



We Protect Hoosiers and Our Environment.

Michael R. Pence Governor

Thomas W. Easterly Commissioner

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

TO: Interested Parties / Applicant

DATE: January 28, 2013

RE: Tenneco, Inc / 113-32606-00077

FROM: Matthew Stuckey, Branch Chief

> Permits Branch Office of Air Quality

Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require 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 of 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 filina:

- the date the document is delivered to the Office of Environmental Adjudication (OEA); (1)
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- The date on which the document is deposited with a private carrier, as shown by receipt issued (3)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:

- the name and address of the person making the request; (1)
- the interest of the person making the request; (2)
- (3)identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- the issues, with particularity, proposed for considerations at any hearing; and (5)
- (6)identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

> **Enclosures** FNPER.dot12/03/07



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Michael R. Pence Governor

Thomas W. Easterly Commissioner

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New Source Construction and 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 construct and 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 2-5.1, 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:	Issuance Date: January 28, 2013
Nathan C. Bell, Section Chief Permits Branch Office of Air Quality	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 and A.2 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

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

The Permittee owns and operates a stationary muffler systems and automotive parts manufacturing source.

Source Addresses: 1490 Gerber Street, Ligonier, Indiana 46767

1493 Gerber Street, Ligonier, Indiana 46767

General Source Phone Number: (260) 894-9400

SIC Code: 3714 (Motor Vehicle Parts and Accessories)

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;

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- (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;
- 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.

1493 Gerber Street Building

- (e) 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.

(f) 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.

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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 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.4 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.5 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.6 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.

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B.7 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.8 Property Rights or Exclusive Privilege

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

B.9 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.10 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.11 Preventive Maintenance Plan [326 IAC 1-6-3]

- 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.

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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.12 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.13 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.14 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:

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- (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.15 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.16 Source Modification Requirement

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

B.17 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:

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- (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.18 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.19 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.20 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.

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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.

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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.

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(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.

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(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;
 - 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

- 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

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(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

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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.

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Tenneco, Inc.

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

MINOR SOURCE OPERATING PERMIT ANNUAL NOTIFICATION

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

Company Name:	Tenneco, Inc.	
Address(es):	1490 Gerber Street and 1493 (Gerber Street
City:	Ligonier, Indiana 46767	
Phone #:	(260) 894-9400	
MSOP #:	M113-32606-00077	
I hereby certify that Ten I hereby certify that Ten	neco, Inc. is :	 still in operation. no longer in operation. in compliance with the requirements of MSOP M113-32606-00077. not in compliance with the requirements of MSOP M113-32606-00077.
Authorized Individua	l (typed):	
Title:		
Signature:		
Date:		
		source is not in compliance, provide a narrative nce and the date compliance was, or will be
Noncompliance:		

Tenneco, Inc. Ligonier, Indiana Permit Reviewer: Jason R. Krawczyk

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 u and to qual	sed to report malfunction ify for the exemption und		326 IAC 1-6	
THIS FACILITY MEETS THE APPLICABILITY REC PARTICULATE MATTER?, 25 TONS/YEAR 25 TONS/YEAR VOC?, 25 TONS/YEAR HY?, 25 TONS/YEAR REDUCED SULFUR CO CARBON MONOXIDE?, 10 TONS/YEAR AI COMBINATION HAZARDOUS AIR POLLUTANT? ELEMENTAL LEAD?, OR IS A SOURCE LISMALFUNCTIONING CONTROL EQUIPMENT OR LIMITATION	R SULFUR DIOXIDE ? /DROGEN SULFIDE ? /DROUNDS ?, 25 TO NY SINGLE HAZARDOUS ?, 1 TON/YEAR LEAL STED UNDER 326 IAC 2-5	, 25 TONS/YEAR NIT , 25 TONS/YEAR TO ONS/YEAR FLUORIDE AIR POLLUTANT ? O OR LEAD COMPOUN 5.1-3(2) ?	TROGEN OXIE TAL REDUCE S ?, 100, 25 TONS/ NDS MEASUR SIONS FROM	DES?, ED SULFUR D TONS/YEAR YEAR ANY ED AS
THIS MALFUNCTION RESULTED IN A VIOLATIO PERMIT LIMIT OF	N OF: 326 IAC O	R, PERMIT CONDITIO	N # <i>F</i>	AND/OR
THIS INCIDENT MEETS THE DEFINITION OF "MA	ALFUNCTION" AS LISTED	ON REVERSE SIDE 3	P Y N	l
THIS MALFUNCTION IS OR WILL BE LONGER TO	HAN THE ONE (1) HOUR	REPORTING REQUIR	EMENT? Y	/ N
COMPANY: LOCATION: (CITY AND COUNTY) PERMIT NO AFS PLANT ID:		PHONE NO. ()	
LOCATION: (CITY AND COUNTY)	ΛΕς D(NNT ID:	INICD	
CONTROL/PROCESS DEVICE WHICH MALFUNCT	IONED AND REASON:	лит ID	INSF	
DATE/TIME MALFUNCTION STARTED:/ ESTIMATED HOURS OF OPERATION WITH MALF				
DATE/TIME CONTROL EQUIPMENT BACK-IN SE	:RVICE// 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 SHUTDOV	VN DURING REPAIRS:			
CONTINUED OPERATION REQUIRED TO PROVID CONTINUED OPERATION NECESSARY TO PREV CONTINUED OPERATION NECESSARY TO PREV INTERIM CONTROL MEASURES: (IF APPLICABLE	ENT INJURY TO PERSON ENT SEVERE DAMAGE T	IS: O EQUIPMENT:		
MALFUNCTION REPORTED BY:(SIGNATURE IF FAXED)	тп			-
MALFUNCTION RECORDED BY:*SEE PAGE 2	DATE:	TIME:		

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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:

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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 , being duly sworn upon my oath, depose and say: (Name of the Authorized Representative) 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 _____ (Company Name) 3. ___, I have personal By virtue of my position with ____ (Company Name) knowledge of the representations contained in this affidavit and am authorized to make these representations on behalf of _____ (Company Name) I hereby certify that Tenneco, Inc. 1490 Gerber Street and 1493 Gerber Street, Ligonier, Indiana 46767, 4. completed construction of the muffler systems and automotive parts manufacturing source on in conformity with the requirements and intent of the construction permit 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 Permittee, please cross out the following statement if it does not apply: Additional (operations/facilities) 5. 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 STATE OF INDIANA))SS COUNTY OF _____ County and State of Indiana Subscribed and sworn to me, a notary public in and for _____ day of ______, 20 ____. My Commission expires: ____

Signature____

Name____

_____(typed or printed)

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for a Registration Transitioning to a New Source Construction and Minor Source Operating Permit (MSOP)

Source Description and Location

Source Name: Tenneco, Inc.

Source Location(s): 1490 Gerber Street, Ligonier, IN 46767 1493 Gerber Street, Ligonier, IN 46767

County: Noble

SIC Code: 3714 (Motor Vehicle Parts and Accessories)

Operation Permit No.: M113-32606-00077
Permit Reviewer: Jason R. Krawczyk

On December 7, 2012, the Office of Air Quality (OAQ) received an application from Tenneco, Inc. related to the construction and operation of new emission units at an existing stationary muffler and automotive parts manufacturing source and transition from a Registration to a New Source Construction and MSOP.

Source Definition

Tenneco Inc. has two plants in Ligonier, Indiana. One plant is located at 1490 Gerber Street and the other plant is located at 1493 Gerber Street. Tenneco purchased the 1493 plant from another company. The two plants are located on properties that are less than 1000 feet apart. IDEM, OAQ has examined whether these plants are part of the same source. The term "source" is defined at 326 IAC 1-2-73. In order for two plants to be considered one source, they must meet all three of the following criteria:

- (1) the plants must be under common ownership or common control;
- (2) the plants must have the same two-digit Standard Industrial Classification (SIC) Code or one must serve as a support facility for another; and,
- (3) the plants must be located on contiguous or adjacent properties.

The two plants are owned by Tenneco, Inc. Therefore both plants are under common ownership and the first part of the source definition is met.

The SIC Code Manual of 1987 sets out how to determine the proper SIC Code for each type of business. More information about SIC Codes is available at http://www.osha.gov/pls/imis/sic_manual.html on the Internet. The SIC Code is determined by looking at the principal product or activity of each plant. The plants have the same two-digit SIC Code, 37, for the major group Transportation Equipment.

A plant is a support facility to another plant if it dedicates 50% or more of its output to the other plant. The 1490 plant will dedicate up to 20% of its output, muffler tubes, to the 1493 plant. The 1493 plant will send none of its output to the 1490 plant. Therefore there is no support relationship. However, since the plants have the same two-digit SIC Code the second part of the source definition is met.

The last part of the definition is whether the plants are on the same, contiguous or adjacent properties. The plants are not located on the same or contiguous properties. Therefore IDEM must determine if the plants are located on adjacent properties.

The term "adjacent" is not defined in Indiana's rules. IDEM's Nonrule Policy Document, NPD Air-005 is guidance for applying the definition of "major source" in 326 IAC 2-1-7(22). Since the definitions of

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"source" and "major source" are nearly identical regarding adjacent properties, NPD Air-005 is helpful in apply the definition of "source". NPD Air-005 adds the following guidance:

- properties that actually abut at any point would satisfy the requirement of contiguous or adjacent property.
- properties that are separated by a public road or public property would satisfy this requirement, absent special circumstances.
- other scenarios would be examined on an individual basis with the focus on the distance between the activities and the relationship between the activities.

The U.S. EPA has a similar view on how to interpret the term "adjacent" when defining a source. Two U.S. EPA letters; the May 21, 1988 letter from U.S. EPA Region 8 to the Utah Division of Air Quality, and the U.S. EPA Region 5 letter dated October 18, 2010 to Scott Huber at Summit Petroleum Corporation, discuss the term "adjacent" as it is used in making major source determinations. These letters are not binding on IDEM but they are persuasive for two reasons. The letters follow the guidance in NPD Air-005 that IDEM will examine both the distance between the sources and their relationship and, secondly, they illustrate a longstanding U.S. EPA analysis used to determine if two sources are "adjacent" going back to the preamble to the 1980 NSR program definition of "major source". U.S. EPA's consistent approach is that any evaluation of what is "adjacent" must relate to the guiding principal of a common sense notion of "source".

All IDEM evaluations of adjacency are done on a case-by-case basis looking at the specific factors for the plants involved. In addition to determining the distance between the plant properties, IDEM asks:

- (1) Are materials routinely transferred between the plants?
- (2) Do managers or other workers frequently shuttle back and forth to be involved actively in the plants?
- (3) Is the production process itself split in any way between the plants?

These questions focus on whether the separate sources are so interrelated that they are functioning as one plant and whether the distance between them is small enough that it enables them to operate as one plant. U.S. EPA Assistant Administrator Gina McCarty issued a memorandum on September 22, 2009 that confirmed U.S. EPA's view that each source determination must be done on a case-by-case basis and stated that after that analysis is completed it may be that physical proximity serves as an overwhelming factor in determining if the plants are adjacent.

The 1490 plant property is less than 1000 feet from the 1493 plant property. There is no dedicated physical connection between the two plants such as a dedicated rail spur, pipeline or private road. The plants do not share production workers. The plants do have the same manager. The production process is split between the two plants, as the 1490 plant will send up to 20% of its muffler tubes to the 1493 plant. The tubes will be transported by trucks owned and operated by other companies. The 1493 plant will use the tubes to manufacture muffler assemblies. The 1493 plant gets all of its muffler tubes from the 1490 plant. Muffler tubes make up half of each muffler assembly. In addition, the two plants are very close to each other. For these reasons IDEM, OAQ finds that the 1490 plant and the 1493 plant are located on adjacent properties, meeting the third part of the source definition.

Since the plants meet all three elements of the source definition. IDEM, OAQ finds that the plants are part of the same source.

Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

- (a) Registration No. 113-14290-00077, issued on May 10, 2001;
- (b) First Registration Revision No. 113-22418-00077, issued on February 2, 2006;

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- (c) First Registration Notice-Only Change No. 113-26004-00077, issued on March 3, 2008;
- (d) Second Registration Revision No. 113-27888-00077, issued May 29, 2009; and
- (e) Second Registration Notice-Only Change No. 113-29736-00077, issued October 19, 2010.

Due to this application, the source is transitioning from a Registration to a MSOP.

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 June 15, 2004, for the 8-hour ozone standard. ¹
PM ₁₀	Unclassifiable effective November 15, 1990.
NO ₂	Cannot be classified or better than national standards.
Pb	Not designated.
¹ Unclassifiable	or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective

'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 PM2.5.

(a) Ozone Standards

Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) 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 NOx 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 NOx 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 $PM_{2.5}$. On May 8, 2008 U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for $PM_{2.5}$ emissions. These rules became effective on July 15, 2008. On May 4, 2011 the air pollution control board issued an emergency rule establishing the direct $PM_{2.5}$ significant level at ten (10) tons per year. This rule became effective, June 28, 2011. Therefore, direct $PM_{2.5}$ and SO_2 emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.

(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 criteria 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.

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Tenneco, Inc. Ligonier, Indiana Permit Reviewer: Jason R. Krawczyk

Background and Description of New Source Construction

The Office of Air Quality (OAQ) has reviewed an application, submitted by Tenneco, Inc. on December 7, 2012, relating to the construction and operation of new emission units at an existing stationary muffler systems and automotive parts manufacturing source.

The source consists of the following permitted emission units:

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.
- (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.

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The following is a list of the new emission unit and pollution control devices:

1493 Gerber Street Building

- (a) 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.

(b) 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.

Enforcement Issues

There are no pending enforcement actions related to this source.

Emission Calculations

See Appendix A of this TSD for detailed emission calculations.

Permit Level Determination - MSOP

The following table reflects the unlimited potential to emit (PTE) of the entire source before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	Potential To Emit (tons/year)
PM	89.10
PM10 ⁽¹⁾	89.11
PM2.5	89.02
SO_2	0.05
NO_x	7.73
VOC	0.43
CO	6.50
GHGs as CO₂e	9,336

⁽¹⁾ Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant".

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Tenneco, Inc. Ligonier, Indiana Permit Reviewer: Jason R. Krawczyk

HAPs	Potential To Emit (tons/year)
Highest Single HAP - Chromium	3.23
Combined HAPs	6.14

- (a) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) of PM, PM10, and PM2.5 are each less than one hundred (100) tons per year, but greater than or equal to twenty-five (25) tons per year. The PTE of all other regulated criteria pollutants are less than twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-6.1. A Minor Source Operating Permit (MSOP) will be issued.
- (b) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) of any single HAP is less than ten (10) tons per year and the PTE of a combination of HAPs is 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.
- (c) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) greenhouse gases (GHGs) is less than the Title V subject to regulation threshold of one hundred thousand (100,000) tons of CO_2 equivalent emissions (CO_2 e) per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.

Federal Rule Applicability Determination

New Source Performance Standards (NSPS)

- (a) The requirements of the New Source Performance Standard for Metallic Mineral Processing Plants, 40 CFR 60, Subpart LL (326 IAC 12), are not included in the permit, since this source is not a metallic mineral processing plant, as defined in 40 CFR 60.381.
- (b) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (c) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Primary Nonferrous Metals Area Sources Zinc, Cadmium, and Beryllium, 40 CFR 63, Subpart GGGGGG, are not included in the permit, since the source is not a primary zinc production facility or primary beryllium production facility, as defined in 40 CFR 63.11167.
- (d) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Secondary Nonferrous Metals Area Sources, 40 CFR 63, Subpart TTTTTT, are not included in the permit, since the source is not a secondary nonferrous metals processing facility, as defined in 40 CFR 63.11472.
- (e) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Nine Metal Fabrication and Finishing Source Categories, 40 CFR 63, Subpart XXXXXX, are not included in the permit, since the source is not primarily engaged in operations which are classified in one of the nine source categories listed in this NESHAP.
- (f) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in the permit.

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Tenneco, Inc. Ligonier, Indiana

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Compliance Assurance Monitoring (CAM)

(g) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is not included in the permit, because the unlimited potential to emit of the source is less than the Title V major source thresholds and the source is not required to obtain a Part 70 or Part 71 permit.

State Rule Applicability Determination

The following state rules are applicable to the source:

- (a) 326 IAC 2-6.1 (Minor Source Operating Permits (MSOP))
 MSOP applicability is discussed under the Permit Level Determination MSOP section above.
- (b) 326 IAC 2-2 (Prevention of Significant Deterioration(PSD)) This source is not a major stationary source, under PSD (326 IAC 2-2), because the potential to emit of all attainment regulated criteria pollutants are less than 250 tons per year, the potential to emit greenhouse gases (GHGs) is less than 100,000 tons of CO₂e per year, and this source is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(ff)(1). Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.
- (c) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))

 The potential to emit of any single HAP is less than ten (10) tons per year and the potential to emit of a combination of HAPs is 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 2-4.1.
- (d) 326 IAC 2-6 (Emission Reporting)
 Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is not located in Lake, Porter, or LaPorte County, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.
- (e) 326 IAC 5-1 (Opacity Limitations)
 Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:
 - (1) 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.
 - (2) 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.
- (f) 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 requirements of 326 IAC 6-5 are not applicable to the source because the potential fugitive particulate emissions are less than 25 tons per year.

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(h) 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
Each emission unit at this source is not subject to the requirements of 326 IAC 8-1-6, since the unlimited VOC potential emissions from each emission unit is less than twenty-five (25) tons per year.

- (i) There are no other 326 IAC 8 Rules that are applicable to the emission units operating at this source.
- (j) 326 IAC 12 (New Source Performance Standards) See Federal Rule Applicability Section of this TSD.
- (k) 326 IAC 20 (Hazardous Air Pollutants)See Federal Rule Applicability Section of this TSD.

Semi-Automatic Welding Units, Robotic Welding Units, Hand Weld Stations, Stick Welding Units

(I) 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)

1490 Gerber Street Building

- (1) Pursuant to 326 IAC 6-3-1(b)(9), each semi-automatic MIG welding stations is exempt from the requirements of 326 IAC 6-3, because each has the potential to consume welding wire of less than six hundred twenty-five (625) pounds per day.
- (2) Pursuant to 326 IAC 6-3-1(b)(9), each of the robotic welding stations is exempt from the requirements of 326 IAC 6-3, because each has the potential to consume welding wire of less than six hundred twenty-five (625) pounds per day.
- (3) Pursuant to Pursuant to 326 IAC 6-3-1(b)(9), each of the hand welding stations is exempt from the requirements of 326 IAC 6-3, because each has the potential to consume welding wire of less than six hundred twenty-five (625) pounds per day.
- (4) Pursuant to 326 IAC 6-3-1(b)(9), each of the stick welding units is exempt from the requirements of 326 IAC 6-3, because each has the potential to consume welding wire of less than six hundred twenty-five (625) pounds per day.

1493 Gerber Street Building

- (5) Pursuant to 326 IAC 6-3-1(b)(9), each of the 4 meter MIG robotic welding cells is exempt from the requirements of 326 IAC 6-3, because each cell has the potential to consume welding wire of less than six hundred twenty-five (625) pounds per day.
- (6) Pursuant to 326 IAC 6-3-1(b)(9), each of the 5 meter MIG robotic welding cells is exempt from the requirements of 326 IAC 6-3, because each cell has the potential to consume welding wire of less than six hundred twenty-five (625) pounds per day.
- (7) Pursuant to Pursuant to 326 IAC 6-3-1(b)(9), each of the hand welding stations is exempt from the requirements of 326 IAC 6-3, because each has the potential to consume welding wire of less than six hundred twenty-five (625) pounds per day.

Resonator Department (3 Meter Robot, Melton Welder, and Accubilt Welder)

- (m) 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)
 - (1) Pursuant to 326 IAC 6-3-1(b)(9), each welding unit comprising the Resonator Department is exempt from the requirements of 326 IAC 6-3, because each has the potential to consume welding wire of less than six hundred twenty-five (625) pounds per day.

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Tube Mill Induction Welding

(n) 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-1(b)(14), the tube mill induction welding station is exempt from the requirements of 326 IAC 6-3, because it has the potential to emit particulate matter emissions less than five hundred fifty-one thousandths (0.551) pound per hour.

Plasma Welding

(o) 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-1(b)(14), the plasma welding stations are exempt from the requirements of 326 IAC 6-3, because each has the potential to emit particulate matter emissions less than five hundred fifty-one thousandths (0.551) pound per hour.

Plasma Cutting

(p) 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes) Pursuant to 326 IAC 6-3-1(b)(14), the plasma cutters are exempt from the requirements of 326 IAC 6-3, because each has the potential to emit particulate matter emissions less than five hundred fifty-one thousandths (0.551) pound per hour.

Natural Gas-fired Units

- (q) 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)
 The natural gas-fired emission units are exempt from the requirements of 326 IAC 6-3, because, pursuant to 326 IAC 1-2-59, liquid and gaseous fuels and combustion air are not considered as part of the process weight. In addition, pursuant to 326 IAC 6-3-1(b)(14), the natural gas-fired emission units at this source are also exempt from the requirements of 326 IAC 6-3, because each has potential particulate emissions less than five hundred fifty one thousandths (0.551) pound per hour.
- (r) 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)

 Pursuant to 326 IAC 7-1.1-1, the natural gas-fired emission units at this source are not subject to the requirements of 326 IAC 7-1.1, since each has unlimited sulfur dioxide (SO₂) emissions less than twenty-five (25) tons per year and ten (10) pounds per hour respectively.

Compliance Determination, Monitoring and Testing Requirements

- (a) There are no compliance determination and/or monitoring requirements applicable to this source.
- (b) There are no testing requirements applicable to this source.

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 December 7, 2012.

The construction and operation of this source shall be subject to the conditions of the attached proposed New Source Construction and MSOP No. M113-32606-00077. The staff recommends to the Commissioner that this New Source Construction and MSOP be approved.

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Tenneco, Inc. Ligonier, Indiana Permit Reviewer: Jason R. Krawczyk

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Jason R. Krawczyk 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) 324-5174 or toll free at 1-800-451-6027 extension 4-5174.
- (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's Guide for Citizen Participation and Permit Guide on the Internet at: www.in.gov/idem

Appendix A: Emissions Calculations Source-Wide Emission Summary

Company Name: Tenneco, Inc.

	Potential to Emit Before Control									
D									Highest	
Process								CO2e as	Single HAP	Combined
	PM	PM10	PM2.5	VOC	NOx	SO2	CO	GHGs	(Chromium)	HAPs
Plant 1 - 1490 Gerber Street										
Emission Units										
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	-	-	-	-	-	-	-
Total:	58.68	58.77	58.71	0.39	7.11	0.04	5.97	8,580	2.11	4.06
Plant 2 - 1493 Gerber Street										
Emission Units										
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	-	-	-	-	-	-	-
Total:	30.42	30.33	30.31	0.03	0.63	0.00	0.53	756	1.12	2.08
Combined Total	89.10	89.11	89.02	0.43	7.73	0.05	6.50	9,336	3.23	6.14

Appendix A: Emissions Calculations 1490 Gerber St. Welding/Cutting Units Page 2 of 7 TSD App A

Company Name: Tenneco, Inc.

Source Address: 1490 Gerber St., Ligonier, IN 46767

 Permit Number:
 M113-32526-00077

 Plt ID:
 113-00077

 Reviewer:
 Jason R. Krawczyk

 Date:
 November 26, 2012

PROCESS	Number of	Max. electrode		EMISSION FACTORS* EMISS					SSIONS		HAPS	
	Stations	consumption per		(lb pollutant/lb electrode)			(lbs/hr)			(lbs/hr)		
WELDING		station (lbs/hr)		PM = PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr	
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										
	Number of	Max. Metal	Max. Metal	E	MISSION F	ACTORS			EMI	SSIONS		HAPS
	Stations	Thickness	Cutting Rate	(lb pollutar	nt/1,000 inc	hes cut, 1" t	hick)**			(lbs/hr)		(lbs/hr)
FLAME CUTTING		Cut (in.)	(in./minute)	PM = PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr	
3 plasma cutters	3	0.375	150	0.0039				0.105	0.000	0.000	0.000	0.000
EMISSION TOTALS												
Detential Environmenth of the								40.00	0.07	0.05	0.40	0.00
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 calculting the emissions.

Using AWS average values: $(0.25 \text{ g/min})/(3.6 \text{ m/min}) \times (0.0022 \text{ lb/g})/(39.37 \text{ in./m}) \times (1,000 \text{ in.}) = 0.0039 \text{ lb/1,000 in.} \text{ cut, 8 mm thick}$

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

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: M113-32526-00077 Plt ID: 113-00077

Reviewer: Jason R. Krawczyk Date: November 26, 2012

Heat Input Capacity MMBtu/hr 12.375

Potential Throughput MMCF/yr 108.41

Emission Unit ID

Three (3) air make-up units @ 4.125 MMBtu/hr, each One (1) air make-up unit @3.85 MMBtu/hr

33.73

16.23	142.13
 -	·

		Pollutant						
Emission Factor in lb/MMCF	PM* 1.9	PM10* 7.6	direct PM2.5* 7.6	SO2 0.6	NOx 100 **see below	VOC 5.5	CO 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.

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

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

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

		Greenhouse Gas	
Emission Factor in lb/MMcf	CO2 120,000	CH4 2.3	N2O 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	

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).

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

Appendix A: Emission Calculations Fugitive Dust Emissions - Paved Roads

Company Name: Tenneco, Inc.

Source Address: 1490 Gerber St., Ligonier, IN 46767
Permit Number: M113-32526-00077

Plt ID: 113-00077 Reviewer: Jason R. Krawczyk Date: November 26, 2012

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 Informtation (provided by source)

	Maximum	Number of		Maximum		Maximum			
	number of	one-way trips	Maximum trips	Weight	Total Weight	one-way	Maximum one-	Maximum one-	Maximum one-
	vehicles per	per day per	per day	Loaded	driven per day	distance	way distance	way miles	way miles
Туре	day	vehicle	(trip/day)	(tons/trip)	(ton/day)	(feet/trip)	(mi/trip)	(miles/day)	(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	24.0		663.0			1.2	470.1

Average Vehicle Weight Per Trip = 19.5 tons/trip Average Miles Per Trip = 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	
vhere 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 ste

or 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 = $Ef^*[1 - (p/4N)]$ where p = 125N = 365 days of rain greater than or equal to 0.01 inches (see Fig. 13.2.1-2) days per year

•				
	PM	PM10	PM2.5	1
Unmitigated Emission Factor, Ef =	1.797	0.359	0.0882	lb/mile
Mitigated Emission Factor, Eext =	1.643	0.329	0.0807	lb/mile

	Unmitigated		Unmitigated	Mitigated	Mitigated PTE	
	PTE of PM	PTE of PM10	PTE of PM2.5	PTE of PM	of PM10	PM2.5
Process	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(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
	0.42	0.00	0.03	0.20	0.09	0.02

Methodology Total Weight driven per day (ton/day) Maximum one-way distance (mi/trip) Maximum one-way miles (miles/day) Average Vehicle Weight Per Trip (ton/trip) Average Miles Per Trip (miles/trip) Unmitigated PTE (tons/yr)
Mitigated PTE (tons/yr)

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

Page 5 of 7 TSD App A

Company Name: Tenneco, Inc.

Source Address: 1493 Gerber St., Ligonier, IN 46767

Permit Number: M113-32526-00077

Plt ID: 113-00077 Reviewer: Jason R. Krawczyk

Date: November 26, 2012

PROCESS	Number of	Max. electrode	EMISSION FACTORS*			EMISSIONS				HAPS	
	Stations	consumption per		(lb pollutant/	lb electrode)			(lbs/hr)			
WELDING		station (lbs/hr)	PM = PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr	
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											ı
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, Ibs/day = emissions, Ibs/hr x 24 hrs/day
Emissions, tons/yr = emissions, Ib/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: M113-32526-00077 Plt ID: 113-00077

Reviewer: Jason R. Krawczyk Date: November 26, 2012

Heat Input Capacity	Potential Throughput	Emission Unit
MMBtu/hr	MMCF/yr	<u>ID</u>
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	

		Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO	
Emission Factor in lb/MMCF	1.9	7.6	7.6	0.6	100	5.5	84	
					**see below			
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.

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

Hazardoue Air Pollutant Emissions

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

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

		Greenhouse Gas				
Emission Factor in lb/MMcf	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).

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

Appendix A: Emission Calculations Fugitive Dust Emissions - Paved Roads

Company Name: Tenneco, Inc.

Source Address: 1493 Gerber St., Ligonier, IN 46767
Permit Number: M113-32526-00077

Plt ID: 113-00077 Reviewer: Jason R. Krawczyk Date: November 26, 2012

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 Informtation (provided by source)

	Maximum	Number of		Maximum		Maximum			
	number of	one-way trips	Maximum trips	Weight	Total Weight	one-way	Maximum one-	Maximum one-	Maximum one-
	vehicles per	per day per	per day	Loaded	driven per day	distance	way distance	way miles	way miles
Туре	day	vehicle	(trip/day)	(tons/trip)	(ton/day)	(feet/trip)	(mi/trip)	(miles/day)	(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	20.0		264.6			1.1	207.1

Average Vehicle Weight Per Trip = tons/trip Average Miles Per Trip = 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 payed roads at iron and ste

tons = average vehicle weight (provided by source) 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 = Ef * [1 - (p/4N)]

days of rain greater than or equal to 0.01 inches (see Fig. 13.2.1-2) where p

	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

	Unmitigated	Unmitigated PTE of PM10	Unmitigated PTE of PM2.5	Mitigated	Mitigated PTE of PM10	Mitigated PTE of PM2.5
Process	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(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
	0.17	0.03	0.01	0.15	0.03	0.01

Methodology Total Weight driven per day (ton/day) Maximum one-way distance (mi/trip) Maximum one-way miles (miles/day) Average Vehicle Weight Per Trip (ton/trip) Average Miles Per Trip (miles/trip) Unmitigated PTE (tons/yr)
Mitigated PTE (tons/yr)

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

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT



We Protect Hoosiers and Our Environment.

Michael R. Pence Governor

Thomas W. Easterly Commissioner

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

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

TO: **Doug Bonecutter**

Tenneco, Inc 1490 Gerber St Ligonier, IN 46767

DATE: January 28, 2013

FROM: Matt Stuckey, Branch Chief

> Permits Branch Office of Air Quality

SUBJECT: **Final Decision**

Minor Source Operating Permit

113-32606-00077

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, Inc) **OAQ Permits Branch Interested Parties List**

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

Final Applicant Cover letter.dot 11/30/07







We Protect Hoosiers and Our Environment.

Michael R. Pence Governor

Thomas W. Easterly Commissioner

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

January 28, 2013

TO: Ligonier Public Library

From: Matthew Stuckey, Branch Chief

> Permits Branch Office of Air Quality

Subject: Important Information for Display Regarding a Final Determination

> **Applicant Name:** Tenneco, Inc **Permit Number:** 113-32606-00077

You previously received information to make available to the public during the public comment period of a draft permit. Enclosed is a copy of the final decision and supporting materials for the same project. Please place the enclosed information along with the information you previously received. To ensure that your patrons have ample opportunity to review the enclosed permit, we ask that you retain this document for at least 60 days.

The applicant is responsible for placing a copy of the application in your library. If the permit application is not on file, or if you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185.

> **Enclosures** Final Library.dot 11/30/07



Mail Code 61-53

IDEM Staff	MIDENNEY 1/28	3/2013		
	Tenneco, Inc. 11	3-32606-00077 (final)		AFFIX STAMP
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Sender		Office of Air Quality – Permits Branch	CERTIFICATE OF	CERTIFICATE
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											Remarks
1		Doug Bonecutter Tenneco, Inc. 1490 Gerber St Ligonier IN 46767 (Source CAATS) via	a confirm deli	very							
2		Mr. Peter Keck Compliance Consulting Service, Inc. 207 Hoosier Drive, Suite 4 Angola IN 46703 (Consultant)									
3		Noble County Board of Commissioners 101 North Orange Street Albion IN 46701 (Local Official)									
4		Noble County Health Department 2090 N. State Rd 9, Suite C Albion IN 46701-9566 (Health Department)									
5		Mr. Steve Christman NISWMD 2320 W 800 S, P.O. Box 370 Ashley IN 46705 (Affected Party)									
6		Frederick & Iva Moore 6019 W 650 N Ligonier IN 46767 (Affected Party)									
7		Ligonier City Council and Mayors Office 103 West Third Street Ligonier IN 46767 (Local Official)									
8		Ligonier Public Library 300 S Main St Ligonier IN 46767-1812 (Library)									
9		Ram Associates of Ohio 1494 Gerber Street Ligonier IN 46767 (Affected Party)									
10		Vibracoustic North America, LP 1492 Gerber Street Ligonier IN 46767 (Affected Party)									
11		Supreme Properties North 1491 Gerber Ligonier IN 46767 (Affected Party)									
12		Drema Sue Fields 1277 W Perry Ligonier IN 46767 (Affected Party)									
13											
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