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

TO: Interested Parties / Applicant

DATE: November 22, 2013

RE: Carter Fuel Systems, LCC / 017-33806-00029

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

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

Ryan Slavens
Carter Fuel Systems, L.L.C.
101 Industrial Blvd.
Logansport, Indiana, 46947

November 22, 2013

Re: 017-33806-00029
Second Administrative Amendment to
M017-29348-00029

Dear Mr. Slavens,

Federal Mogul Corporation, Inc. was issued a Minor Source Operating Permit (MSOP) Renewal No. M017-29348-00029 on November 17, 2010, for a stationary automotive fuel pump manufacturing operation located at 101 Industrial Blvd., Logansport, Indiana 46947. On October 22, 2013, the Office of Air Quality (OAQ) received an application from the source requesting changes to the permit as described below. Pursuant to the provisions of 326 IAC 2-6.1-6, the permit is hereby revised as follows with the deleted language as ~~strikeouts~~ and new language **bolded**.

1. The source requested a change in the ownership and company name to Carter Fuel Systems, L.L.C. Pursuant to 326 IAC 2-6.1-6(d)(3), this change to the permit is considered an administrative amendment because the permit is amended to indicate a change in ownership or operational control of the source.

   The company name has been revised throughout the permit as follows:

   Company Name: ~~Federal Mogul Corporation, Inc.~~
   Carter Fuel Systems, L.L.C.

2. The source requested the permit be revised to correct the telephone number listed in the permit. 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 name, address or telephone number of any person identified in the permit.

   The general source phone number has been revised throughout the permit as follows:

   General Source Phone Number: ~~(574) 722-5297~~
   (574) 722-6141

3. The source requested that the permit be revised to update the description for several 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 applicable requirement. The permit is revised as follows:

A.2 Emission Units and Pollution Control Equipment Summary

***

(c) Technical Center Research and Development, identified as EU-05, installed in 1996, consisting of the following equipment:

~~(1) Four (4) spent fuel outdoor storage tanks, identified as T-1 through T-4, each containing unleaded gasoline, #2 diesel fuel, and GP-1140 fuel, respectively,~~

~~each with a maximum tank capacity of 2000, 2000, 2000, and 1000 gallons, respectively, uncontrolled and exhausting to the outside atmosphere;~~

(1) One (1) partitioned 6,000-gallon tank with 2,000-gallon compartments, identified as T-1 through T-3, containing unleaded gasoline, waste fuel, and MS-4957 calibration fluid, respectively, where the waste fuel is a mixture of spent fuel including unleaded gasoline, MS-4957 calibration fluid, and #2 diesel fuel;

(2) One (1) 1,000-gallon tank containing #2 diesel fuel;

(~~2~~**3**) Three (3) fuel stands for testing pumps, with a maximum capacity of testing 4000 pumps per year, combined, exhausting through stacks ST-1, ST-2, and ST-3, respectively;

(~~3~~**4**) Flow testers for testing pump flows for sink, rotary vane #1 and rotary vane #2, with a maximum capacity of testing 119,600 pumps per year, combined, exhausting through stacks ST-1, ST-2, and ST-3, respectively;

(**45**) Four (4) Stoddard Solvent drums for temporary storage of testing media for the flow test sink, rotary vane #1, and rotary vane #2 lines, with a maximum capacity of fifty-five (55) gallons, each;

***

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

***

(c) Technical Center Research and Development, identified as EU-05, installed in 1996, consisting of the following equipment:

~~(1) Four (4) spent fuel outdoor storage tanks, identified as T-1 through T-4, each containing unleaded gasoline, #2 diesel fuel, and GP-1140 fuel, respectively, each with a maximum tank capacity of 2000, 2000, 2000, and 1000 gallons, respectively, uncontrolled and exhausting to the outside atmosphere;~~

(1) One (1) partitioned 6,000-gallon tank with 2,000-gallon compartments, identified as T-1 through T-3, containing unleaded gasoline, waste fuel, and MS-4957 calibration fluid, respectively, where the waste fuel is a mixture of spent fuel including unleaded gasoline, MS-4957 calibration fluid, and #2 diesel fuel;

(2) One (1) 1,000-gallon tank containing #2 diesel fuel;

(~~2~~**3**) Three (3) fuel stands for testing pumps, with a maximum capacity of testing 4000 pumps per year, combined, exhausting through stacks ST-1, ST-2, and ST-3, respectively;

(~~3~~**4**) Flow testers for testing pump flows for sink, rotary vane #1 and rotary vane #2, with a maximum capacity of testing 119,600 pumps per year, combined, exhausting through stacks ST-1, ST-2, and ST-3, respectively;

(**45**) Four (4) Stoddard Solvent drums for temporary storage of testing media for the flow test sink, rotary vane #1, and rotary vane #2 lines, with a maximum capacity of fifty-five (55) gallons, each;

***

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 rules, to eliminate redundancy within the permit, and to provide clarification regarding the requirements of these conditions. The permit has been revised as follows with deleted language as ~~strikeouts~~ and new language **bolded**:

1. IDEM clarified the following condition to indicate that the analog instrument must be capable of measuring the parameters outside the normal range.

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

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

***

2. The word "status" has been added to Section D - Record Keeping Requirements. The Permittee has the obligation to document the compliance status. The wording has been revised to properly reflect this.

Record Keeping Requirements ~~[326 IAC 2-5.1-3(e)(2)]~~ [326 IAC 2-6.1-5(a)(2)]

D.1.4 Record Keeping Requirements

(a) To document **the** compliance **status** with Conditions D.1.1 and D.1.2, the Permittee shall maintain records in accordance with (1) through (3) below. Records maintained for (1) through (3) shall be taken as stated below and shall be complete and sufficient to establish compliance with the VOC usage limits established in Conditions D.1.1 and D.1.2.

***

3. Effective March 1, 2013, the 326 IAC 8-3 (Organic Solvent Degreasing Operations) rule requirements have been updated. The permit has been revised as follows:

D.2.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner ~~Operations~~ **degreaser control equipment and operating requirements**)~~,~~ for ~~maintenance~~ cold cleaner degreasers constructed after January 1, 1980, identified as DEGRDIE, DEGRTOOL, DEGRPLAT and DEGRMOLD, the Permittee shall **comply with the following**:

(a) The owner or operator of a cold cleaner degreaser shall ensure the following control equipment and operating requirements are met:

(~~a~~**1**) Equip the ~~cleaner~~ **degreaser** with a cover.

(~~b~~**2**) Equip the ~~cleaner~~ **degreaser** with a ~~facility~~ **device** for draining cleaned parts.

(~~c~~**3**) Close the degreaser cover whenever parts are not being handled in the ~~cleaner~~ **degreaser**.

(~~d~~**4**) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases.

(~~e~~**5**) Provide a permanent, conspicuous label ~~summarizing~~ **that lists** the operating requirements **in subdivisions (3), (4), (6), and (7)**.

(f6) Store waste solvent only in ~~covered~~ **closed** containers. ~~and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.~~

(7) Prohibit the disposal or transfer of waste solvent in such a manner that could allow greater than twenty percent (20%) of the waste solvent (by weight) to evaporate into the atmosphere.

(b) The owner or operator of a cold cleaner degreaser subject to this subsection shall ensure the following additional control equipment and operating requirements are met:

(1) Equip the degreaser with one (1) of the following control devices if the solvent is heated to a temperature of greater than forty-eight and nine-tenths (48.9) degrees Celsius (one hundred twenty (120) degrees Fahrenheit):

(A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.

(B) A water cover when solvent used is insoluble in, and heavier than, water.

(C) A refrigerated chiller.

(D) Carbon adsorption.

(E) An alternative system of demonstrated equivalent or better control as those outlined in clauses (A) through (D) that is approved by the department. An alternative system shall be submitted to the U.S. EPA as a SIP revision.

(2) Ensure the degreaser cover is designed so that it can be easily operated with one (1) hand if the solvent is agitated or heated.

(3) If used, solvent spray:

(A) must be a solid, fluid stream; and

(B) shall be applied at a pressure that does not cause excessive splashing.

~~D.2.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-5]~~

~~(a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), for cold cleaner degreaser operations without remote solvent reservoirs constructed after July 1, 1990, identified as DEGRDIE and DEGRTOOL, the Permittee shall ensure that the following control equipment requirements are met:~~

~~(1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:~~

~~(A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));~~

~~(B) The solvent is agitated; or~~

~~(C) The solvent is heated.~~

~~(2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury, or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.~~

~~(3) Provide a permanent, conspicuous label, which lists the operating requirements outlined in subsection (b).~~

~~(4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure, which does not cause excessive splashing.~~

~~(5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120OF)):~~

~~(A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.~~

~~(B) A water cover when solvent is used is insoluble in, and heavier than, water.~~

~~(C) Other systems of demonstrated equivalent control such as a refrigerated chiller of carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.~~

~~(b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility construction of which commenced after July 1, 1990, shall ensure that the following operating requirements are met:~~

~~(1) Close the cover whenever articles are not being handled in the degreaser.~~

~~(2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.~~

~~(3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.~~

D.2.2 Material Requirements for Cold Cleaner Degreasers [326 IAC 8-3-8]

Pursuant to 326 IAC 8-3-8 (Material Requirements for Cold Cleaner Degreasers), on and after January 1, 2015, the Permittee shall not operate a cold cleaning degreaser with a

solvent vapor pressure that exceeds one (1) millimeter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

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

D.2.3 Record Keeping Requirements [326 IAC 8-3-8]

(a) To document the compliance status with Condition D.2.2, on and after January 1, 2015, the Permittee shall maintain the following records for each purchase of solvent used in the cold cleaner degreasing operations. These records shall be retained on-site or accessible electronically from the site for the most recent three (3) year period and shall be reasonably accessible for an additional two (2) year period.

(1) The name and address of the solvent supplier.

(2) The date of purchase (or invoice/bill date of contract servicer indicating service date).

(3) The type of solvent purchased.

(4) The total volume of the solvent purchased.

(5) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

(b) Section C - General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.

***

4. The emission unit descriptions in Section D.3 of the permit have been revised to match the descriptions in Section A.2 as follows:

SECTION D.3 EMISSION UNIT OPERATION CONDITIONS

(~~o~~**p**) One (1) small shotblast cabinet located in satellite tool room**, having a maximum process weight rate of eighty (80) pounds per hour,** serviced by one (1) fifty-five (55) cubic feet per minute (cfm) dust collector~~, using the dust collector as a~~ **for particulate** control, and exhausting inside the building; ~~and~~

(~~p~~**q**) One (1) small shotblast booth located in the technical center research and development**, having a maximum process weight rate of eighty (80) pounds per hour,** serviced by one (1) fifty-five (55) cubic feet per minute (cfm) dust collector~~, using the dust collector as a~~ **for particulate** control, and exhausting inside the building.

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 Jenny Liljegren of my staff at 317-233-0870 or 1-800-451-6027, and ask for extension 3-0870.

Sincerely,

Nathan C. Bell, Section Chief
Permits Branch
Office of Air Quality

Attachments: Updated Permit

NB/JL

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

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

Minor Source Operating Permit Renewal
OFFICE OF AIR QUALITY

Carter Fuel Systems, L.L.C.
101 Industrial Blvd.
Logansport, Indiana 46947

(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.: M017-29348-00029	
Original Signed by: Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: November 17, 2010 Expiration Date: November 17, 2020

First Administrative Amendment No. 017-32310-00029 issued September 27, 2012

Second Administrative Amendment No. 017-33806-00029	
Issued by: Nathan C. Bell, Section Chief Permits Branch Office of Air Quality	Issuance Date: November 22, 2013 Expiration Date: November 17, 2020

TABLE OF CONTENTS

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 automotive fuel pump manufacturing operation.

Source Address:	101 Industrial Blvd., Logansport, Indiana 46947
General Source Phone Number:	(574) 722-6141
SIC Code:	3647, 3714, and 8713
County Location:	Cass
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:

(a) Impregnation Line, identified as EU-02, installed in 1996, consisting of the following equipment:

(1) Four (4) dip coating tanks, identified as TANK 1 through TANK 4, with a maximum coating rate of two hundred eighty-eight (288) pieces of metal automotive fuel pump parts per hour, each. TANK 1 and TANK 3 exhaust to one (1) stack, ID #S-2, and TANK 2 and TANK 4 exhaust to one (1) stack, ID #GV;

Note: TANK 1, TANK 2, and TANK 3 contain aqueous based solutions, and TANK 4 contains only water for the final rinse.

(b) Electric Fuel Pump Test Line, identified as EU-04, installed in 1997, consisting of the following equipment:

(1) One (1) Cummins electric fuel pump tester, identified as CUMEFP, with a maximum test rate of eight-eight and seventy-five hundredths (88.75) pumps per hour, uncontrolled and exhausting through one (1) stack ID #S-22;

(c) Technical Center Research and Development, identified as EU-05, installed in 1996, consisting of the following equipment:

(1) One (1) partitioned 6,000-gallon tank with 2,000-gallon compartments, identified as T-1 through T-3, containing unleaded gasoline, waste fuel, and MS-4957 calibration fluid, respectively, where the waste fuel is a mixture of spent fuel including unleaded gasoline, MS-4957 calibration fluid, and #2 diesel fuel;

(2) One (1) 1,000-gallon tank containing #2 diesel fuel;

(3) Three (3) fuel stands for testing pumps, with a maximum capacity of testing 4000 pumps per year, combined, exhausting through stacks ST-1, ST-2, and ST-3, respectively;

(4) Flow testers for testing pump flows for sink, rotary vane #1 and rotary vane #2, with a maximum capacity of testing 119,600 pumps per year, combined, exhausting through stacks ST-1, ST-2, and ST-3, respectively;

(5) Four (4) Stoddard Solvent drums for temporary storage of testing media for the flow test sink, rotary vane #1, and rotary vane #2 lines, with a maximum capacity of fifty-five (55) gallons, each;

(d) Two (2) pump test stands, consisting of one (1) Roller Vane Diesel Tester designated as ROTVANTST and one (1) Oil Pump Audit Stand designated as OILAUDIT, installed in 2000, uncontrolled and exhausting inside the building;

(e) One (1) roller vane oil pump test stand identified as ROLVANOILTST, installed in 2000, uncontrolled and exhausting inside the building;

(f) Nine (9) production line fuel pump testing units, identified as GEROTST, CHRYTST1, CHRYTST2, TURBTST, MARINTST, ROTVANTST, SOLENTST, DAUTTST and GERMIDTST, respectively, with total maximum VOC emission rate equal to three and two hundredths (3.02) tons per year, uncontrolled and exhausting inside the building;

(g) One (1) electrical and mechanical fuel pumps testing unit, identified as DURABTST, with a maximum VOC emission rate equal to eighteen hundred-thousandths (0.00018) tons per year, uncontrolled and exhausting inside the building;

(h) One (1) pump flow static pressure testing unit, identified as GERAUDTST, with a maximum VOC emission rate equal to twelve hundred-thousandths (0.00012) tons per year, uncontrolled and exhausting inside the building;

(i) Two (2) cold cleaners with self closing lids, identified as DEGRDIE and DEGRTOOL, using a maximum of ninety-eight (98) gallons per year, and fifty-six (56) gallons per year of solvent, respectively, uncontrolled and exhausting inside the building ;

(j) Two (2) cold cleaners with drum reservoirs, identified as DEGRPLAT and DEGRMOLD, using a maximum of one hundred thirty-three (133) gallons per year and fifty-six (56) gallons per year of solvent, respectively, uncontrolled and exhausting inside the building;

(k) One (1) industrial parts washer utilizing a soap-based, non-VOC/non-HAP containing cleaner, installed in 2000, uncontrolled and exhausting inside the building;

(l) Twenty (20) plastic injection molding lines with no solvent in the resin, collectively identified as INJMOLD, with a maximum throughput of four hundred (400) pounds of plastic parts per hour, uncontrolled and exhausting inside the building;

(m) Machining of aluminum where an aqueous cutting coolant continuously floods the machining interface.

(n) Plastic machining operations, for the manufacture of fixtures needed in the production of the automotive fuel pumps, installed in 1996, uncontrolled and exhausting inside the building. The plastic machined is Delrin, and contains negligible amounts of HAPs and VOCs;

(o) Ten (10) natural gas fired forced air heaters, identified as HTR1 through HTR10, with a maximum heat input capacity of three hundredths (0.03), twenty hundredths (0.20), fifteen hundredths (0.15), seven hundredths (0.07), thirteen hundredths (0.13), seven hundredths (0.07), nine hundredths (0.09), fourteen (0.14), twelve hundredths (0.12), and eleven hundredths (0.11) mmBtu per hour, respectively, uncontrolled and exhausting inside the building;

(p) One (1) small shotblast cabinet located in the satellite tool room, having a maximum process weight rate of eighty (80) pounds per hour, serviced by one (1) fifty-five (55) cubic feet per minute (cfm) dust collector for particulate control, and exhausting inside the building; and

(q) One (1) small shotblast booth located in the technical center research and development, having a maximum process weight rate of eighty (80) pounds per hour, serviced by one (1) fifty-five (55) cubic feet per minute (cfm) dust collector for particulate control, and exhausting inside the building.

(r) One (1) Samsco wastewater evaporator, identified as WWEVAP, with a maximum oil and grease content of less than or equal to one percent (1%) by volume, uncontrolled and exhausting inside the building;

(s) One (1) production line fuel pump testing unit, identified as BFMPTST Robotic Cell, approved for construction in 2012, capable of testing automotive fuel pumps at (2) test cells, identified as Test Cell #1 and Test Cell #2, capable of running a maximum of 1,401,600 tests per year, with no control, and exhausting indoors;

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, M017-29348-00029, 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 M017-29348-00029 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 one hundred (100) pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed five hundred fifty-one thousandths (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 non-overlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

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

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

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

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

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

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

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

(a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

(b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

(1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or

(2) If there is a change in the following:

(A) Asbestos removal or demolitions start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

(c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).

(d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

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

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

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

(f) Demolition and Renovation
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).

(g) Indiana Licensed Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

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

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

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

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

no later than thirty-five (35) days prior to the intended test date.

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date.

(c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

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

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

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

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

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

Corrective Actions and Response Steps

C.12 Response to Excursions or Exceedances

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

(a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.

(b) The response shall include minimizing the period of any startup, shutdown, or malfunction. The response may include, but is not limited to, the following:

(1) initial inspection and evaluation;

(2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system); or

(3) any necessary follow-up actions to return operation to normal or usual manner of operation.

(c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:

(1) monitoring results;

(2) review of operation and maintenance procedures and records; and/or

(3) inspection of the control device, associated capture system, and the process.

(d) Failure to take reasonable response steps shall be considered a deviation from the permit.

(e) The Permittee shall record the reasonable response steps taken.

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

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.

(b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline

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

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

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

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

(a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.

(b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.

(c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).

(d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

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

(a) Records of all required monitoring data, reports, and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

(b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

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

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

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

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

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

(c) 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

Emission Unit Description [326 IAC 2-6.1-5(a)(1)]: Surface Coating and Pump Testing Operations

(a) Impregnation Line, identified as EU-02, installed in 1996, consisting of the following equipment:

(1) Four (4) dip coating tanks, identified as TANK 1 through TANK 4, with a maximum coating rate of two hundred eighty-eight (288) pieces of metal automotive fuel pump parts per hour, each. TANK 1 and TANK 3 exhaust to one (1) stack, ID #S-2, and TANK 2 and TANK 4 exhaust to one (1) stack, ID #GV;

Note: TANK 1, TANK 2, and TANK 3 contain aqueous based solutions, and TANK 4 contains only water for the final rinse.

(b) Electric Fuel Pump Test Line, identified as EU-04, installed in 1997, consisting of the following equipment:

(1) One (1) Cummins electric fuel pump tester, identified as CUMEFP, with a maximum test rate of eight-eight and seventy-five hundredths (88.75) pumps per hour, uncontrolled and exhausting through one (1) stack ID #S-22;

(c) Technical Center Research and Development, identified as EU-05, installed in 1996, consisting of the following equipment:

(1) One (1) partitioned 6,000-gallon tank with 2,000-gallon compartments, identified as T-1 through T-3, containing unleaded gasoline, waste fuel, and MS-4957 calibration fluid, respectively, where the waste fuel is a mixture of spent fuel including unleaded gasoline, MS-4957 calibration fluid, and #2 diesel fuel;

(2) One (1) 1,000-gallon tank containing #2 diesel fuel;

(3) Three (3) fuel stands for testing pumps, with a maximum capacity of testing 4000 pumps per year, combined, exhausting through stacks ST-1, ST-2, and ST-3, respectively;

(4) Flow testers for testing pump flows for sink, rotary vane #1 and rotary vane #2, with a maximum capacity of testing 119,600 pumps per year, combined, exhausting through stacks ST-1, ST-2, and ST-3, respectively;

(5) Four (4) Stoddard Solvent drums for temporary storage of testing media for the flow test sink, rotary vane #1, and rotary vane #2 lines, with a maximum capacity of fifty-five (55) gallons, each;

(The information describing the process contained in this facility 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 VOC Limit [326 IAC 8-2-9]

The Impregnation Line (EU-02), consisting of four (4) dip coating tanks, identified as TANK 1 through TANK 4, combined, shall use less than fifteen (15) pounds per day of VOC, including coatings, dilution solvents, and cleaning solvents. Compliance with this limit makes 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations) not applicable.

D.1.2 VOC Limit [326 IAC 8-1-6]

The Technical Center Research and Development, identified as EU-05, shall use less than twenty-five (25) tons of VOC per twelve (12) consecutive month period, with compliance determined at the end of each month, including coatings, dilution solvents, and cleaning solvents. Compliance with this limit renders the provisions of 326 IAC 8-1-6 (New Facilities; VOC Reduction Requirements) not applicable.

Compliance Determination Requirements

D.1.3 Volatile Organic Compounds (VOC)[326 IAC 8-1-2] [326 IAC 8-1-4]

Compliance with the VOC usage limit contained in Conditions D.1.1 and D.1.2, shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer the copies of the “as supplied” and “as applied” VOC data sheets. IDEM, OAQ**,** reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

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

D.1.4 Record Keeping Requirements

(a) To document the compliance status with Conditions D.1.1 and D.1.2, the Permittee shall maintain records in accordance with (1) through (3) below. Records maintained for (1) through (3) shall be taken as stated below and shall be complete and sufficient to establish compliance with the VOC usage limits established in Conditions D.1.1 and D.1.2.

(1) The VOC content of each coating material and solvent used less water.

(2) The amount of each coating material and solvent used on a daily and monthly basis.

(A) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.

(B) Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents;

(3) The total VOC usage for each day and month.

(b) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

D.1.5 Reporting Requirements

A quarterly summary of the information to document the compliance status with conditions D.1.1 and D.1.2 shall be submitted using the reporting forms located at the end of this permit, or their equivalent, not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting Requirements contains the Permittee's obligation with regard to the reporting required by this condition.

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emission Unit Description [326 IAC 2-6.1-5(a)(1)]: Degreasing Operations

(i) Two (2) cold cleaners with self closing lids, identified as DEGRDIE and DEGRTOOL, using a maximum of ninety-eight (98) gallons per year, and fifty-six (56) gallons per year of solvent, respectively, uncontrolled and exhausting inside the building ;

(j) Two (2) cold cleaners with drum reservoirs, identified as DEGRPLAT and DEGRMOLD, using a maximum of one hundred thirty-three (133) gallons per year and fifty-six (56) gallons per year of solvent, respectively, uncontrolled and exhausting inside the building;

(The information describing the process contained in this facility 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 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner degreaser control equipment and operating requirements) for cold cleaner degreasers constructed after January 1, 1980, identified as DEGRDIE, DEGRTOOL, DEGRPLAT and DEGRMOLD, the Permittee shall comply with the following:

(a) The owner or operator of a cold cleaner degreaser shall ensure the following control equipment and operating requirements are met:

(1) Equip the degreaser with a cover.

(2) Equip the degreaser with a device for draining cleaned parts.

(3) Close the degreaser cover whenever parts are not being handled in the degreaser.

(4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases.

(5) Provide a permanent, conspicuous label that lists the operating requirements in subdivisions (3), (4), (6), and (7).

(6) Store waste solvent only in closed containers.

(7) Prohibit the disposal or transfer of waste solvent in such a manner that could allow greater than twenty percent (20%) of the waste solvent (by weight) to evaporate into the atmosphere.

(b) The owner or operator of a cold cleaner degreaser subject to this subsection shall ensure the following additional control equipment and operating requirements are met:

(1) Equip the degreaser with one (1) of the following control devices if the solvent is heated to a temperature of greater than forty-eight and nine-tenths (48.9) degrees Celsius (one hundred twenty (120) degrees Fahrenheit):

(A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.

(B) A water cover when solvent used is insoluble in, and heavier than, water.

(C) A refrigerated chiller.

(D) Carbon adsorption.

(E) An alternative system of demonstrated equivalent or better control as those outlined in clauses (A) through (D) that is approved by the department. An alternative system shall be submitted to the U.S. EPA as a SIP revision.

(2) Ensure the degreaser cover is designed so that it can be easily operated with one (1) hand if the solvent is agitated or heated.

(3) If used, solvent spray:

(A) must be a solid, fluid stream; and

(B) shall be applied at a pressure that does not cause excessive splashing.

D.2.2 Material Requirements for Cold Cleaner Degreasers [326 IAC 8-3-8]

Pursuant to 326 IAC 8-3-8 (Material Requirements for Cold Cleaner Degreasers), on and after January 1, 2015, the Permittee shall not operate a cold cleaning degreaser with a solvent vapor pressure that exceeds one (1) millimeter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

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

D.2.3 Record Keeping Requirements [326 IAC 8-3-8]

(a) To document the compliance status with Condition D.2.2, on and after January 1, 2015, the Permittee shall maintain the following records for each purchase of solvent used in the cold cleaner degreasing operations. These records shall be retained on-site or accessible electronically from the site for the most recent three (3) year period and shall be reasonably accessible for an additional two (2) year period.

(1) The name and address of the solvent supplier.

(2) The date of purchase (or invoice/bill date of contract servicer indicating service date).

(3) The type of solvent purchased.

(4) The total volume of the solvent purchased.

(5) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

(b) Section C - General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.

SECTION D.3 EMISSION UNIT OPERATION CONDITIONS

Emission Unit Description [326 IAC 2-6.1-5(a)(1)]: Shotblasting Operations

(p) One (1) small shotblast cabinet located in satellite tool room, having a maximum process weight rate of eighty (80) pounds per hour, serviced by one (1) fifty-five (55) cubic feet per minute (cfm) dust collector for particulate control, and exhausting inside the building;

(q) One (1) small shotblast booth located in the technical center research and development, having a maximum process weight rate of eighty (80) pounds per hour, serviced by one (1) fifty-five (55) cubic feet per minute (cfm) dust collector for particulate control, and exhausting inside the building.

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

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

D.3.1 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e)(2) (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the small blast cabinet located in satellite tool room and the small blast booth located in technical center research and development, each, shall continue to not exceed five hundred fifty-one thousandths (0.551) pound per hour when operating at a process weight rate of eighty (80) pounds per hour, each.

D.3.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan is required for this facility and its control device. 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.3.3 Particulate Control

(a) In order to comply with Condition D.3.1, the dust collectors for particulate control shall be in operation and control emissions from the small blast cabinet located in satellite tool room, and the small blast booth located in technical center research and development, at all times that the corresponding shotblast unit is in operation.

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:	Carter Fuel Systems, L.L.C.
Address:	101 Industrial Blvd.
City:	Logansport, Indiana 46947
Phone #:	(574) 722-6141
MSOP #:	M017-29348-00029

I hereby certify that Carter Fuel Systems, L.L.C. is :
□ still in operation.
□ no longer in operation.

I hereby certify that Carter Fuel Systems, L.L.C. is :
□ in compliance with the requirements of MSOP M017-29348-00029.
□ not in compliance with the requirements of MSOP M017-29348-00029.

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:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

MSOP Quarterly Report

Source Name: Carter Fuel Systems, L.L.C.
Source Address: 101 Industrial Blvd., Logansport, Indiana, 46947
FESOP No.: M017-29348-00029
Facility: Four (4) dip tanks, identified as TANK 1-4
Parameter: **VOC Input/Usage**
Limit: Less than fifteen (15) pounds per day, combined.

Month: _____ **Quarter:** _____ **Year:** _____

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

☐ No deviation occurred in this month.

☐ Deviation/s occurred in this month.
Deviation has been reported on_____

Submitted by: _____
Title/Position: _____
Signature: _____
Date: _____
Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

MSOP Quarterly Report

Source Name: Carter Fuel Systems, L.L.C.
Source Address: 101 Industrial Blvd., Logansport, Indiana, 46947
FESOP No.: M017-29348-00029
Facility: Technical Center Research and Development (EU-05)
Parameter: **VOC Input/Usage**
Limit: Less than twenty-five (25) tons per twelve (12) consecutive month period.

Quarter: _____ **Year**:_____

Month	Column 1 This Month	Column 2 Previous 11 Months	Column 1 + Column 2 12 Month Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on:_____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

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
Emission Summary

Company Name: Carter Fuel Systems, L.L.C.
Address City IN Zip: 101 Industrial Boulevard, Logansport, IN 46947
Adminstrative Amendment: 017-33806-00029
Reviewer: Jenny Liljegren

Uncontrolled Potential Emissions (tons/year)

		Emissions Generating Activity					
Category	Pollutant	Impregnation Line (EU-02)	Electric Fuel Pump Test Line[1] (EU-04)	Technical Center R&D (EU-05)	Natural Gas-Fired Heaters	BFMPTST fuel pump test cell	TOTAL
Criteria Pollutants	PM	0	4.13	4.13	0.01	0	8.27
	PM10	0	4.13	4.13	0.04	0	8.30
	PM2.5	0	4.13	4.13	0.04	0	8.30
	SO2	0	0	0	2.86E-03	0	0.00
	NOx	0	0	0	0.48	0	0.48
	VOC	3.78	7.35	26.50	0.03	0.008	37.66
	CO	0	0	0	0.40	0	0.40
	GHGs as CO2e	0	0	0	575	0	575
Hazardous Air Pollutants	Benzene	0	0	0.84	1.00E-05	0	0.84
	Dichlorobenzene	0	0	0	5.72E-06	0	0.00
	Ethyl Benzene	0	0	0.34	0	0	0.34
	Formaldehyde	0	0	0	3.57E-04	0	0.00
	Glycol Ethers	0.05	0	0	0	0	0.05
	Hexane	0	0	0	8.58E-03	0	0.01
	MTBE	0	0	2.52	0	0	2.52
	Napthalene	0	0	0.02	0	0	0.02
	Toluene	0	0	2.29	1.62E-05	0	2.29
	Xylenes	0	0	2.06	0	0	2.06
	Cadmium	0	0	0	5.24E-06	0	0.00
	Chromium	0	0	0	6.67E-06	0	0.00
	Lead	0	0	0	2.38E-06	0	0.00
	Manganese	0	0	0	1.81E-06	0	0.00
	Nickel	0	0	0	1.00E-05	0	0.00
	Miscellaneous [4]	0	0	0.03	0	0	0.03
	Totals	**0.05**	**0**	**8.09**	**0.01**	**0**	**8.15**
							2.52

Total emissions based on rated capacity at 8,760 hours/year

Controlled and Limited Potential Emissions (tons/year)

		Emissions Generating Activity					
Category	Pollutant	Impregnation Line EU-02	Cummins Fuel Pump Tester[1](a) EU-04	Technical Center R&D[(a)] EU-05	Natural Gas-Fired Heaters	BFMPTST fuel pump test cell	TOTAL
Criteria Pollutants	PM	0.00	0.21	0.21	0.01	0	0.42
	PM10	0.00	0.21	0.21	0.04	0	0.45
	PM2.5	0.00	0.21	0.21	0.04	0	0.45
	SO2	0	0	0	2.86E-03	0	0.00
	NOx	0	0	0	0.48	0	0.48
	VOC	2.74 [2]	7.35	<25 [3]	0.03	0.01	35.12
	CO	0	0	0	0.40	0	0.40
	GHGs as CO2e	0	0	0	575	0	575
Hazardous Air Pollutants	Benzene	0	0	0.84	1.00E-05	0	0.84
	Dichlorobenzene	0	0	0	5.72E-06	0	0.00
	Ethyl Benzene	0	0	0.34	0	0	0.34
	Formaldehyde	0	0	0	3.57E-04	0	0.00
	Glycol Ethers	0.05	0	0	0	0	0.05
	Hexane	0	0	0	8.58E-03	0	0.01
	MTBE	0	0	2.52	0	0	2.52
	Napthalene	0	0	0.02	0	0	0.02
	Toluene	0	0	2.29	1.62E-05	0	2.29
	Xylenes	0	0	2.06	0	0	2.06
	Cadmium	0	0	0	5.24E-06	0	0.00
	Chromium	0	0	0	6.67E-06	0	0.00
	Lead	0	0	0	2.38E-06	0	0.00
	Manganese	0	0	0	1.81E-06	0	0.00
	Nickel	0	0	0	1.00E-05	0	0.00
	Miscellaneous [4]	0	0	0.03	0	0	0.03
	Totals	**0.05**	**0**	**8.09**	**0.01**	**0**	**8.15**
							2.52

Total emissions based on rated capacity at 8,760 hours/year.

Notes

(1) The emissions also include emissions from the production line fuel pump testing units, electrical and mechanical fuel pumps testing unit and pump flow static pressure testing unit. The emissions from these units are based on MSOP no. 017-18763-00029, issued on October 07, 2005.

(a) A control device is required for compliance with 326 IAC 6-3-2, therefore controlled emissions are shown.

(2) In order to render the requirements of 326 IAC 8-2-9 not applicable, the actual VOC input/usage to EU-02 shall be limited to less than 15 pounds per day.

(3) In order to render the requirements of 326 IAC 8-1-6 not applicable, the combined VOC input/usage to EU-05 shall be limited to less than 25 tons per year.

(4) There are negligible emissions from roller vane diesel tester, oil pump audit stand, roller vane oil pump test stand, two (2) cold cleaners with self closing lid, two (2) cold cleaners with drum reservoir, samsco wastewater evaporator (oil & grease content less than 1%), blast cabinet located in satellite tool room and blast booth located in technical R & D center. All degreasing operations have an annual solvent usage less than 145 gallons per 12 months. The blast cabinets are serviced by 55 cfm dust collectors. The industrial parts washer uses a soap based, non-VOC cleaner and plastic injection molding lines do not contain any solvent in resin; therefore, there are no emissions from these units.

Appendix A: Emission Calculations
VOC and Particulate
from Impregnation Line (EU-02)

Company Name: Carter Fuel Systems, L.L.C.
Address City IN Zip: 101 Industrial Boulevard, Logansport, IN 46947
Adminstrative Amendment: 017-33806-00029
Reviewer: Jenny Liljegren

Dip Tanks #1, #3 and #4

Unit ID	Density (Lb/Gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gal/unit)	Maximum (unit/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential (ton/yr)	lb VOC/gal solids	Transfer Efficiency
Dip Tank 1	8.3454	100.00%	98.7%	1.3%	0.0%	0.00%	0.00110	288	0.11	0.11	0.04	0.86	0.16	0.0	NA	100%
Dip Tank 3	8.3454	100.00%	95.0%	5.0%	90.0%	10.00%	0.00640	288	0.04	0.42	0.77	18.46	3.37	0.0	NA	100%
Dip Tank 4	8.3454	100.00%	100.0%	0.0%	100.0%	0.00%	0.01000	288	NA	0.00	0.00	0.00	0.00	0.0	NA	100%
								Total State Potential Emissions (tons/yr)					**3.52**	**0.00**		

Methodology

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)
Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr) *(1 ton/2000 lbs)
Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)

Notes

Total emissions based on rated capacity at 8,760 hours/year.
Based on MSDSs submitted by the source, the following applies:
The materials currently being used in Tanks #1 and #3, each, do not contain any HAPs.
Dip tank #4 contains only water, and therefore contains no VOCs or HAPs.
Constant: the density of water is 8.3454, and the specific gravity is 1.0.
The materials used in Dip Tanks #1, #3, and #4 are applied using dip coating methods, therefore particulate emissions are determined negligible.
NA = not applicable

Dip Tank #2

Material	Maximum Capacity (gal/hr)	VOC * (lbs/gal)	Potential VOC (lbs/hr)	Potential VOC (lbs/yr)	Potential VOC (tons/yr)	Potential PM ** (lbs/hr)
T DET N 9.5 Soap	0.094	0.62	0.0581	508.54	0.25	0.0
Water	12.238	0.00	0.0	0.0	0.0	0.0
Total State Potential Emissions (tons/yr)			0.06	508.54	**0.25**	**0.0**

Methodology

Total emissions based on rated capacity at 8,760 hours/year.
Maximum Capacity (gal/hr)T DET N 9.5 Soap = (3 quarts/shift) * (1 gallon/4 quarts) * (Shift/8 hr) = 0.094 gal/hr
VOC (lbs/gal) = (Density (lb/gal) * Weight % Organics)
Potential VOC (lbs/hr) = Maximum Capacity (gal/hr)*VOC(lbs/gal)
Potential VOC (lbs/yr) = Potential VOC (lbs/hr)*(8760 hr/year)
Potential VOC (ton/yr) = Potential VOC (lbs/yr)*(1 ton/2000 lbs)

Notes

The source mixes 3 Quarts of T DET Soap with 97.9 gallons of water for each 8 hour shift.
% of T DET N 9.5 in Final Mix = 0.79 %
Density of T DET N 9.5 Soap (lb/gal) = Density of water (8.3454 lb/gal) * specific gravity of T DET N 9.5 Soap taken from MSDS (1.06) = 8.8461
T DET N 9.5 weight % organics content (0.7%) based on Appendix A: Calculations from FESOP no. 017-10438-00029, issued on February 23, 2000.
** The material used in Dip Tank #2 is applied using dip coating methods, therefore particulate emissions are determined negligible.

Appendix A: Emission Calculations
HAP Emission Calculations
from Impregnation Line (EU-02)

Company Name: **Carter Fuel Systems, L.L.C.**
Address City IN Zip: **101 Industrial Boulevard, Logansport, IN 46947**
Adminstrative Amendment: **017-33806-00029**
Reviewer: **Jenny Liljegren**

Dip Tank #2

Material	Density (Lb/Gal)	Gallons of Material (gal/unit)	Weight % Glycol Ethers	Glycol Ethers Emissions (ton/yr)
T DET N 9.5 Soap	8.8404	0.094	1.50%	0.0546
Water	8.3454	12.238	0%	0.0000

Total State Potential Emissions **Single HAPs (tons/yr) :** **0.05**

Total Combined HAPs (tons/yr) : **0.05**

Methodology

Total emissions based on rated capacity at 8,760 hours/year.
Weight % were gathered from the MSDS
Potential for various HAPs = Density (lb/gal) * Maximum Capacity (gal/hr) * Weight % HAP * (8760 hrs/yr) * (1 ton/2000 lbs)
Potential for various HAPs = Maximum Capacity (lbs/hr) * Weight % HAP * (8760 hrs/yr) * (1 ton/2000 lbs)

Notes

The material used in Tank #2 is diluted with water to form an "as-applied" formulation of 3quarts of material to 1 gallon of water. The resultant solution is used for an entire 8-hour shift, which is equivalent to a maximum usage rate of 0.10 gallons per hour.
Based on MSDSs submitted by the source, the materials currently being used in Tanks #1, #3, and #4, each, do not contain any HAPs.

Appendix A: Emission Calculations
Electric Fuel Pump Test Line (EU-04) and
Technical Center Research and Development (EU-05)
Particulate Emissions from the Shotblast Operations

Company Name: **Carter Fuel Systems, L.L.C.**
Address City IN Zip: **101 Industrial Boulevard, Logansport, IN 46947**
Adminstrative Amendment: **017-33806-00029**
Reviewer: **Jenny Liljegren**

Unit ID	Control Efficiency (%)	Grain Loading per Actual Cubic foot of Outlet Air* (grains/acfm)	Gas or Air Flow Rate (acfm.)	Emission Rate after Controls (lb/hr)	Emission Rate after Controls (tons/yr)	Emission Rate before Controls (lb/hr)	Emission Rate before Controls (tons/yr)
Satellite Tool Room dust collector	95.0%	0.100	55.0	0.047	0.21	0.94	4.13
Technical Center Research and Development dust collector	95.0%	0.100	55.0	0.047	0.21	0.94	4.13
			Totals:	0.09	**0.41**	1.89	**8.26**

Methodology
Emission Rate in lbs/hr (after controls) = (grains/cub. ft.) (sq. ft.) ((cub. ft./min.)/sq. ft.) (60 min/hr) (lb/7000 grains)
Emission Rate in lbs/hr (before controls) = (Controlled emission rate lb/hr) / (1- control efficiency)
Emission Rate in tons/yr = (lbs/hr) (8760 hr/yr) (ton/2000 lb)

NOTES
*The dust collectors used to control particulate emissions from the shot blast units have not been rated for outlet grain loading. Therefore, a value of one hundred thousandths (0.100) grains/actual cubi feet/min has been used to form a conservative estimate.
PM10 and PM 2.5 emissions are assumed equal to PM emissions.
Based on a MSDS submitted by the source, the shotblast material currently in use by the source does not contain any HAPs.

Appendix A: Emission Calculations
Electric Fuel Pump Test Line (EU-04) and
Technical Center Research and Development (EU-05)
VOC and HAP Emissions

Company Name: Carter Fuel Systems, L.L.C.
Address City IN Zip: 101 Industrial Boulevard, Logansport, IN 46947
Adminstrative Amendment: 017-33806-00029
Reviewer: Jenny Liljegren

Electric Fuel Pump Test Line (EU-04) [1]

VOC carry out losses = 5.05 g/pump

VOC emissions (TPY) = gm/pump * pump/hr * hr/yr * lb/gm * ton/lb

4.33	tons per year

Technical Center Research and Development (EU-05)

VOC Emissions (TPY)

Testing Media	Gallons Purchased	Gallons used or sold	Gallons unaccounted	Density (lb/gal)	Lbs unaccounted/yr	VOC Emissions (TPY)
Gasoline	29,425.71	24,388.57	5,037.14	6.66	33,547.35	16.77
#2 Diesel	2,879.63	2,378.58	501.05	7.08	3,547.43	1.77
GP1140	4,006.66	3,173.48	833.18	6.16	5,132.39	2.57
Stoddard Solvent	3,523.93	2,114.36	1,409.57	6.41	9,035.34	4.52
					Total	25.63

HAPs Emissions (TPY)

Gasoline	Tons per year
MTBE = 15% (by weight) * 16.77 (tons per year) =	2.52
Xylene = 12% (by weight) * 16.77 (tons per year) =	2.01
Toluene = 10% (by weight) * 16.77 (tons per year) =	1.68
Benzene = 5% (by weight) *16.77 (tons per year) =	0.84
Ethyl Bz = 2% (by weight) * 16.77 (tons per year) =	0.34
	7.38
#2 Diesel	
Naphthalene = 1% (by weight) * 1.77 (tons per year) =	0.02
GP1140	
Toluene = 22% (by weight) + (3% of 67% (by weight)) * 2.57(tons per year) =	0.62
Xylene = (3% of 67% (by weight)) * 2.57 (tons per year) =	0.05
Stoddard Solvent	
Xylene = 1% (by weight) * 4.52 (tons per year) =	0.05

* Total VOC from Technical Center R & D =	26.50
* Total HAPs from Technical Center R & D =	8.09

* Note

Negligible emissions are expected from the roller vane diesel tester, oil pump audit stand, roller vane oil pump test stand, two (2) cold cleaners with self closing lid, two (2) cold cleaners with drum reservoir, samsco wastewater evaporator (oil & grease content less than 1%), blast cabinet located in satellite tool room and blast booth located in technical R & D center. All degreasing operations have an annual solvent usage less than 145 gallons per 12 months and the blast cabinets are serviced by 55 cfm dust collectors. Additionally, the industrial parts washer uses a soap based, non-VOC/non-HAP cleaner and the plastic injection molding lines do not contain any solvent in resin; therefore, there no emissions are expected from these units.

The emissions from these units are based on MSOP no. 017-18763-00029, issued on October 07, 2005.

Appendix A: Emission Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Ten (10) Forced-Air Heaters
Company Name: Carter Fuel Systems, L.L.C.
Address City IN Zip: 101 Industrial Boulevard, Logansport, IN 46947
Adminstrative Amendment: 017-33806-00029
Reviewer: Jenny Liljegren

Heat Input Capacity MMBtu/hr	HHV mmBtu/mmscf	Potential Throughput MMCF/yr
1.11	1020	9.5

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.01	0.04	0.04	0.003	0.48	0.03	0.40

*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
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
Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	1.0E-05	5.7E-06	3.6E-04	8.6E-03	1.6E-05

	HAPs - Metals				
	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	2.4E-06	5.2E-06	6.7E-06	1.8E-06	1.0E-05

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		
	CO2	CH4	N2O
Emission Factor in lb/MMcf	120,000	2.3	2.2
Potential Emission in tons/yr	572	1.1E-02	1.0E-02
Summed Potential Emissions in tons/yr	572		
CO2e Total in tons/yr	575		

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: Emission Calculations
BFMPTST test cell (2012)
Company Name: Carter Fuel Systems, L.L.C.
Address City IN Zip: 101 Industrial Boulevard, Logansport, IN 46947
Adminstrative Amendment: 017-33806-00029
Reviewer: Jenny Liljegren

Emission Unit ID:	**BFMPTST**		
Cycle time per Robotic Cell:	45	seconds	
Number of test units per Robotic Cell:	2		
Max. # of tests in 8,760 hours:	1,401,600		
Testing Fluid: Viscor 1487AW-2 Low Poor (MSDS submitted by source)			
Evaporative VOC loss per test:	0.0000111	pounds	(provided by source; same as existing production line fuel pump testing units)

VOC Emissions (lb/year)	**15.56**
VOC Emissions (ton/year)	**0.008**

Methodology

Maximum # of tests in 8,760 hours (tests/year) = Number of tests per Robotic Cell x 8,760 hours/year x [1/Cycle Time per Robotic cell (sec)] x 60 min/hour x 60 sec/min
VOC Emissions (lb/year) = Max. # of tests run in 8,760 hours (tests/year) x Evaporative VOC loss per test (lb/test)
VOC Emissions (ton/year) = VOC Emissions (lb/year) / 2,000 lb/ton

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: Ryan Slavens
Carter Fuel Systems, LLC
101 Industrial Blvd
Logansport, IN 46947

DATE: November 22, 2013

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

SUBJECT: Final Decision
Administrative Amendment
017-33806-00029

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:
James Hiem – Bruce Cater Associates
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.

Mail Code 61-53

IDEM Staff	GHOTOPP 11/22/2013 Carter Fuel Systems LLC 017-33806-00029 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		Ryan Slavens Carter Fuel Systems LLC 101 Industrial Blvd Logansport IN 46947 (Source CAATS) via confirmed delivery									
2		Mr. Harry D. DuVall P.O. Box 147 Idaville IN 47950 *(Affected Party)*									
3		Cass County Board of Commissioner 200 Court Park Logansport IN 46947 *(Local Official)*									
4		Cass County Health Department 512 High Street Logansport IN 46947-2766 *(Health Department)*									
5		Logansport City Council and Mayors Office 601 Broadway Logansport IN 46947 *(Local Official)*									
6		Mr. Robert Kelley 2555 S 30th Street Lafayette IN 44909 *(Affected Party)*									
7		Kurt Brandstatter Central Paving, Inc. P.O. Box 357 Logansport IN 46947 *(Affected Party)*									
8		James Heim Bruce Carter Associates 616 South 4th Street Elkhart IN 46516 *(Consultant)*									
9											
10											
11											
12											
13											
14											
15											

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is $50,000 per piece subject to a limit of $50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is $500. The maximum indemnity payable is $25,000 for registered mail, sent with optional postal insurance. See ***Domestic Mail Manual*** **R900, S913**, and **S921** for limitations of coverage on inured and COD mail. See ***International Mail Manual*** for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
7			

FACSIMILIE OF PS Form 3877