



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

Carol S. Comer
Commissioner

To: Interested Parties

Date: February 25, 2016

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

Source Name: Tenneco

Permit Level: MSOP - Administrative Amendment

Permit Number: 113 - 36801 - 00077

Source Location: 1490 Gerber Street, Ligonier, Indiana

Type of Action Taken: Changes that are administrative in nature

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 matter referenced above. Pursuant to 326 IAC 2, this approval was effective immediately upon submittal of the application.

The final decision is available on the IDEM website at: <http://www.in.gov/apps/idem/caats/>
To view the document, select Search option 3, then enter permit 36801.

If you would like to request a paper copy of the permit document, please contact IDEM's central file room:

Indiana Government Center North, Room 1201
100 North Senate Avenue, MC 50-07
Indianapolis, IN 46204
Phone: 1-800-451-6027 (ext. 4-0965)
Fax (317) 232-8659

(continues on next page)

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.



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February 25, 2016

Bob Gamble
Tenneco, Inc.
1490 Gerber Street
Ligonier, IN, 46767

Re: 113-36801-00077
Administrative Amendment to
M113-32606-00077

Dear Mr. Gamble:

Tenneco, Inc. was issued a Minor Source Operating Permit (MSOP) No. M113-32606-00077 on January 28, 2013 for a stationary muffler systems and automotive parts manufacturing source located at 1490 Gerber Street, Ligonier, IN, 46767. On February 2, 2016, the Office of Air Quality (OAQ) received an application from the source requesting to add three (3) existing modular cooling tower systems to the operating permit M133-32606-00077.


Pursuant to the provisions of 326 IAC 2-6.1-6(d), the permit is hereby administratively amended as described in the Technical Support Document.

All other conditions of the permit shall remain unchanged and in effect. Please find attached the entire MSOP as amended.

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 Permit Guide on the Internet at: <http://www.in.gov/idem/5881.htm>; and the Citizens' Guide to IDEM on the Internet at: <http://www.in.gov/idem/6900.htm>.

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 Kelsey Bonhivert of my staff at 317-233-1782 or 1-800-451-6027, and ask for extension 3-1782.

Sincerely,



Jenny Acker, Section Chief
Permits Branch
Office of Air Quality

Attachments: Updated Permit and TSD

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



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Michael R. Pence
Governor

Carol S. Comer
Commissioner

Minor Source Operating Permit OFFICE OF AIR QUALITY

**Tenneco, Inc.
1490 Gerber Street
Ligonier, Indiana 46767**

(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.: M113-32606-00077 | |
| Issued by/Signed by: Nathan C. Bell, Section Chief Permits Branch Office of Air Quality | Issuance Date: January 28, 2013 Expiration Date: January 28, 2018 |

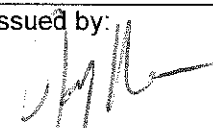
| | |
|--|--|
| Administrative Amendment No.: 113-36801-00077 | |
| Issued by:  Jenny Acker, Section Chief Permits Branch Office of Air Quality | Issuance Date: February 25, 2016 Expiration Date: January 28, 2018 |

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SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.3 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 muffler systems and automotive parts manufacturing.

| | |
|------------------------------|---|
| Source Address: | 1490 Gerber Street, Ligonier, Indiana 46767 |
| General Source Phone Number: | 260-894-9400 |
| SIC Code: | 3714 |
| County Location: | Noble |
| 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 Source Definition

This muffler systems and automotive parts manufacturing source consists of the following two (2) plants:

- (a) Plant 1 is located at 1490 Gerber Street, Ligonier, IN 46767; and
- (b) Plant 2 is located at 1493 Gerber Street, Ligonier, IN 46767.

Since these two (2) plants are located on adjacent properties, have the same major SIC code of 37, and are under common control, they will be considered one (1) source, as defined by 326 IAC 2-7-1(22).

A.3 Emission Units and Pollution Control Equipment Summary

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

1490 Gerber Street Building

- (a) Muffler Assembly
 - (1) Forty-five (45) MIG welding units used in semi-automatic welding stations, with units constructed in 2001, 2006, and 2006, each with a maximum capacity of 12.3 pounds of wire per hour;
 - (2) Fifteen (15) MIG welding units used in robotic welding stations, with units constructed in 2001, 2006, 2008, and 2009, each with a maximum capacity of 12.3 pounds of wire per hour;
 - (3) Thirty-four (34) MIG/TIG welding units used at hand welding stations, with units constructed in 2001, 2006, and 2009, each with a maximum capacity of 12.3 pounds of wire per hour;
 - (4) Four (4) MIG/TIG welding units for hand welding stations, with units constructed

in 2001, 2006, and 2009, used for maintenance and repair, each with a maximum capacity of 12.3 pounds of wire per hour;

- (5) Two (2) stick welding units, constructed in 2001, used for maintenance and repair, each with a maximum capacity of 2 pounds of wire per hour;
- (6) One (1) tube mill induction welding station, constructed in 2001, with a maximum capacity of 22,500 pounds of stainless steel per hour;
- (7) Four (4) plasma welding stations, identified as PW1 through PW4, constructed in 2006, each with a maximum capacity of 1,000 pounds of steel per hour; and
- (8) Three (3) plasma cutters, identified as PC1 through PC3, constructed in 2008, each with a maximum capacity of 2,000 pounds per hour of miscellaneous parts for maintenance and quality control.

The particulate matter emissions from these welding departments are controlled by five (5) Torit dust collectors, identified as T-1, T-2, T-3, T-4, and T-5, which exhaust within the building during winter months and outside the building during summer months. Some maintenance and touch-up welding units may not utilize the particulate control devices.

- (b) Two (2) plasma welding stations, identified as PW5 and PW6, constructed in 2010, each with a maximum capacity of 1,000 pounds of steel per hour (lbs/hr).
- (c) Three (3) natural gas-fired air make-up units, constructed in 2001, each with a maximum heat input capacity of 4.125 million British thermal units per hour (MMBtu/hr).
- (d) One (1) natural gas-fired air make-up unit, constructed in 2001, with a maximum heat input capacity of 3.85 MMBtu/hr.
- (e) Two (2) modular cooling tower systems, identified as CT-1200 and CT-375, constructed in 1981, with maximum recirculation rates of 1200 gpm and 375 gpm.

1493 Gerber Street Building

- (f) Muffler Assembly
 - (1) Twenty six (26) welding units in thirteen (13) 4 meter MIG robotic welding cells, approved for construction in 2013, each unit, with a maximum capacity of 12.3 pounds of wire per hour per welding unit;
 - (2) Six (6) welding units used in two (2) 5 meter MIG robotic welding cells, approved for construction in 2013, each of the welding units, with a maximum capacity of 12.3 pounds of wire per hour per welding unit; and
 - (3) Sixteen (16) MIG welding units used in hand welding stations, approved for construction in 2013, each unit with a maximum capacity of 12.3 pounds of wire per hour.
 - (4) Four (4) MIG welding units used in the Resonator Department (3 meter robot, melton welder, and accubilt welder) each unit with a maximum capacity of 12.3 pounds of wire per hour.

The particulate matter emissions from these welding departments or cells are controlled by three (3) dust collectors, identified as DC-001 through DC-003.

- (g) Five (5) natural gas-fired air make-up units, approved for construction in 2013, with a maximum combined heat input capacity of 1.43 MMBtu/hr.
- (h) One (1) modular cooling tower system, identified as CT-300, constructed in 2012, with a maximum recirculation rate of 300 gpm.

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, M113-32606-00077, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

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

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

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

B.4 Enforceability

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

B.5 Severability

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

B.6 Property Rights or Exclusive Privilege

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

B.7 Duty to Provide Information

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

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

- (a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.
- (b) The annual notice shall be submitted in the format attached no later than March 1 of each year to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (c) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

B.9 Preventive Maintenance Plan [326 IAC 1-6-3]

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

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

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

The Permittee shall implement the PMPs.

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

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

- (a) All terms and conditions of permits established prior to M113-32606-00077 and issued pursuant to permitting programs approved into the state implementation plan have been either:
- (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

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

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

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

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

Request for renewal shall be submitted to:

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

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

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

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to amend or modify this permit.

- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

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

- (c) The Permittee shall notify the OAQ no later than thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

B.14 Source Modification Requirement

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

B.15 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)][326 IAC 2-6.1-5(a)(4)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

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

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

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

- (a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

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

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

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

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

- (a) The Permittee shall pay annual fees due no later than thirty (30) calendar days of receipt of a bill from IDEM, OAQ,.
- (b) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

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

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

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

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

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

C.3 Opacity [326 IAC 5-1]

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

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

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

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

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

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

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

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

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

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

All required notifications shall be submitted to:

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

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

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

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

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

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

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

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

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

Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

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

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

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

- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale. 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) The first report shall cover the period commencing on the date of issuance of this permit or the date of initial start-up, whichever is later, and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit, "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

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

**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: | Tenneco, Inc. |
| Address: | 1490 Gerber Street |
| City: | Ligonier, Indiana 46767 |
| Phone #: | 260-894-9400 |
| MSOP #: | M113-32606-00077 |

I hereby certify that Tenneco, Inc. is :

still in operation.

no longer in operation.

I hereby certify that Tenneco, Inc. is :

in compliance with the requirements of MSOP M113-32606-00077.

not in compliance with the requirements of MSOP M113-32606-00077.

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

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

| |
|-----------------------|
| Noncompliance: |
| |
| |
| |
| |

MALFUNCTION REPORT

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

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

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

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

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

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

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

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

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: _____

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

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

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: _____

MEASURES TAKEN TO MINIMIZE EMISSIONS: _____

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL* SERVICES: _____

CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: _____

CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: _____

INTERIM CONTROL MEASURES: (IF APPLICABLE) _____

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

MALFUNCTION RECORDED BY: _____ DATE: _____ TIME: _____

*SEE PAGE 2

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

326 IAC 1-6-1 Applicability of rule

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

326 IAC 1-2-39 "Malfunction" definition

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

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

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

**Indiana Department of Environmental Management
Office of Air Quality**

Technical Support Document (TSD) an Administrative Amendment to a
Minor Source Operating Permit (MSOP)

Source Description and Location

| | |
|--|---|
| Source Name: | Tenneco, Inc. |
| Source Location: | 1490 Gerber Street, Ligonier, IN 46767 |
| County: | Noble |
| SIC Code: | 3714 (Motor Vehicle Parts and Accessories) |
| Operation Permit No.: | 113-32606-00077 |
| Operation Permit Issuance Date: | January 28, 2013 |
| Administrative Amendment No.: | 113-36801-00077 |
| Permit Reviewer: | Kelsey Bonhivert |

On February 2, 2016, the Office of Air Quality (OAQ) received an application from Tenneco, Inc. related to a modification to an existing stationary muffler systems and automotive parts manufacturing source.

Source Definition

This source consists of the following plants:

- (a) Plant 1 is located at 1490 Gerber Street, Ligonier, IN 46767; and
- (b) Plant 2 is located at 1493 Gerber Street, Ligonier, IN 46767.

This source consists of the following plants that are located on adjacent properties, have the same two-digit SIC codes of (3714) and are under common control; therefore, they have been considered one (1) source, as defined by 326 IAC 2-7-1(22). This determination was initially made under MSOP No. 113-32606-00077, issued on January 28, 2013.

Existing Approvals

The source was issued MSOP No. M113-36801-00077 on January 28, 2013. There have been no subsequent approvals issued.

County Attainment Status

The source is located in Noble County.

| Pollutant | Designation |
|---|--|
| SO ₂ | Better than national standards. |
| CO | Unclassifiable or attainment effective November 15, 1990. |
| O ₃ | Unclassifiable or attainment effective July 20, 2012, for the 2008 8-hour ozone standard. ¹ |
| PM _{2.5} | Unclassifiable or attainment effective April 5, 2005, for the annual PM _{2.5} standard. |
| PM _{2.5} | Unclassifiable or attainment effective December 13, 2009, for the 24-hour PM _{2.5} standard. |
| PM ₁₀ | Unclassifiable effective November 15, 1990. |
| NO ₂ | Cannot be classified or better than national standards. |
| Pb | Unclassifiable or attainment effective December 31, 2011. |
| ¹ Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005. Unclassifiable or attainment effective April 5, 2005, for PM _{2.5} . | |

- (a) **Ozone Standards**
 Volatile organic compounds (VOC) and Nitrogen Oxides (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to ozone. Noble County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) **PM_{2.5}**
 Noble County has been classified as attainment for PM_{2.5}. Therefore, direct PM_{2.5}, SO₂, and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (c) **Other Criteria Pollutants**
 Noble County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

| |
|---------------------------|
| Fugitive Emissions |
|---------------------------|

- (a) The fugitive emissions of regulated pollutants and hazardous air pollutants are counted toward the determination of 326 IAC 2-6.1 (Minor Source Operating Permits) applicability.
- (b) Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7, and there is no applicable New Source Performance Standard that was in effect on August 7, 1980, fugitive emissions are not counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

| |
|--------------------------------------|
| Status of the Existing Source |
|--------------------------------------|

The table below summarizes the uncontrolled/unlimited potential to emit of the entire source, prior to the proposed amendment:

This PTE table is from the TSD or Appendix A of M113-32606-00077, issued on January 28, 2013.

| Process/ Emission Unit | Uncontrolled/Unlimited Potential To Emit of the Entire Source Prior to Amendment (tons/year) | | | | | | | | |
|--|--|--------------|--------------|-----------------|-------------|-------------|-------------|-------------|-----------------------------|
| | PM | PM10* | PM2.5** | SO ₂ | NOx | VOC | CO | Total HAPs | Worst Single HAP (Chromium) |
| Plant 1 - 1490 Gerber Street | | | | | | | | | |
| Welding and Cutting Operations | 58.15 | 58.15 | 58.15 | - | - | - | - | 3.92 | 2.11 |
| Natural Gas Combustion | 0.14 | 0.54 | 0.54 | 0.04 | 7.11 | 0.39 | 5.97 | 0.13 | 9.95E-05 |
| Paved Roadways | 0.39 | 0.08 | 0.02 | - | - | - | - | - | - |
| Total: | 58.68 | 58.77 | 58.71 | 0.04 | 7.11 | 0.39 | 5.97 | 4.06 | 2.11 |
| Plant 2 - 1493 Gerber Street | | | | | | | | | |
| Welding Operations | 30.26 | 30.26 | 30.26 | - | - | - | - | 2.07 | 1.12 |
| Natural Gas Combustion | 0.01 | 0.05 | 0.05 | 3.76E-03 | 0.63 | 0.03 | 0.53 | 0.01 | 8.77E-06 |
| Paved Roadways | 0.15 | 0.03 | 0.01 | - | - | - | - | - | - |
| Total: | 30.42 | 30.33 | 30.31 | 0.00 | 0.63 | 0.03 | 0.53 | 2.08 | 1.12 |
| Total PTE of Entire Source | 89.10 | 89.11 | 89.02 | 0.43 | 7.73 | 0.05 | 6.50 | 6.14 | 3.23 |
| Title V Major Source Thresholds | - | 100 | 100 | 100 | 100 | 100 | 100 | 25 | 10 |
| MSOP Threshold | 25 | 25 | 25 | 25 | 25 | 25 | - | - | - |
| negl. = negligible * Under the Part 70 Permit program (40 CFR 70), PM10 and PM2.5, not particulate matter (PM), are each considered as a "regulated air pollutant". **PM _{2.5} listed is direct PM _{2.5} . | | | | | | | | | |

Description of Proposed Amendment

The Office of Air Quality (OAQ) has reviewed an application, submitted by Tenneco, Inc. on February 2, 2016, relating to the addition of three (3) existing modular cooling tower systems to the operating permit, M113-36801-00077, issued on January 28, 2013.

The following is a list of the new emission units:

1490 Gerber Street building

- (a) Two (2) modular cooling tower systems, identified as CT-1200 and CT-375, constructed in 1981, with maximum recirculation rates of 1200 gpm and 375 gpm.

1493 Gerber Street building

- (b) One (1) modular cooling tower system, identified as CT-300, constructed in 2012, with a maximum recirculation rate of 300 gpm.

Enforcement Issues

There are no pending enforcement actions related to this amendment.

Emission Calculations

See Appendix A of this TSD for detailed emission calculations.

Permit Level Determination - MSOP Amendment

The following table is used to determine the appropriate permit level under 326 IAC 2-6.1-6. This table reflects the PTE before controls of the proposed amendment. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

| Process/ Emission Unit | Uncontrolled/Unlimited Potential To Emit of Proposed Amendment (tons/year) | | | | | | | | |
|--|--|-------------|-------------|-----------------|-----------------|-----|----|------------|------------------|
| | PM | PM10 | PM2.5 | SO ₂ | NO _x | VOC | CO | Total HAPs | Worst Single HAP |
| 1490 Gerber Street Modular Cooling Tower Systems | 0.07 | 0.07 | 0.07 | - | - | - | - | - | - |
| 1493 Gerber Street Modular Cooling Tower System | 0.01 | 0.01 | 0.01 | - | - | - | - | - | - |
| Total PTE of Proposed Amendment | 0.08 | 0.08 | 0.08 | - | - | - | - | - | - |
| negl. = negligible | | | | | | | | | |

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

PTE of the Entire Source After Issuance of the MSOP Amendment

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

| Process/ Emission Unit | Uncontrolled/Unlimited Potential To Emit of the Entire Source After Amendment (tons/year) | | | | | | | | |
|--|---|----------------------------------|----------------------------------|-----------------|------|------|------|------------|-----------------------------|
| | PM | PM10* | PM2.5** | SO ₂ | NOx | VOC | CO | Total HAPs | Worst Single HAP (Chromium) |
| Plant 1 - 1490 Gerber Street | | | | | | | | | |
| Welding and Cutting Operations | 58.15 | 58.15 | 58.15 | - | - | - | - | 3.92 | 2.11 |
| Natural Gas Combustion | 0.14 | 0.54 | 0.54 | 0.04 | 7.11 | 0.39 | 5.97 | 0.13 | 9.95E-05 |
| Paved Roadways | 0.39 | 0.08 | 0.02 | - | - | - | - | - | - |
| Cooling Towers | 0.07 | 0.07 | 0.07 | - | - | - | - | - | - |
| Plant 2 - 1493 Gerber Street | | | | | | | | | |
| Welding and Cutting Operations | 30.26 | 30.26 | 30.6 | - | - | - | - | 2.07 | 1.12 |
| Natural Gas Combustion | 0.01 | 0.05 | 0.05 | 3.76E-03 | 0.63 | 0.03 | 0.53 | 0.01 | 8.77E-06 |
| Paved Roadways | 0.15 | 0.03 | 0.01 | - | - | - | - | - | - |
| Cooling Towers | 0.01 | 0.01 | 0.01 | - | - | - | - | - | - |
| Total PTE of Entire Source | 89.17 89.10 | 89.18 89.11 | 89.10 89.02 | 0.05 | 7.73 | 0.43 | 6.50 | 6.14 | 3.23 |
| Title V Major Source Thresholds | - | 100 | 100 | 100 | 100 | 100 | 100 | 25 | 10 |
| MSOP Threshold | 25 | 25 | 25 | 25 | 25 | 25 | - | - | - |
| negl. = negligible * Under the Part 70 Permit program (40 CFR 70), PM10 and PM2.5, not particulate matter (PM), are each considered as a "regulated air pollutant". **PM _{2.5} listed is direct PM _{2.5} . | | | | | | | | | |

The table below summarizes the uncontrolled/unlimited potential to emit of the entire source after issuance of this revision. The table below was generated from the above table, with bold text un-bolded and strikethrough text deleted.

| Process/ Emission Unit | Uncontrolled/Unlimited Potential To Emit of the Entire Source After Amendment (tons/year) | | | | | | | | |
|--|---|-------|---------|-----------------|------|------|------|------------|-----------------------------|
| | PM | PM10* | PM2.5** | SO ₂ | NOx | VOC | CO | Total HAPs | Worst Single HAP (Chromium) |
| Plant 1 - 1490 Gerber Street | | | | | | | | | |
| Welding and Cutting Operations | 58.15 | 58.15 | 58.15 | - | - | - | - | 3.92 | 2.11 |
| Natural Gas Combustion | 0.14 | 0.54 | 0.54 | 0.04 | 7.11 | 0.39 | 5.97 | 0.13 | 9.95E-05 |
| Paved Roadways | 0.39 | 0.08 | 0.02 | - | - | - | - | - | - |
| Cooling Towers | 0.07 | 0.07 | 0.07 | - | - | - | - | - | - |
| Plant 2 - 1493 Gerber Street | | | | | | | | | |
| Welding and Cutting Operations | 30.26 | 30.26 | 30.6 | - | - | - | - | 2.07 | 1.12 |
| Natural Gas Combustion | 0.01 | 0.05 | 0.05 | 3.76E-03 | 0.63 | 0.03 | 0.53 | 0.01 | 8.77E-06 |
| Paved Roadways | 0.15 | 0.03 | 0.01 | - | - | - | - | - | - |
| Cooling Towers | 0.01 | 0.01 | 0.01 | - | - | - | - | - | - |
| Total PTE of Entire Source | 89.17 | 89.18 | 89.10 | 0.05 | 7.73 | 0.43 | 6.50 | 6.14 | 3.23 |
| Title V Major Source Thresholds | - | 100 | 100 | 100 | 100 | 100 | 100 | 25 | 10 |
| MSOP Threshold | 25 | 25 | 25 | 25 | 25 | 25 | - | - | - |
| negl. = negligible * Under the Part 70 Permit program (40 CFR 70), PM10 and PM2.5, not particulate matter (PM), are each considered as a "regulated air pollutant". **PM _{2.5} listed is direct PM _{2.5} . | | | | | | | | | |

MSOP Status

- (1) **Criteria Pollutants**
 This amendment to an existing Title V minor stationary source will not change the minor status, because the uncontrolled/unlimited potential to emit criteria pollutants from the entire source will still be less than the Title V major source threshold levels. Therefore, the source will still be subject to the provisions of 326 IAC 2-6.1 (MSOP).
- (2) **HAPs**
 This amendment will not change the minor status of the source, because the uncontrolled/unlimited potential to emit of any single HAP will still be less than ten (10) tons per year and the PTE of a combination of HAPs will still be less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-7.

Permit Level Determination - PSD or Emission Offset or Nonattainment NSR

- (a) **PSD Minor Source - PM**
 This modification to an existing PSD minor stationary source will not change the PSD minor status, because the uncontrolled/unlimited potential to emit PM from the entire source will continue to be less than the PSD major source threshold levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.
- (b) **PSD Minor Source - Other Regulated Pollutants**
 This modification to an existing PSD minor stationary source will not change the PSD minor status, because the uncontrolled/unlimited potential to emit of all PSD regulated pollutants from the entire source will continue to be less than the PSD major source threshold levels. Therefore,

pursuant to 326 IAC 2-2, the PSD requirements do not apply. See PTE of the Entire Source After Issuance of the MSOP Amendment Section above or Appendix A.

Federal Rule Applicability Determination

- (a) New Source Performance Standards (NSPS)
 - (1) There is no New Source Performance Standards included for this proposed amendment.
- (b) National Emission Standards for Hazardous Air Pollutants (NESHAP)
 - (1) The requirements of the National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers, 40 CFR 63, Subpart Q and 326 IAC 20-4, are not included for this proposed amendment, since the units are not operated with chromium-based water treatment chemicals and are not major sources.
 - (2) There are no other National Emission Standards for Hazardous Air Pollutants (40 CFR Part 63), 326 IAC 14 and 326 IAC 20 included for this proposed amendment.

State Rule Applicability Determination

- (a) 326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

See PTE of the Entire Source After Issuance of the MSOP Amendment Section above.
- (b) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))

The proposed amendment is not subject to the requirements of 326 IAC 2-4.1, since the unlimited potential to emit of HAPs from the new units are less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs.

See PTE of the Entire Source After Issuance of the MSOP Amendment Section above.
- (c) 326 IAC 2-6.1 (Minor Source Operating Permits (MSOP))

MSOP applicability is discussed under the Permit Level Determination - MSOP section above.
- (d) 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing)

The proposed amendment is not subject to the requirements of 326 IAC 6-3 since the units are exempt pursuant to 326 IAC 6-3-1(b)(11).
- (e) 326 IAC 6-4 (Fugitive Dust Emissions Limitations)

Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source 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.
- (g) 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)

The proposed amendment is not subject to the requirements of 326 IAC 6-5 since the potential fugitive particulate emissions are less than 25 tons per year.
- (h) 326 IAC 12 (New Source Performance Standards)

See Federal Rule Applicability Section of this TSD.

- (i) 326 IAC 20 (Hazardous Air Pollutants)

See Federal Rule Applicability Section of this TSD.

Compliance Determination, Monitoring and Testing Requirements

The existing compliance requirements will not change as a result of this amendment. The source shall continue to comply with the applicable requirements and permit conditions as contained in MSOP No: M113-32606-00077, issued on January 28, 2013 with its most recent revisions and amendments.

Proposed Changes

The following changes listed below are due to the proposed amendment. Deleted language appears as ~~strike through~~ text and new language appears as **bold** text:

Proposed Changes

- (1) Condition A.3 was revised to include the cooling towers.

A.3 Emission Units and Pollution Control Equipment Summary

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

1490 Gerber Street Building
.....

- (e) Two (2) modular cooling tower systems, identified as CT-1200 and CT-375, constructed in 1981, with maximum recirculation rates of 1200 gpm and 375 gpm.**

.....

1493 Gerber Street Building
.....

- (h) One (1) modular cooling tower system, identified as CT-300, constructed in 2012, with a maximum recirculation rate of 300 gpm.**

Additional Changes

Conditions B.2 - Revocation of Permits and B.3 - Affidavit of Construction, the Affidavit of Construction form, are no longer necessary. Tenneco, Inc. was issued a validation letter on January 8, 2014. The permit has been amended as follows: (Subsequent conditions have been renumbered as necessary)

~~B.2 Revocation of Permits [326 IAC 2-1.1-9(5)]~~

~~Pursuant to 326 IAC 2-1.1-9(5)(Revocation of Permits), the Commissioner may revoke this permit if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.~~

~~B.3 Affidavit of Construction [326 IAC 2-5.1-3(h)][326 IAC 2-5.1-4]~~

~~This document shall also become the approval to operate pursuant to 326 IAC 2-5.1-4 when prior to the start of operation, the following requirements are met:~~

- ~~(a) The attached Affidavit of Construction shall be submitted to the Office of Air Quality (OAQ), verifying that the emission units were constructed as proposed in the application or the permit. The emission units covered in this permit may begin operating on the date~~

~~the Affidavit of Construction is postmarked or hand-delivered to IDEM if constructed as proposed.~~

~~(b) If actual construction of the emission units differs from the construction proposed in the application, the source may not begin operation until the permit has been revised pursuant to 326 IAC 2 and an Operation Permit Validation Letter is issued.~~

~~(c) The Permittee shall attach the Operation Permit Validation Letter received from the Office of Air Quality (OAQ) to this permit.~~

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

.....

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

Tenneco, Inc. _____
1490 Gerber Street and
1493 Gerber Street
Ligonier, Indiana 46767 _____

Affidavit of Construction

I, _____, being duly sworn upon my oath, depose and say:
(Name of the Authorized Representative)

1. I live in _____ County, Indiana and being of sound mind and over twenty-one (21) years of age, I am competent to give this affidavit.

2. I hold the position of _____ for _____;
(Title) (Company Name)

3. By virtue of my position with _____, I have personal
(Company Name)
knowledge of the representations contained in this affidavit and am authorized to make
these representations on behalf of _____;
(Company Name)

4. I hereby certify that Tenneco, Inc. 1490 Gerber Street and 1493 Gerber Street, Ligonier, Indiana 46767, completed construction of the muffler systems and automotive parts manufacturing source on _____ in conformity with the requirements and intent of the construction permit application received by the Office of Air Quality on December 7, 2012, and as permitted pursuant to New Source Construction Permit and Minor Source Operating Permit No. M113-32606-00077, Plant ID No. 113-00077 issued on _____.

5. **Permittee, please cross out the following statement if it does not apply:** Additional (operations/facilities) were constructed/substituted as described in the attachment to this document and were not made in accordance with the construction permit.

Further Affiant said not.

I affirm under penalties of perjury that the representations contained in this affidavit are true, to the best of my information and belief.

Signature _____
Date _____

STATE OF INDIANA)
_____)SS

COUNTY OF _____)

Subscribed and sworn to me, a notary public in and for _____ County and State of Indiana
on this _____ day of _____, 20 _____. My Commission expires: _____.

Signature _____
Name _____ (typed or printed)

Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on February 2, 2016.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Kelsey Bonhivert at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 233-1782 or toll free at 1-800-451-6027 extension 3-1782.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Permit Guide on the Internet at: <http://www.in.gov/idem/5881.htm>; and the Citizens' Guide to IDEM on the Internet at: <http://www.in.gov/idem/6900.htm>.

**Appendix A: Emissions Calculations
Source-Wide Emission Summary**

Company Name: Tenneco, Inc.
Source Address(es): 1490 Gerber Street, Ligonier, IN 46767
 1493 Gerber Street, Ligonier, IN 46767
Permit No.: M113-36801-00077
Source ID: 113-00077
Reviewer: Kelsey Bonhivert
Date: February 11, 2016

| Process | Potential to Emit Before Control | | | | | | | | | |
|-------------------------------------|----------------------------------|--------------|--------------|-------------|-------------|-------------|-------------|---------------|-------------------------------|---------------|
| | PM | PM10 | PM2.5 | VOC | NOx | SO2 | CO | CO2e as GHGs | Highest Single HAP (Chromium) | Combined HAPs |
| Plant 1 - 1490 Gerber Street | | | | | | | | | | |
| <u>Emission Units</u> | | | | | | | | | | |
| Welding and Cutting Operations | 58.15 | 58.15 | 58.15 | - | - | - | - | - | 2.11 | 3.92 |
| Natural Gas Combustion | 0.14 | 0.54 | 0.54 | 0.39 | 7.11 | 0.04 | 5.97 | 8,580 | 9.95E-05 | 0.13 |
| Paved Roadways | 0.39 | 0.08 | 0.02 | - | - | - | - | - | - | - |
| Cooling Towers | 0.07 | 0.07 | 0.07 | - | - | - | - | - | - | - |
| Total: | 58.74 | 58.84 | 58.78 | 0.39 | 7.11 | 0.04 | 5.97 | 8,580 | 2.11 | 4.06 |
| Plant 2 - 1493 Gerber Street | | | | | | | | | | |
| <u>Emission Units</u> | | | | | | | | | | |
| Welding Operations | 30.26 | 30.26 | 30.26 | - | - | - | - | - | 1.12 | 2.07 |
| Natural Gas Combustion | 0.01 | 0.05 | 0.05 | 0.03 | 0.63 | 3.76E-03 | 0.53 | 756 | 8.77E-06 | 0.01 |
| Paved Roadways | 0.15 | 0.03 | 0.01 | - | - | - | - | - | - | - |
| Cooling Towers | 0.01 | 0.01 | 0.01 | - | - | - | - | - | - | - |
| Total: | 30.43 | 30.35 | 30.32 | 0.03 | 0.63 | 0.00 | 0.53 | 756.18 | 1.12 | 2.08 |
| Combined Total | 89.17 | 89.18 | 89.10 | 0.43 | 7.73 | 0.05 | 6.50 | 9,336 | 3.23 | 6.14 |

**Appendix A: Emissions Calculations
1490 Gerber St. Welding/Cutting Units**

Company Name: Tenneco, Inc.
Source Address: 1490 Gerber St., Ligonier, IN 46767
Permit Number: M113-36801-00077
Plt ID: 113-00077
Reviewer: Kelsey Bonhivert
Date: February 11, 2016

| PROCESS | Number of stations | Max. electrode consumption per station (lbs/hr) | EMISSION FACTORS* (lb pollutant/lb electrode) | | | | EMISSIONS (lbs/hr) | | | | HAPS (lbs/hr) | |
|--|--------------------|---|--|---|---------|--------|-----------------------|-----------------------|-------|-------|------------------|------------------|
| | | | PM = PM10 | Mn | Ni | Cr | PM = PM10 | Mn | Ni | Cr | | |
| WELDING | | | | | | | | | | | | |
| Semi-Automatic MIG Welding Stations | 45 | 12.3 | 0.0108 | 0.0003 | 0.00004 | 0.0004 | 5.98 | 0.166 | 0.022 | 0.22 | 0.410 | |
| Robotic Welding Stations | 15 | 12.3 | 0.0108 | 0.0003 | 0.00004 | 0.0004 | 1.99 | 0.055 | 0.007 | 0.07 | 0.137 | |
| MIG/TIG Hand Welding Stations | 34 | 12.3 | 0.0108 | 0.0003 | 0.00004 | 0.0004 | 4.52 | 0.125 | 0.017 | 0.17 | 0.309 | |
| MIG/TIG M&R Hand Welding Stations | 4 | 12.3 | 0.0108 | 0.0003 | 0.00004 | 0.0004 | 0.53 | 0.015 | 0.002 | 0.02 | 0.036 | |
| Stick Welding Units | 2 | 2 | 0.0384 | 0.001 | - | - | 0.15 | 0.004 | - | - | 0.004 | |
| Tube Mill Induction Welding Station ^A | 1 | NA | - | - | - | - | - | - | - | - | - | |
| Plasma Welding Stations ^B | 6 | NA | - | - | - | - | - | - | - | - | - | |
| PROCESS | Number of Stations | Max. Metal Thickness Cut (in.) | Max. Metal Cutting Rate (in./minute) | EMISSION FACTORS (lb pollutant/1,000 inches cut, 1" thick)** | | | | EMISSIONS (lbs/hr) | | | | HAPS (lbs/hr) |
| | | | | PM = PM10 | Mn | Ni | Cr | PM = PM10 | Mn | Ni | Cr | |
| FLAME CUTTING | | | | | | | | | | | | |
| 3 plasma cutters | 3 | 0.375 | 150 | 0.0039 | | | | 0.105 | 0.000 | 0.000 | 0.000 | 0.000 |

| EMISSION TOTALS | | | | | |
|--------------------------------------|--------------|-------------|-------------|-------------|-------------|
| Potential Emissions lbs/hr | 13.28 | 0.37 | 0.05 | 0.48 | 0.90 |
| Potential Emissions lbs/day | 318.65 | 8.77 | 1.16 | 11.57 | 21.50 |
| Potential Emissions tons/year | 58.15 | 1.60 | 0.21 | 2.11 | 3.92 |

Note:

A - The tube mill induction welding station uses no consumables. Sheet steel is rolled and heated by induction to form a continuous tube. Therefore, emissions are assumed to be negligible.
B - Emissions from plasma welders are assumed to be negligible since no consumables are used.

Methodology:

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

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

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

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

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

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

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

**Appendix A: Emissions Calculations
Natural Gas Combustion Units**

Company Name: Tenneco, Inc.
Source Address: 1490 Gerber St., Ligonier, IN 46767
Permit Number: M113-36801-00077
Plt ID: 113-00077
Reviewer: Kelsey Bonhivert
Date: February 11, 2016

| Heat Input Capacity MMBtu/hr | Potential Throughput MMCF/yr | Emission Unit ID |
|---------------------------------|---------------------------------|--|
| 12.375 | 108.41 | Three (3) air make-up units @ 4.125 MMBtu/hr, each One (1) air make-up unit @ 3.85 MMBtu/hr |
| 3.850 | 33.73 | |
| 16.23 | 142.13 | |

| Emission Factor in lb/MMCF | Pollutant | | | | | | |
|-------------------------------|-----------|-------|---------------|------|--------------------|------|------|
| | PM* | PM10* | direct PM2.5* | SO2 | NOx | VOC | CO |
| | 1.9 | 7.6 | 7.6 | 0.6 | 100 **see below | 5.5 | 84 |
| Potential Emission in tons/yr | 0.14 | 0.54 | 0.54 | 0.04 | 7.11 | 0.39 | 5.97 |

*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/1,000 MMBtu

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

Hazardous Air Pollutant Emissions

| Emission Factor in lb/MMcf | HAPs - Organics | | | | |
|-------------------------------|-----------------|-----------------|--------------|---------|---------|
| | Benzene | Dichlorobenzene | Formaldehyde | Hexane | Toluene |
| | 2.1E-03 | 1.2E-03 | 7.5E-02 | 1.8E+00 | 3.4E-03 |
| Potential Emission in tons/yr | 1.5E-04 | 8.5E-05 | 5.3E-03 | 0.13 | 2.4E-04 |

| Emission Factor in lb/MMcf | HAPs - Metals | | | | |
|-------------------------------|---------------|---------|----------|-----------|---------|
| | Lead | Cadmium | Chromium | Manganese | Nickel |
| | 5.0E-04 | 1.1E-03 | 1.4E-03 | 3.8E-04 | 2.1E-03 |
| Potential Emission in tons/yr | 3.6E-05 | 7.8E-05 | 9.9E-05 | 2.7E-05 | 1.5E-04 |

Combined HAPs: 0.13

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

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

Greenhouse Gas Emissions

| Emission Factor in lb/MMcf | Greenhouse Gas | | |
|---------------------------------------|----------------|------|------|
| | CO2 | CH4 | N2O |
| | 120,000 | 2.3 | 2.2 |
| Potential Emission in tons/yr | 8,528 | 0.16 | 0.16 |
| Summed Potential Emissions in tons/yr | 8,528 | | |
| CO2e Total in tons/yr | 8,580 | | |

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
Fugitive Dust Emissions - Paved Roads

Company Name: Tenneco, Inc.
Source Address: 1490 Gerber St., Ligonier, IN 46767
Permit Number: M113-36801-00077
Plt ID: 113-00077
Reviewer: Kelsey Bonhivert
Date: February 11, 2016

Paved Roads at Industrial Site

The following calculations determine the amount of emissions created by paved roads, based on 8,760 hours of use and AP-42, Ch 13.2.1 (1/2011).

Vehicle Information (provided by source)

| Type | Maximum number of vehicles per day | Number of one-way trips per day per vehicle | Maximum trips per day (trip/day) | Maximum Weight Loaded (tons/trip) | Total Weight driven per day (ton/day) | Maximum one-way distance (feet/trip) | Maximum one-way distance (mi/trip) | Maximum one-way miles (miles/day) | Maximum one-way miles (miles/yr) |
|----------------------------|------------------------------------|---|----------------------------------|-----------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-----------------------------------|----------------------------------|
| Inbound Delivery Vehicles | 17.0 | 1.0 | 17.0 | 22.5 | 382.5 | 200 | 0.038 | 0.6 | 235.0 |
| Outbound Delivery Vehicles | 17.0 | 1.0 | 17.0 | 16.4 | 279.5 | 200 | 0.038 | 0.6 | 235.0 |
| Total | | | 34.0 | | 662.0 | | | 1.3 | 470.1 |

Average Vehicle Weight Per Trip = $\frac{19.5}{0.04}$ tons/trip
Average Miles Per Trip = $\frac{19.5}{0.04}$ miles/trip

Unmitigated Emission Factor, Ef = $[k * (sL)^{0.91} * (W)^{1.02}]$ (Equation 1 from AP-42 13.2.1)

| | PM | PM10 | PM2.5 | |
|-----------|-------|--------|---------|---|
| where k = | 0.011 | 0.0022 | 0.00054 | lb/VMT = particle size multiplier (AP-42 Table 13.2.1-1) |
| W = | 19.5 | 19.5 | 19.5 | tons = average vehicle weight (provided by source) |
| sL = | 9.7 | 9.7 | 9.7 | g/m ² = silt loading value for paved roads at iron and steel production facilities - Table 13.2.1-3) |

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor, Eext = $E * [1 - (p/4N)]$ (Equation 2 from AP-42 13.2.1)

Mitigated Emission Factor, Eext = $\frac{Ef * [1 - (p/4N)]}{N}$
where p = $\frac{125}{365}$ days of rain greater than or equal to 0.01 inches (see Fig. 13.2.1-2)
N = 365 days per year

| | PM | PM10 | PM2.5 | |
|-----------------------------------|-------|-------|--------|---------|
| Unmitigated Emission Factor, Ef = | 1.797 | 0.359 | 0.0882 | lb/mile |
| Mitigated Emission Factor, Eext = | 1.643 | 0.329 | 0.0807 | lb/mile |

| Process | Unmitigated PTE of PM (tons/yr) | Unmitigated PTE of PM10 (tons/yr) | Unmitigated PTE of PM2.5 (tons/yr) | Mitigated PTE of PM (tons/yr) | Mitigated PTE of PM10 (tons/yr) | Mitigated PTE of PM2.5 (tons/yr) |
|----------------------------|---------------------------------|-----------------------------------|------------------------------------|-------------------------------|---------------------------------|----------------------------------|
| Inbound Delivery Vehicles | 0.21 | 0.04 | 0.01 | 0.19 | 0.04 | 0.01 |
| Outbound Delivery Vehicles | 0.21 | 0.04 | 0.01 | 0.19 | 0.04 | 0.01 |
| Totals: | 0.42 | 0.08 | 0.02 | 0.39 | 0.08 | 0.02 |

Methodology

Total Weight driven per day (ton/day) = [Maximum Weight Loaded (tons/trip)] * [Maximum trips per day (trip/day)]
Maximum one-way distance (mi/trip) = [Maximum one-way distance (feet/trip)] / [5280 ft/mile]
Maximum one-way miles (miles/day) = [Maximum trips per year (trip/day)] * [Maximum one-way distance (mi/trip)]
Average Vehicle Weight Per Trip (ton/trip) = SUM[Total Weight driven per day (ton/day)] / SUM[Maximum trips per day (trip/day)]
Average Miles Per Trip (miles/trip) = SUM[Maximum one-way miles (miles/day)] / SUM[Maximum trips per year (trip/day)]
Unmitigated PTE (tons/yr) = [Maximum one-way miles (miles/yr)] * [Unmitigated Emission Factor (lb/mile)] * (ton/2000 lbs)
Mitigated PTE (tons/yr) = [Maximum one-way miles (miles/yr)] * [Mitigated Emission Factor (lb/mile)] * (ton/2000 lbs)

Abbreviations

PM = Particulate Matter
PM10 = Particulate Matter (<10 um)
PM2.5 = Particle Matter (<2.5 um)
PTE = Potential to Emit

**Appendix A: Emissions Calculations
1493 Gerber St. Welding Units**

Company Name: Tenneco, Inc.
Source Address: 1493 Gerber St., Ligonier, IN 46767
Permit Number: M113-36801-00077
Plt ID: 113-00077
Reviewer: Kelsey Bonhivert
Date: February 11, 2016

| PROCESS | Number of Stations | Max. electrode consumption per station (lbs/hr) | EMISSION FACTORS* (lb pollutant/lb electrode) | | | | EMISSIONS (lbs/hr) | | | | HAPS (lbs/hr) |
|--|--------------------|---|--|--------|---------|--------|-----------------------|------|-------|------|------------------|
| | | | PM = PM10 | Mn | Ni | Cr | PM = PM10 | Mn | Ni | Cr | |
| WELDING | | | | | | | | | | | |
| 4 meter MIG robotic welding cells (13 cells) | 26 | 12.3 | 0.0108 | 0.0003 | 0.00004 | 0.0004 | 3.454 | 0.10 | 0.013 | 0.13 | 0.24 |
| 5 meter MIG robotic welding cells (2 cells) | 6 | 12.3 | 0.0108 | 0.0003 | 0.00004 | 0.0004 | 0.797 | 0.02 | 0.003 | 0.03 | 0.05 |
| MIG hand welding station | 16 | 12.3 | 0.0108 | 0.0003 | 0.00004 | 0.0004 | 2.125 | 0.06 | 0.008 | 0.08 | 0.15 |
| Resonator Department | 4 | 12.3 | 0.0108 | 0.0003 | 0.00004 | 0.0004 | 0.531 | 0.01 | 0.002 | 0.02 | 0.04 |

| EMISSION TOTALS | | | | | |
|--------------------------------------|--------------|-------------|-------------|-------------|-------------|
| Potential Emissions lbs/hr | 6.91 | 0.19 | 0.03 | 0.26 | 0.47 |
| Potential Emissions lbs/day | 165.78 | 4.61 | 0.61 | 6.14 | 11.36 |
| Potential Emissions tons/year | 30.26 | 0.84 | 0.11 | 1.12 | 2.07 |

Methodology:

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

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

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

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

**Appendix A: Emissions Calculations
Natural Gas Combustion Units**

Company Name: Tenneco, Inc.
Source Address: 1493 Gerber St., Ligonier, IN 46767
Permit Number: M113-36801-00077
Plt ID: 113-00077
Reviewer: Kelsey Bonhivert
Date: February 11, 2016

| Heat Input Capacity MMBtu/hr | Potential Throughput MMCF/yr | Emission Unit ID |
|---------------------------------|---------------------------------|------------------------------|
| 0.090 | 0.79 | SH-1 (Break Room Space Heat) |
| 0.060 | 0.53 | SH-2 (Office Space Heat) |
| 0.300 | 2.63 | SH-3 (N. Manufacturing Heat) |
| 0.400 | 3.50 | SH-4 (N. Manufacturing Heat) |
| 0.580 | 5.08 | SH-5 (W. Manufacturing Heat) |
| 1.43 | 12.53 | |

| Emission Factor in lb/MMCF | Pollutant | | | | | | |
|-------------------------------|-----------|-------|---------------|-------|---------------------------|-------|------|
| | PM* | PM10* | direct PM2.5* | SO2 | NOx 100 **see below | VOC | CO |
| Potential Emission in tons/yr | 0.012 | 0.048 | 0.05 | 0.004 | 0.63 | 0.034 | 0.53 |

*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/1,000 MMBtu
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Hazardous Air Pollutant Emissions

| Emission Factor in lb/MMcf | HAPs - Organics | | | | |
|-------------------------------|--------------------|----------------------------|-------------------------|-------------------|--------------------|
| | Benzene 2.1E-03 | Dichlorobenzene 1.2E-03 | Formaldehyde 7.5E-02 | Hexane 1.8E+00 | Toluene 3.4E-03 |
| Potential Emission in tons/yr | 1.3E-05 | 7.5E-06 | 4.7E-04 | 0.011 | 2.1E-05 |

| Emission Factor in lb/MMcf | HAPs - Metals | | | | |
|-------------------------------|-----------------|--------------------|---------------------|----------------------|-------------------|
| | Lead 5.0E-04 | Cadmium 1.1E-03 | Chromium 1.4E-03 | Manganese 3.8E-04 | Nickel 2.1E-03 |
| Potential Emission in tons/yr | 3.1E-06 | 6.9E-06 | 8.8E-06 | 2.4E-06 | 1.3E-05 |

Combined HAPs: 0.012

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

Greenhouse Gas Emissions

| Emission Factor in lb/MMcf | Greenhouse Gas | | |
|---------------------------------------|----------------|------------|------------|
| | CO2 120,000 | CH4 2.3 | N2O 2.2 |
| Potential Emission in tons/yr | 752 | 0.014 | 0.014 |
| Summed Potential Emissions in tons/yr | 752 | | |
| CO2e Total in tons/yr | 756 | | |

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
Fugitive Dust Emissions - Paved Roads

Company Name: Tenneco, Inc.
Source Address: 1493 Gerber St., Ligonier, IN 46767
Permit Number: M113-36801-00077
Pit ID: 113-00077
Reviewer: Kelsey Bonhivert
Date: February 11, 2016

Paved Roads at Industrial Site

The following calculations determine the amount of emissions created by paved roads, based on 8,760 hours of use and AP-42, Ch 13.2.1 (1/2011).

Vehicle Information (provided by source)

| Type | Maximum number of vehicles per day | Number of one-way trips per day per vehicle | Maximum trips per day (trip/day) | Maximum Weight Loaded (tons/trip) | Total Weight driven per day (ton/day) | Maximum one-way distance (feet/trip) | Maximum one-way distance (mi/trip) | Maximum one-way miles (miles/day) | Maximum one-way miles (miles/yr) |
|----------------------------|------------------------------------|---|----------------------------------|-----------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-----------------------------------|----------------------------------|
| Inbound Delivery Vehicles | 14.0 | 1.0 | 14.0 | 8.6 | 121.1 | 200 | 0.038 | 0.5 | 193.6 |
| Outbound Delivery Vehicles | 14.0 | 1.0 | 14.0 | 10.3 | 143.5 | 200 | 0.038 | 0.5 | 193.6 |
| Total | | | 28.0 | | 264.6 | | | 1.1 | 387.1 |

Average Vehicle Weight Per Trip = $\frac{9.4}{0.04}$ tons/trip
Average Miles Per Trip = $\frac{9.4}{0.04}$ miles/trip

Unmitigated Emission Factor, Ef = $[k * (sL)^{0.91} * (W)^{1.02}]$ (Equation 1 from AP-42 13.2.1)

| | PM | PM10 | PM2.5 | |
|-----------|-------|--------|---------|---|
| where k = | 0.011 | 0.0022 | 0.00054 | lb/VMT = particle size multiplier (AP-42 Table 13.2.1-1) |
| W = | 9.4 | 9.4 | 9.4 | tons = average vehicle weight (provided by source) |
| sL = | 9.7 | 9.7 | 9.7 | g/m ² = silt loading value for paved roads at iron and steel production facilities - Table 13.2.1-3) |

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor, Eext = $E * [1 - (p/4N)]$ (Equation 2 from AP-42 13.2.1)

Mitigated Emission Factor, Eext = $\frac{Ef * [1 - (p/4N)]}{N}$
where p = $\frac{125}{365}$ days of rain greater than or equal to 0.01 inches (see Fig. 13.2.1-2)
N = 365 days per year

| | PM | PM10 | PM2.5 | |
|-----------------------------------|-------|-------|--------|---------|
| Unmitigated Emission Factor, Ef = | 0.859 | 0.172 | 0.0422 | lb/mile |
| Mitigated Emission Factor, Eext = | 0.786 | 0.157 | 0.0386 | lb/mile |

| Process | Unmitigated PTE of PM (tons/yr) | Unmitigated PTE of PM10 (tons/yr) | Unmitigated PTE of PM2.5 (tons/yr) | Mitigated PTE of PM (tons/yr) | Mitigated PTE of PM10 (tons/yr) | Mitigated PTE of PM2.5 (tons/yr) |
|----------------------------|---------------------------------|-----------------------------------|------------------------------------|-------------------------------|---------------------------------|----------------------------------|
| Inbound Delivery Vehicles | 0.08 | 0.02 | 0.00 | 0.08 | 0.02 | 0.00 |
| Outbound Delivery Vehicles | 0.08 | 0.02 | 0.00 | 0.08 | 0.02 | 0.00 |
| Totals: | 0.17 | 0.03 | 0.01 | 0.15 | 0.03 | 0.01 |

Methodology

Total Weight driven per day (ton/day) = [Maximum Weight Loaded (tons/trip)] * [Maximum trips per day (trip/day)]
Maximum one-way distance (mi/trip) = [Maximum one-way distance (feet/trip)] / [5280 ft/mile]
Maximum one-way miles (miles/day) = [Maximum trips per year (trip/day)] * [Maximum one-way distance (mi/trip)]
Average Vehicle Weight Per Trip (ton/trip) = SUM[Total Weight driven per day (ton/day)] / SUM[Maximum trips per day (trip/day)]
Average Miles Per Trip (miles/trip) = SUM[Maximum one-way miles (miles/day)] / SUM[Maximum trips per year (trip/day)]
Unmitigated PTE (tons/yr) = [Maximum one-way miles (miles/yr)] * [Unmitigated Emission Factor (lb/mile)] * (ton/2000 lbs)
Mitigated PTE (tons/yr) = [Maximum one-way miles (miles/yr)] * [Mitigated Emission Factor (lb/mile)] * (ton/2000 lbs)

Abbreviations

PM = Particulate Matter
PM10 = Particulate Matter (<10 um)
PM2.5 = Particle Matter (<2.5 um)
PTE = Potential to Emit

Appendix A: Emission Calculations
Source Wide Cooling Tower Systems

Company Name: Tenneco, Inc.
Source Location: 1490 and 1493 Gerber Street
Permit No.: M113-36801-00077
Reviewer: Kelsey Bonhivert
Date: February 11, 2016

| Process Unit | Recirculation Rate (gpm) | Make-Up Rate (gpm) | PM/PM10/PM2.5 | | | | |
|--|--------------------------|--------------------|-------------------------------|----------------|-------------------------------|-------------------|--------------------|
| | | | Total Dissolved Solids (mg/L) | % Liquid Drift | Emission Factor (lb/1000 gal) | Emissions (lb/hr) | Emissions (ton/yr) |
| Modular Cooling Tower System - 1490 Gerber St. | 1200 | 10 | 2000 | 0.001% | 1.58E-04 | 0.01 | 0.05 |
| Modular Cooling Tower System - 1490 Gerber St. | 375 | 3 | 2000 | 0.001% | 1.58E-04 | 3.59E-03 | 0.02 |
| Modular Cooling Tower System - 1493 Gerber St. | 300 | 2 | 2000 | 0.001% | 1.58E-04 | 2.87E-03 | 0.01 |
| Totals: | | | | | | 0.02 | 0.08 |

Methodology

PM/PM10/PM2.5 Emission Factor (EF) (lb/1000 gal):

$$PM / PM_{10} / PM_{2.5} EF = PM EF_{AP-42} * \frac{TLD_{design}}{TLD_{AP-42}} * \frac{TDS_{future}}{TDS_{AP-42}}$$

Where:

| | | |
|------------------------|--------|-------------------------------|
| EF _{AP-42} : | 0.019 | lb PM/1000 gal circulated |
| TLD _{AP-42} : | 0.02% | % Liquid Drift |
| TDS _{AP-42} : | 12,000 | Total Dissolved Solids (mg/L) |

AP-42 Cooling Tower Emission Factor (Section 13.4, January 1995)



Indiana Department of Environmental Management

We Protect Hoosiers and Our Environment.

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Michael R. Pence
Governor

Carol S. Comer
Commissioner

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

TO: Bob Gamble
Tenneco
1490 Gerber St
Ligonier, IN 46767

DATE: February 25, 2016

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

SUBJECT: Final Decision
MSOP - Administrative Amendment
113 - 36801 - 00077

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:
Peter Keck Compliance Consulting Service
OAQ Permits Branch Interested Parties List

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

Final Applicant Cover letter.dot 2/17/2016

Mail Code 61-53

| | | | | |
|----------------------------|---|---|---|--|
| IDEM Staff | LPOGOST 2/25/2016 Tenneco, Inc. 113 - 36801 - 00077 final) | | Type of Mail: CERTIFICATE OF MAILING ONLY | AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING |
| Name and address of Sender |  | Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204 | | |

| Line | Article Number | Name, Address, Street and Post Office Address | Postage | Handing Charges | Act. Value (If Registered) | Insured Value | Due Send if COD | R.R. Fee | S.D. Fee | S.H. Fee | Rest. Del. Fee | Remarks |
|------|----------------|---|---------|-----------------|----------------------------|---------------|-----------------|----------|----------|----------|----------------|---------|
| 1 | | Bob Gamble Tenneco, Inc. 1490 Gerber St Ligonier IN 46767 (Source CAATS) Via USPS certified mail | | | | | | | | | | |
| 2 | | Noble County Board of Commissioners 101 North Orange Street Albion IN 46701 (Local Official) | | | | | | | | | | |
| 3 | | Noble County Health Department 2090 N. State Rd 9, Suite C Albion IN 46701-9566 (Health Department) | | | | | | | | | | |
| 4 | | Mr. Steve Roosz NISWMD 2320 W 800 S, P.O. Box 370 Ashley IN 46705 (Affected Party) | | | | | | | | | | |
| 5 | | Frederick & Iva Moore 6019 W 650 N Ligonier IN 46767 (Affected Party) | | | | | | | | | | |
| 6 | | Ligonier City Council and Mayors Office 103 West Third Street Ligonier IN 46767 (Local Official) | | | | | | | | | | |
| 7 | | Vibracoustic North America, LP 1492 Gerber Street Ligonier IN 46767 (Affected Party) | | | | | | | | | | |
| 8 | | Supreme Properties North 1491 Gerber Ligonier IN 46767 (Affected Party) | | | | | | | | | | |
| 9 | | Drema Sue Fields 1277 W Perry Ligonier IN 46767 (Affected Party) | | | | | | | | | | |
| 10 | | Peter Keck Compliance Consulting Service 207 Hoosier Dr., Ste. 4 Angola IN 46703 (Consultant) | | | | | | | | | | |
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