 (RO CAATS)									
3		Mr. Steve Christman NISWMD 2320 W 800 S, P.O. Box 370 Ashley IN 46705 (Affected Party)									
4		DeKalb County Commissioners 100 South Main Street Auburn IN 46706 (Local Official)									
5		Ms. Diane Leroy 303 N. Jackson St. Auburn IN 46706 (Affected Party)									
6		Mr. Barry Fordanish R#3 1480 CR 66 Auburn IN 46706 (Affected Party)									
7		Auburn City Council and Mayors Office P.O. Box 506 Auburn IN 46706-0506 (Local Official)									
8		DeKalb County Health Department 220 E 7th St #110 Auburn IN 46706 (Health Department)									
9		Daniel & Sandy Trimmer 15021 Yellow River Road Columbia City IN 46725 (Affected Party)									
10		Brown & Sons Fuel Co. P.O. Box 665 Kendallville IN 46755 (Affected Party)									
11		Mr. Marty K. McCurdy 2550 County Road 27 Waterloo IN 46793 (Affected Party)									
12		W.D. Gabbard Gabbard Environmental Services, Inc. 7611 Hope Farm Road Fort Wayne IN 46815 (Consultant)									
13											
14											
15											

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