



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

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Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

TO: Interested Parties / Applicant

DATE: July 31, 2013

RE: Husqvarna Consumer Outdoor Products / 175-33330-00009

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.dot 6/13/2013



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Mr. Bruce Peters
Husqvarna Consumer Outdoor Products
1555 South Jackson Street
Salem, IN 47167

July 31, 2013

Re: 175-33330-00009
First Administrative Amendment to
M175-32056-00009

Dear Mr. Peters,

Husqvarna Consumer Outdoor Products was issued a Minor Source Operating Permit (MSOP) Renewal No. M175-32056-00009 on October 16, 2012 for a stationary lawn and garden equipment transmission and testing plant, located at 1555 South Jackson Street, Salem, IN 47167. On June 20, 2013, the Office of Air Quality (OAQ) received an application from the source requesting to modify the electric powered dyno-room test stands to remove the back-up fuel of unleaded gasoline and to remove the gasoline storage tanks.

Pursuant to 326 IAC 2-6.1-6(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 removal of the dyno-room test stand back-up fuel and gasoline storage tanks will continue to be within the threshold levels specified in 326 IAC 2-6.1 (MSOP). See Appendix A for the revised limited PTE of the source after the removal of the dyno-room test stand and gasoline storage tanks.

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)									
	PM	PM10*	PM2.5*	SO ₂	NO _x	VOC	CO	GHGs as CO ₂ e**	Total HAPs	Worst Single HAP
Dyno Room Test Stand #1	0.08	0.08	0.08	0.06	1.20	1.64	0.76	118.27	1.00	0.36 (Toluene)
Shotblasters (TC1637 and TC2436)	45.05 10.44	45.05 10.53	45.05 10.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00 (NA)
Shotblaster (TC2436)	10.44 10.44	10.53 10.53	10.53 10.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00 (NA)
Shotblaster (TC1651)	8.45 20.18	8.45 28.15	8.45 28.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00 (NA)
Metal Machining	27.03 0.00	27.03 0.00	27.03 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 (NA)
Axle polishing	13.52 0.10	13.52 0.10	13.52 0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00 (NA)



A State that Works

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of MSOP Administrative Amendment (tons/year)									
	PM	PM10*	PM2.5*	SO ₂	NOx	VOC	CO	GHGs as CO ₂ e**	Total HAPs	Worst Single HAP
Natural Gas	0.47	1.88	1.88	0.15	24.73	1.36	20.78	29681.75	0.47	0.45 (Hexane)
Bulk Gasoline Storage Tank	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.9	0.03 (Toluene)
Storage Tanks	0.00	0.00	0.00	0.00	0.00	negl.	0.00	0.00	negl.	negl.
Welding/Cutting	0.09	0.09	0.09	0.00	0.00	0.00	0.00	0.00	4.51E-03	0.00 (Manganese)
Total PTE of Entire Source	94.69 41.72	96.10 51.27	96.10 51.27	0.21 0.15	26.93 24.73	3.15 1.36	21.54 20.78	29800.02 29861.26	1.56 0.47	0.45 (Hexane)
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), PM10 and PM2.5, not particulate matter (PM), are each 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)									
	PM	PM10*	PM2.5*	SO ₂	NOx	VOC	CO	GHGs as CO ₂ e**	Total HAPs	Worst Single HAP
Shotblasters (TC1637)	10.44	10.53	10.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00 (NA)
Shotblaster (TC2463)	10.44	10.53	10.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00 (NA)
Shotblaster (TC1651)	20.18	28.15	28.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00 (NA)
Metal Machining	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 (NA)
Axle polishing	0.10	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00 (NA)
Natural Gas	0.47	1.88	1.88	0.15	24.73	1.36	20.78	29681.75	0.47	0.45 (Hexane)
Storage Tanks	0.00	0.00	0.00	0.00	0.00	negl.	0.00	0.00	negl.	negl.
Welding/Cutting	0.09	0.09	0.09	0.00	0.00	0.00	0.00	0.00	4.51E-03	0.00 (Manganese)
Total PTE of Entire Source	41.72	51.27	51.27	0.15	24.73	1.36	20.78	29861.26	0.47	0.45 (Hexane)

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of MSOP Administrative Amendment (tons/year)									
	PM	PM10*	PM2.5*	SO ₂	NO _x	VOC	CO	GHGs as CO ₂ e**	Total HAPs	Worst Single HAP
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), PM10 and PM2.5, not particulate matter (PM), are each 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.

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

The Permittee owns and operates a stationary lawn and garden equipment transmission and testing plant.

Source Address: 1555 South Jackson Street, Salem, Indiana 47167
 General Source Phone Number: 812-883-3575
 SIC Code: 3568 (Mechanical Power Transmission Equipment, Not Elsewhere Classified)
 County Location: Washington
 Source Location Status: Attainment for all criteria pollutants
 Source Status: Minor Source Operating Permit Program
 Minor Source, under PSD and Emission Offset Rules
 Minor Source, Section 112 of the Clean Air Act
 Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary

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

- (f) One (1) twenty-five (25) horsepower (hp), electric powered, dyno room engine test stand, identified as dyno room #1 test stand, testing transmissions, with unleaded gasoline as a back-up fuel and a maximum capacity of seven (7) pounds per hour of unleaded gasoline, exhausting to stack ETS-2, constructed in 1999;

~~Under 40 CFR 63, Subpart ZZZZ, the dyno room #1 test stand is an affected facility.~~

- (g) One (1) twenty-five (25) horsepower (hp), electric powered, dyno room engine test stand, identified as dyno room #2 test stand, testing transmissions, ~~exhausting to stack ETS-1, constructed in 1999;~~
- (h) Storage Tanks, including:
 - (1) ~~One (1) 270-gallon gasoline storage tank;~~
 - (21) One (1) 6,000 gallon used oil storage tank;

- (32) One (1) 8,000 gallon gear oil storage tank;
- (43) One (1) 4,000 gallon hydraulic oil storage tank;
- (54) One (1) 5,000 gallon hydraulic oil storage tank;
- (65) One (1) 5,000 gallon gearbox grease storage tank;
- (76) One (1) 3,000 gallon gearbox grease storage tank;
- (87) One (1) 12,000 gallon wastewater storage tank;
- (98) One (1) 6,500 gallon filtration tank;
- (109) One (1) 1,500 gallon recycled cutting oil storage tank; and
- (1110) One (1) 6,000 gallon cutting oil storage tank.

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

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

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the following emission units and control devices shall not exceed the pounds per hour limitation when operating at the stated process weight rates calculated using the following equations:

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 (dust collector)	Process weight rate (tons per hour)	Allowable particulate emission rate (pounds per hour)
Shot Blast Machines TC1637 and TC2436 (TC#1735)	0.89 total 0.445	3.79 total 2.38
Shot Blast Machine TC2436 (TC#1735)	0.445	2.38
Shot Blast Machine TC1651 (TC#1651)	1.19	4.61
Metal Machining Operation (TC#1650)	0.0045	0.11
Axle Polishing (dust collector)	0.51	2.61

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (e) Natural gas-fired combustion sources with heat input equal to or less than 10 MMBtu per hour, including:
- (1) One (1) boiler unit, located in the Back Mechanical Room in the Assembly Department, with a heat input rate of 0.9 MMBtu/hr, exhausting to vent HWB-1;
 - (2) ~~One (1) HVAC unit, with a heat input rate of 4.7 MMBtu/hr, for the south side of Building "A", exhausting to vent MAU-1;~~
 - (3) ~~One (1) HVAC unit, with a heat input rate of 4.7 MMBtu/hr, for the north side of Building "A", exhausting to vent MAU-2;~~
 - (4) ~~One (1) HVAC unit, with a heat input rate of 4.225 MMBtu/hr, for Building "B," exhausting to vent MAU-3;~~
 - (5) ~~One (1) HVAC unit, with a heat input rate of 4.225 MMBtu/hr, for Building "D," exhausting to vent MAU-4;~~
 - (6) ~~One (1) HVAC unit, with a heat input rate of 4.225 MMBtu/hr, for Building "E," exhausting to vent MAU-5;~~
 - (7) ~~One (1) HVAC unit, with a heat input rate of 4.225 MMBtu/hr, for Building "D," exhausting to vent MAU-6;~~
 - (8) ~~One (1) HVAC unit, with a heat input rate of 4.225 MMBtu/hr, for Building "C", exhausting to vent MAU-7;~~
 - (9) ~~One (1) non-heat treat axle temper draw furnace, located in Building "D," with a heat input rate of 1.475 MMBtu/hr, exhausting to vents GEF-23, GEF-25, and SAF-2;~~
 - (10) ~~One (1) radiant tube heating system, located in the Assembly Department, with a heat input rate of 1.08 MMBtu/hr, exhausting to vents CVR-1 and CVR-2;~~
 - (11) ~~One (1) HVAC unit, with a heat input rate of 5.0 MMBtu/hr, for the West side assembly area, exhausting to vent MAU-15;~~
 - (12) ~~Four (4) water heaters, with a combined heat input rate of 0.29 MMBtu/hr, exhausting to vents 39A (front offices), 21A (abcor room), 7A (sales office), and 28A (front mechanical room);~~
 - (13) ~~Seven (7) HVAC units, with a combined heat input rate of 3.99 MMBtu/hr, exhausting to vents 18A (Engineering Offices), RT-1, RT-2, RTMZ-1 (front offices), RT-3 (receiving dock), MAU-8 (assembly), and MAU-RDL (R&D);~~
 - (14) ~~Eight (8) office furnaces, with a combined heat input rate of 1.32 MMBtu/hr, exhausting to vents 7A, 8A, 9A (sales/training room), 10A, 10B, and 10C (offices near back mechanical room);~~
 - (15) ~~Ten (10) ceiling duct furnaces, with a combined heat input rate of 3.24 MMBtu/hr, exhausting to vents 29A (steel dock - Building "E"), 34A (assembly), 32A (maintenance shop - Building "C"), 30A (tool room - Building "D"), 35A (Building~~

"B"), 5A (blast room - Building "A"), 6A (receiving deck), and GUH-1 (back mechanical room); and

~~(16) One (1) draw furnace, heat input 0.55 MM-BTU/hr, exhausting to vent 33A.~~

(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.2.1 Particulate Emission Limitations for Sources of Indirect Heating [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4, the particulate emissions from the natural gas fired boiler shall not exceed 0.6 lb/MMBtu heat input.

SECTION E.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (f) One (1) twenty five (25) horsepower (hp), electric powered, dyno room engine test stand, identified as dyno room #1 test stand, testing transmissions, with unleaded gasoline as a back-up fuel and a maximum capacity of seven (7) pounds per hour of unleaded gasoline, exhausting to stack ETS-2, constructed in 1999;

Under 40 CFR 63, Subpart ZZZZ, the dyno room #1 test stand is an affected facility.

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

National Emissions Standards for Hazardous Air Pollutants (NESHAP) Requirements: Stationary Reciprocating Internal Combustion Engines

E.1.1 General Provisions Relating to National Emissions Standards for Hazardous Air Pollutants under 40 CFR Part 63 [326 IAC 20-1] [40 CFR Part 63, Subpart A]

- (a) Pursuant to 40 CFR 63.340(b), the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-82, for the reciprocating internal combustion engine as specified in Table 8 of 40 CFR Part 63, Subpart ZZZZ in accordance with the schedule in 40 CFR 63, Subpart ZZZZ.

- (b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports 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 46204-2254

E.1.2 National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines [40 CFR Part 63, Subpart ZZZZ]

- (a) The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart ZZZZ (included as Attachment A) which are incorporated by reference as 326 IAC 20-82 for the dyno room engine test stand, identified as dyno room #1 test stand:

- (1) 40 CFR 63.6580
- (2) 40 CFR 63.6585
- (3) 40 CFR 63.6590(a)(1)(iii)
- (4) 40 CFR 63.6595(a)(1), (b), and (c)
- (5) 40 CFR 63.6603
- (6) 40 CFR 63.6605
- (7) 40 CFR 63.6625(e)(7) or (e)(8) and (h)
- (8) 40 CFR 63.6635
- (9) 40 CFR 63.6640
- (10) 40 CFR 63.6650
- (11) 40 CFR 63.6655
- (12) 40 CFR 63.6660
- (13) 40 CFR 63.6665

- (14) ~~40 CFR 63.6670~~
- (15) ~~40 CFR 63.6675~~
- (16) ~~Table 2d(items 7 and 9)~~
- (17) ~~Table 8~~

Additional Changes

IDEM, OAQ made 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.

1. 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."

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

D.1.2 Preventive Maintenance Plan [326 IAC 1-6-3]

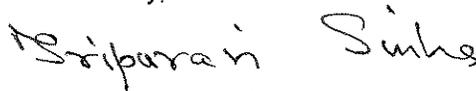
~~A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and any control devices.~~ **Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.**

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

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

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Deena Patton of my staff at 317-234-5400 or 1-800-451-6027, and ask for extension 4-5400.

Sincerely,



Tripurari P. Sinha, Ph. D., Section Chief
Permits Branch
Office of Air Quality

Attachments: Updated Permit and Appendix A

TS /DP

cc: File - Washington County
Washington County Health Department
U.S. EPA, Region V
Compliance and Enforcement Branch



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Minor Source Operating Permit Renewal OFFICE OF AIR QUALITY

**Husqvarna Consumer Outdoor Products
1555 South Jackson Street
Salem, Indiana 47167**

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

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

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

Operation Permit No.: M175-32056-00009	
Original Signed/Issued by: Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: October 16, 2012 Expiration Date: October 16, 2022

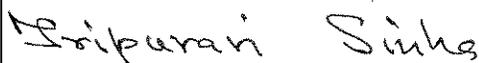
First Administrative Amendment No.: 175-33330-00009	
Issued by:  Tripurari P. Sinha, Ph.D., Section Chief Permits Branch Office of Air Quality	Issuance Date: July 31, 2013 Expiration Date: October 16, 2022

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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 lawn and garden equipment transmission and testing plant.

Source Address:	1555 South Jackson Street, Salem, Indiana 47167
General Source Phone Number:	812-883-3575
SIC Code:	3568 (Mechanical Power Transmission Equipment, Not Elsewhere Classified)
County Location:	Washington
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) shotblasters, identified as shot blast machine TC1637 and TC2436, constructed in 2008 with a maximum throughput rate of 0.89 tons per hour total, with particulate matter controlled by a cartridge-type dust collector (TC# 1735), which exhausts to the indoors;
- (b) One (1) shotblaster, identified as shot blast machine TC1651, constructed in 2008 with a maximum throughput rate of 1.19 tons per hour with particulate matter controlled by a single cartridge-type dust collector (TC#1651), which exhausts to the indoors;
- (c) One (1) metal machining operation, located in Tool Room Building "D," consisting of surface grinding, deburring, and machining using a water-soluble oil coolant, constructed in 2008 with a maximum throughput rate of 0.0045 tons per hour with particulate matter controlled by a cartridge-type dust collector system (TC#1650), which exhausts to the outdoors;
- (d) One (1) axle polishing operation, located in Building "D," constructed in 2008, with a maximum throughput rate of 0.51 tons per hour with particulate matter controlled by a cartridge-type dust collector system, which exhausts to the indoors;
- (e) Natural gas-fired combustion sources with heat input equal to or less than 10 MMBtu per hour, including:
 - (1) One (1) boiler unit, located in the Back Mechanical Room in the Assembly Department, with a heat input rate of 0.9 MMBtu/hr, exhausting to vent HWB-1;
 - (2) One (1) HVAC unit, with a heat input rate of 4.7 MMBtu/hr, for the south side of Building "A", exhausting to vent MAU-1;

- (3) One (1) HVAC unit, with a heat input rate of 4.7 MMBtu/hr, for the north side of Building "A", exhausting to vent MAU-2;
 - (4) One (1) HVAC unit, with a heat input rate of 4.225 MMBtu/hr, for Building "B," exhausting to vent MAU-3;
 - (5) One (1) HVAC unit, with a heat input rate of 4.225 MMBtu/hr, for Building "D," exhausting to vent MAU-4;
 - (6) One (1) HVAC unit, with a heat input rate of 4.225 MMBtu/hr, for Building "E," exhausting to vent MAU-5;
 - (7) One (1) HVAC unit, with a heat input rate of 4.225 MMBtu/hr, for Building "D," exhausting to vent MAU-6;
 - (8) One (1) HVAC unit, with a heat input rate of 4.225 MMBtu/hr, for Building C, exhausting to vent MAU-7;
 - (9) One (1) non-heat treat axle temper draw furnace, located in Building "D," with a heat input rate of 1.475 MMBtu/hr, exhausting to vents GEF-23, GEF-25, and SAF-2;
 - (10) One (1) radiant tube heating system, located in the Assembly Department, with a heat input rate of 1.08 MMBtu/hr, exhausting to vents CVR-1 and CVR-2;
 - (11) One (1) HVAC unit, with a heat input rate of 5.0 MMBtu/hr, for the West side assembly area, exhausting to vent MAU-15;
 - (12) Four (4) water heaters, with a combined heat input rate of 0.29 MMBtu/hr, exhausting to vents 39A (front offices), 21A (abcor room), 7A (sales office), and 28A (front mechanical room);
 - (13) Seven (7) HVAC units, with a combined heat input rate of 3.99 MMBtu/hr, exhausting to vents 18A (Engineering Offices), RT-1, RT-2, RTMZ-1 (front offices), RT-3 (receiving dock), MAU-8 (assembly), and MAU-RDL (R&D);
 - (14) Eight (8) office furnaces, with a combined heat input rate of 1.32 MMBtu/hr, exhausting to vents 7A, 8A, 9A (sales/training room), 10A, 10B, and 10C (offices near back mechanical room);
 - (15) Ten (10) ceiling duct furnaces, with a combined heat input rate of 3.24 MMBtu/hr, exhausting to vents 29A (steel dock - Building "E"), 34A (assembly), 32A (maintenance shop - Building "C"), 30A (tool room - Building "D"), 35A (Building "B"), 5A (blast room - Building "A"), 6A (receiving dock), and GUH-1 (back mechanical room); and
 - (16) One (1) draw furnace, heat input 0.55 MM BTU/hr, exhausting to vent 33A.
- (f) One (1) twenty-five (25) horsepower (hp), electric powered, dyno room engine test stand, identified as dyno room #1 test stand, testing transmissions.
- (g) One (1) twenty-five (25) horsepower (hp), electric powered, dyno room engine test stand, identified as dyno room #2 test stand, testing transmissions.
- (h) Storage Tanks, including:

- (1) One (1) 6,000 gallon used oil storage tank;
 - (2) One (1) 8,000 gallon gear oil storage tank;
 - (3) One (1) 4,000 gallon hydraulic oil storage tank;
 - (4) One (1) 5,000 gallon hydraulic oil storage tank;
 - (5) One (1) 5,000 gallon gearbox grease storage tank;
 - (6) One (1) 3,000 gallon gearbox grease storage tank;
 - (7) One (1) 12,000 gallon wastewater storage tank;
 - (8) One (1) 6,500 gallon filtration tank;
 - (9) One (1) 1,500 gallon recycled cutting oil storage tank; and
 - (10) One (1) 6,000 gallon cutting oil storage tank.
- (i) One (1) natural gas-fired, two stage axle parts washer, located in Building "D," constructed in 2008, with a heat input capacity of 1.6 MMBtu/hr, exhausting to vents 23C and 23D. This washer uses non-VOC and non-HAP solvents;
 - (j) Two (2) arc welding booths, identified as 4252 and 4195, located in Assembly, consisting of metal inert gas (MIG) welding utilizing solid core carbon steel wire, controlled by a Torit Downflo DF-T2-8 Dust Collector, and exhausting to the indoors, located in Assembly
 - (k) One (1) metal cutting booth, consisting of plasma and oxyacetylene metal cutting, with a maximum metal cutting rate of 10 feet per hour each, uncontrolled and exhausting to vent GEF-40;
 - (l) One (1) de-rust dip tank. This dip tank uses non-VOC and non-HAP solvents; and
 - (m) One (1) rust inhibitor dip tank. This dip tank uses non-VOC and non-HAP solvents.
 - (n) One arc-welding booth, consisting of shielded metal arc, gas metal arc and fluxed cored arc welding, uncontrolled and exhausted to vent GEF-40.

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, M175-32056-00009, 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 M175-32056-00009 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) shotblasters, identified as shot blast machine TC1637 and TC2436, constructed in 2008 with a maximum throughput rate of 0.89 tons per hour total, with particulate matter controlled by a cartridge-type dust collector (TC# 1735), which exhausts to the indoors;
- (b) One (1) shotblaster, identified as shot blast machine TC1651, constructed in 2008, with a maximum throughput rate of 1.19 tons per hour with particulate matter controlled by a single cartridge-type dust collector (TC#1651), which exhausts to the indoors;
- (c) One (1) metal machining operation, located in Tool Room Building "D," consisting of surface grinding, deburring, and machining using a water-soluble oil coolant, constructed in 2008 with a maximum throughput rate of 0.0045 tons per hour with particulate matter controlled by a cartridge-type dust collector system (TC#1650), which exhausts to the outdoors;
- (d) One (1) axle polishing operation, located in Building "D," constructed in 2008 with a maximum throughput rate of 0.51 tons per hour with particulate matter controlled by a cartridge-type dust collector system, which exhausts to the indoors;

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

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

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

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the following emission units and control devices shall not exceed the pounds per hour limitation when operating at the stated process weight rates calculated using the following equations:

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 (dust collector)	Process weight rate (tons per hour)	Allowable particulate emission rate (pounds per hour)
Shot Blast Machine TC1637	0.445	2.38
Shot Blast Machine TC2436 (TC#1735)	0.445	2.38
Shot Blast Machine TC1651 (TC#1651)	1.19	4.61
Metal Machining Operation (TC#1650)	0.0045	0.11
Axle Polishing (dust collector)	0.51	2.61

D.1.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, is required for this facility and any control devices. Section B – Preventive Maintenance Plan contains the Permittee’s obligation with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements

D.1.3 Particulate Control

In order to comply with Condition D.1.1, the dust collectors shall be in operation at all times, when the shot blast machines (TC1637, TC2436, and TC1651), metal machining operation and axle polishing are in operation.

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

D.1.4 Parametric Monitoring

The Permittee shall record the pressure drop across the dust collector used in conjunction with the metal machining operation, at least once per day when this process is in operation. When for any one reading, the pressure drop across the dust collector is outside the normal range, the Permittee shall take reasonable response. The normal range for this unit is a pressure drop between 1.0 and 8.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above-mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated or replaced at least once every six (6) months.

D.1.5 Semi-Annual Inspections

An inspection shall be performed semi-annually on the dust collectors associated with the shot blast machines (TC1637, TC2436 and TC1651) and the axle polishing operation at all times these units are in operation.

D.1.6 Broken or Failed Bag Detection

In the event that bag failure has been observed:

- (a) For a single compartment baghouses controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit. Section C- Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition.
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emissions unit. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit. Section C- Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition.

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

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

D.1.7 Record Keeping Requirements

- (a) To document the compliance status with Condition D.1.4, the Permittee shall maintain a daily record of the pressure drop across the dust collector controlling the metal machining operation. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of pressure drop reading (e.g., the process did not operate that day).
- (b) To document the compliance status with Condition D.1.5, the Permittee shall maintain records of the results of the inspections required under Condition D.1.5.
- (c) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (e) Natural gas-fired combustion sources with heat input equal to or less than 10 MMBtu per hour, including:
 - (1) One (1) boiler unit, located in the Back Mechanical Room in the Assembly Department, with a heat input rate of 0.9 MMBtu/hr, exhausting to vent HWB-1;

(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.2.1 Particulate Emission Limitations for Sources of Indirect Heating [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4, the particulate emissions from the natural gas fired boiler shall not exceed 0.6 lb/MMBtu heat input.

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

**MINOR SOURCE OPERATING PERMIT
ANNUAL NOTIFICATION**

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

Company Name:	Husqvarna Consumer Outdoor Products
Address:	1555 South Jackson Street
City:	Salem, Indiana 47167
Phone #:	812-883-3575
MSOP #:	M175-32056-00009

I hereby certify that Husqvarna Consumer Outdoor Products is:

I hereby certify that Husqvarna Consumer Outdoor Products is:

- still in operation.
- no longer in operation.
- in compliance with the requirements of MSOP M175-32056-00009.
- not in compliance with the requirements of MSOP M175-32056-00009.

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

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

Noncompliance:

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

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

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

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

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

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

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

DATE/TIME MALFUNCTION STARTED: ____/____/20____ ____ AM / PM
ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: _____

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

TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO2, VOC, OTHER: _____
ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: _____

MEASURES TAKEN TO MINIMIZE EMISSIONS: _____

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:
CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL* SERVICES: _____
CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: _____
CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: _____
INTERIM CONTROL MEASURES: (IF APPLICABLE) _____

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

MALFUNCTION RECORDED BY: _____ DATE: _____ TIME: _____

*SEE PAGE 2

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

326 IAC 1-6-1 Applicability of rule

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

326 IAC 1-2-39 "Malfunction" definition

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

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

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

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

Company Name: Husqvarna Consumer Outdoor Products
Address City IN Zip: 1555 South Jackson Street, Salem, Indiana 47167
Permit Number: 175-33330-00009
Reviewer: Deena Patton

*Emissions were recalculated in this permit based upon emission factors in AP-42.

Uncontrolled Potential to Emit (tons/yr)											
Process	PM	PM10	PM2.5	SO ₂	NOx	VOC	CO	GHG as CO ₂ e	Total HAPs	Worst Single HAP	
Shotblaster (TC1637)	10.53	10.53	10.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Shotblaster (TC2436)	10.53	10.53	10.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Shotblaster (TC1651)	28.15	28.15	28.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Metal Machining	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Axle polishing	0.10	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Natural Gas	0.47	1.88	1.88	0.15	24.73	1.36	20.78	29,861.26	0.47	0.45	Hexane
Storage Tanks	0.00	0.00	0.00	0.00	0.00	Negligible	0.00	0.00	Negligible	Negligible	
Welding/Cutting	0.09	0.09	0.09	0.00	0.00	0.00	0.00	0.00	4.51E-03	4.51E-03	Manganese
Total	49.86	51.27	51.27	0.15	24.73	1.36	20.78	29,861.26	0.47	0.45	Hexane

Potential to Emit (tons/yr)											
Process	PM	PM10	PM2.5	SO ₂	NOx	VOC	CO	GHG as CO ₂ e	Total HAPs	Worst Single HAP	
Shotblaster (TC1637)	10.44	10.53	10.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Shotblaster (TC2436)	10.44	10.53	10.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Shotblaster (TC1651)	20.18	28.15	28.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Metal Machining	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Axle polishing	0.10	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Natural Gas	0.47	1.88	1.88	0.15	24.73	1.36	20.78	29,861.26	0.47	0.45	Hexane
Storage Tanks	0.00	0.00	0.00	0.00	0.00	Negligible	0.00	0.00	Negligible	Negligible	
Welding/Cutting	0.09	0.09	0.09	0.00	0.00	0.00	0.00	0.00	4.51E-03	4.49E-03	Manganese
Total	41.72	51.27	51.27	0.15	24.73	1.36	20.78	29,861.26	0.47	0.45	Hexane

Controlled Potential to Emit (tons/yr)											
Process	PM	PM10	PM2.5	SO ₂	NOx	VOC	CO	GHG as CO ₂ e	Total HAPs	Worst Single HAP	
Shotblaster (TC1637)	0.11	0.11	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Shotblaster (TC2436)	0.11	0.11	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Shotblaster (TC1651)	0.28	0.28	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Metal Machining	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Axle polishing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Natural Gas	0.47	1.88	1.88	0.15	24.73	1.36	20.78	29,861.26	0.47	0.45	Hexane
Storage Tanks	0.00	0.00	0.00	0.00	0.00	Negligible	0.00	0.00	Negligible	Negligible	--
Welding/Cutting	0.09	0.09	0.09	0.00	0.00	0.00	0.00	0.00	4.51E-03	4.51E-03	Manganese
Total	1.06	2.47	2.47	0.15	24.73	1.36	20.78	29,861.26	0.47	0.45	Hexane

**Appendix A: Emission Calculations
Shotblasting**

**Company Name: Husqvarna Consumer Outdoor Products
Address City IN Zip: 1555 South Jackson Street, Salem, Indiana 47167
Permit Number: 175-33330-00009
Reviewer: Deena Patton**

Unit ID	Process Weight Rate (ton/hr)	PM/PM10/PM2.5 Emission Factor (lb/ton)*	Uncontrolled PM/PM10/PM2.5 (lb/hr)	Uncontrolled PM/PM10/PM2.5 (ton/yr)	Control Efficiency (%)	Controlled PM/PM10/PM2.5 (lb/hr)	Controlled PM/PM10/PM2.5 (ton/yr)
Shotblaster (TC1637)	0.445	5.40E+00	2.40	10.53	99%	0.02	0.11
Shotblaster (TC2436)	0.445	5.40E+00	2.40	10.53	99%	0.02	0.11
Shotblaster (TC1651)	1.19	5.40E+00	6.43	28.15	99%	0.06	0.28
Metal Machining (tool room)	0.0045	4.50E-02	0.00	0.00	99%	0.00	0.00
Axle polishing	0.51	4.50E-02	0.02	0.10	99%	0.00	0.00
Total =			11.26	49.30		0.11	0.49

*Emission Factors are from FIRE Version 5.0 Source Classification Codes and Emission Factor Listings for Criteria Air Pollutants (August 1995) with a 10% emission increase

Methodology

Uncontrolled PM/PM10/PM2.5 (lb/hr) = Process Weight Rate (ton/hr) * PM/PM10/PM2.5 Emission Factor (lb/ton)
 Uncontrolled PM/PM10/PM2.5 (ton/yr) = Uncontrolled PM/PM10/PM2.5 (lb/hr) * 8760 hrs / 2000 lbs
 Controlled PM/PM10/PM2.5 (lb/hr) = Uncontrolled PM/PM10/PM2.5 (lb/hr) * (1- Control Efficiency (%))
 Controlled PM/PM10/PM2.5 (ton/yr) = Controlled PM/PM10/PM2.5 (lb/hr) * 8760 hrs / 2000 lbs

326 IAC 6-3-2 Potential to Emit

	Process Weight Rate (ton/hr)	Rate of Emission (lb/hr)	Rate of Emission (ton/yr)
Shotblaster (TC1637)	0.445	2.38	10.44
Shotblaster (TC2436)	0.445	2.38	10.44
Shotblaster (TC1651)	1.19	4.61	20.18
Metal Machining (tool room)	0.0045	0.11	0.48
Axle polishing	0.51	2.61	11.44
Total		12.09	52.97

For process weight rates up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E=4.10P^{0.67}$$

Where:
 E= Rate of Emission in pounds per hour
 P= Process weight rate in tons per hour

Appendix A: Emissions Calculations

Natural Gas Combustion Only

MM BTU/HR <100

Company Name: Husqvarna Consumer Outdoor Products

Address City IN Zip: 1555 South Jackson Street, Salem, Indiana 47167

Permit Number: 175-33330-00009

Reviewer: Deena Patton

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

56.5

494.7

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
	1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.5	1.88	1.88	0.1	24.7	1.4	20.8

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

PM2.5 emission factor is filterable and condensable PM2.5 combined.

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

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

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

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03

(SUPPLEMENT D 3/98)

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

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
HAPs and Greenhouse Gas Emissions
Company Name: Husqvarna Consumer Outdoor Products
Address City IN Zip: 1555 South Jackson Street, Salem, Indiana 47167
Permit Number: 175-33330-00009
Reviewer: Deena Patton

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	5.19E-04	2.97E-04	1.86E-02	4.45E-01	8.41E-04

HAPs - Metals					
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03
Potential Emission in tons/yr	1.24E-04	2.72E-04	3.46E-04	9.40E-05	5.19E-04

Methodology is the same as page 4.
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			
Emission Factor in lb/MMcf	CO2 120,000	CH4 2.3	N2O 2.2
Potential Emission in tons/yr	29,681	0.569	0.544
Summed Potential Emissions in tons/yr	29,681.75		
CO2e Total in tons/yr	29,861.26		

Methodology
The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox 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).

**Appendix A: Emissions Calculations
Welding and Thermal Cutting**

**Company Name: Husqvarna Consumer Outdoor Products
Address City IN Zip: 1555 South Jackson Street, Salem, Indiana 47167
Permit Number: 175-33330-00009
Reviewer: Deena Patton**

PROCESS	Number of Stations	Max. electrode consumption per station (lbs/hr)		EMISSION FACTORS* (lb pollutant/lb electrode)				EMISSIONS (lbs/hr)				HAPS (lbs/hr)
				PM = PM10/PM2.5	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr	
WELDING												
MIG (4252 electrode)	1	1.025		0.0055	0.0005			5.64E-03	5.13E-04	0.00E+00	0.00E+00	5.13E-04
MIG (4195 electrode)	1	1.025		0.0055	0.0005			5.64E-03	5.13E-04	0.00E+00	0.00E+00	5.13E-04
FLAME CUTTING	Number of Stations	Max. Metal Thickness Cut (in.)	Max. Metal Cutting Rate (in./minute)	EMISSION FACTORS (lb pollutant/1,000 inches cut, 1" thick)**				EMISSIONS (lbs/hr)				HAPS (lbs/hr)
				PM = PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr	
Oxyacetylene	1	0.5	2	0.1622	0.0005	0.0001	0.0003	9.73E-03	4.87E-06	9.73E-10	1.46E-13	4.87E-06
Plasma**	1	1	2	0.0039				4.68E-04				0.000
EMISSION TOTALS												
Potential Emissions lbs/hr								0.02				1.03E-03
Potential Emissions lbs/day								0.52				2.47E-02
Potential Emissions tons/year								0.09				4.51E-03

METHODOLOGY

*Emission Factors are default values for carbon steel unless a specific electrode type is noted in the Process column.

**Emission Factor for plasma cutting from American Welding Society (AWS). Trials reported for wet cutting of 8 mm thick mild steel with 3.5 m/min cutting speed (at 0.2 g/min emitted). Therefore, the emission factor for plasma cutting is for 8 mm thick rather than 1 inch, and the maximum metal thickness is not used in calculating the emissions.

Using AWS average values: (0.25 g/min)/(3.6 m/min) x (0.0022 lb/g)/(39.37 in./m) x (1,000 in.) = 0.0039 lb/1,000 in. cut, 8 mm thick

Plasma cutting emissions, lb/hr: (# of stations)(max. cutting rate, in./min.)(60 min./hr.)(emission factor, lb. pollutant/1,000 in. cut, 8 mm thick)

Cutting emissions, lb/hr: (# of stations)(max. metal thickness, in.)(max. cutting rate, in./min.)(60 min./hr.)(emission factor, lb. pollutant/1,000 in. cut, 1" thick)

Welding emissions, lb/hr: (# of stations)(max. lbs of electrode used/hr/station)(emission factor, lb. pollutant/lb. of electrode used)

Emissions, lbs/day = emissions, lbs/hr x 24 hrs/day

Emissions, tons/yr = emissions, lb/hr x 8,760 hrs/year x 1 ton/2,000 lbs.



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

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

TO: Bruce Peters
Husqvarna Consumer Outdoor Products
1555 South Jackson Street
Salem, IN 47167

DATE: July 31, 2013

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

SUBJECT: Final Decision
Administrative Amendment to a Minor Source Operating Permit (MSOP)
175-33330-00009

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:
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 6/13/2013

Mail Code 61-53

IDEM Staff	VHAUN 7/31/2013 Husqvarna Consumer Outdoor Products 175-33330-00009 FINAL		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	Type of Mail: CERTIFICATE OF MAILING ONLY	

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		Bruce Peters Husqvarna Consumer Outdoor Products 1555 S Jackson St Salem IN 47167 (Source CAATS) Confirmed Delivery										
2		Rodney Mills & Marla Davis 124 Bruce Street Salem IN 47167 (Affected Party)										
3		Washington County Health Department 806 Martinsburg Road, Ste 100 Salem IN 47167 (Health Department)										
4		Washington County Commissioners 99 Public Square Salem IN 47167 (Local Official)										
5		Salem City Council and Mayors Office 38 Public Square Salem IN 47167 (Local Official)										
6		Charles & Martha Smedley 301 E Westminster Dr Salem IN 47167 (Affected Party)										
7		Ms. Janet Pepmeier 141 Eastern Hills Blvd Salem IN 47167 (Affected Party)										
8		Jack & Sherrian Rowland 1475 S Jackson St Salem IN 47167 (Affected Party)										
9		Franklin & Mary Nicholson 1491 S Jackson St Salem IN 47167 (Affected Party)										
10		Harold & Wynema Callahan 1497 S Jackson St Salem IN 47167 (Affected Party)										
11		Irwin & Maxine Cook 1391 S Jackson St Salem IN 47167 (Affected Party)										
12		George & Marjorie Hedrick 1405 S Jackson St Salem IN 47167 (Affected Party)										
13		Mr. Joseph Lawrence c/o Liddie Chevrolet P.O. Box 241 Salem IN 47167 (Affected Party)										
14		Ms. Sandy Hobbs 990 S Orchard Rd Salem IN 47167 (Affected Party)										
15		Larry & Phyllis Hobbs 3965 W Mount Zion Rd Salem IN 47167 (Affected Party)										

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Mail Code 61-53

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Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		Hubert Taylor 1300 N Shelby St Salem IN 47167 (Affected Party)										
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
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