



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

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

**Michael R. Pence**  
Governor

**Thomas W. Easterly**  
Commissioner

TO: Interested Parties / Applicant

DATE: March 13, 2014

RE: General Cable Industries, Inc./053-33909-00001

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 filing:

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

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

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

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

Enclosures  
FNPER.dot 6/13/13



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**Minor Source Operating Permit Renewal  
OFFICE OF AIR QUALITY**

**General Cable Industries, Inc.  
440 East 8th Street  
Marion, Indiana 46953**

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

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

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

Operation Permit No.: M053-33909-00001	
Issued by:  Jason R. Krawczyk, Section Chief Permits Branch Office of Air Quality	Issuance Date: March 13, 2014  Expiration Date: March 13, 2024

## TABLE OF CONTENTS

<b>A. SOURCE SUMMARY</b> .....	<b>4</b>
A.1 General Information [326 IAC 2-5.1-3(c)][326 IAC 2-6.1-4(a)]	
A.2 Emission Units and Pollution Control Equipment Summary	
<b>B. GENERAL CONDITIONS</b> .....	<b>6</b>
B.1 Definitions [326 IAC 2-1.1-1]	
B.2 Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]	
B.3 Term of Conditions [326 IAC 2-1.1-9.5]	
B.4 Enforceability	
B.5 Severability	
B.6 Property Rights or Exclusive Privilege	
B.7 Duty to Provide Information	
B.8 Annual Notification [326 IAC 2-6.1-5(a)(5)]	
B.9 Preventive Maintenance Plan [326 IAC 1-6-3]	
B.10 Prior Permits Superseded [326 IAC 2-1.1-9.5]	
B.11 Termination of Right to Operate [326 IAC 2-6.1-7(a)]	
B.12 Permit Renewal [326 IAC 2-6.1-7]	
B.13 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]	
B.14 Source Modification Requirement	
B.15 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)][326 IAC 2-6.1-5(a)(4)][IC 13-14-2-2] [IC 13-17-3-2][IC 13-30-3-1]	
B.16 Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]	
B.17 Annual Fee Payment [326 IAC 2-1.1-7]	
B.18 Credible Evidence [326 IAC 1-1-6]	
<b>C. SOURCE OPERATION CONDITIONS</b> .....	<b>11</b>
<b>Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]</b>	
C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]	
C.2 Permit Revocation [326 IAC 2-1.1-9]	
C.3 Opacity [326 IAC 5-1]	
C.4 Open Burning [326 IAC 4-1] [IC 13-17-9]	
C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2]	
C.6 Fugitive Dust Emissions [326 IAC 6-4]	
C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]	
<b>Testing Requirements [326 IAC 2-6.1-5(a)(2)]</b>	
C.8 Performance Testing [326 IAC 3-6]	
<b>Compliance Requirements [326 IAC 2-1.1-11]</b>	
C.9 Compliance Requirements [326 IAC 2-1.1-11]	
<b>Compliance Monitoring Requirements [326 IAC 2-6.1-5(a)(2)]</b>	
C.10 Compliance Monitoring [326 IAC 2-1.1-11]	
C.11 Instrument Specifications [326 IAC 2-1.1-11]	
<b>Corrective Actions and Response Steps</b>	
C.12 Response to Excursions or Exceedances	
C.13 Actions Related to Noncompliance Demonstrated by a Stack Test	
<b>Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]</b>	
C.14 Malfunctions Report [326 IAC 1-6-2]	
C.15 General Record Keeping Requirements [326 IAC 2-6.1-5]	

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

**D.1 EMISSIONS UNIT OPERATION CONDITIONS..... 17**

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

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

**D.2 EMISSIONS UNIT OPERATION CONDITIONS..... 17**

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

D.2.1 Particulate Emission Limitation [326 IAC 6-3-2]

D.2.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

D.2.3 Material Requirements for Cold Cleaner Degreasers [326 IAC 8-3-8]

D.2.4 Preventive Maintenance Plan [326 IAC 1-6-3]

**Recordkeeping and Reporting Requirements**

D.2.5 Recordkeeping Requirements

Annual Notification ..... 22

Malfunction Report ..... 23

## 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)]

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The Permittee owns and operates a stationary cable manufacturing plant.

Source Address:	440 East 8th Street, Marion, Indiana 46953
General Source Phone Number:	765-664-2321
SIC Code:	3357 (Nonferrous Wiredrawing and Insulating)
County Location:	Grant
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

### A.2 Emission Units and Pollution Control Equipment Summary

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

- (a) One (1) natural gas fired boiler (ID# B1), constructed in 1952, with a maximum heat input capacity of 48.0 million Btu per hour (MMBtu/hr), with no emission controls, and exhausting through stack SS-1.
- (b) One (1) North Lead line (ID #5), constructed in 1967, with a maximum capacity to extrude 3.3 tons of lead per hour, with particulate emissions controlled by a HEPA multi-cartridge filter (ID CC#5), then exhausting to general ventilation. The North lead line includes an adhesive application pot, a lead pot, a dross pot, two (2) polymer extruders, and a lead press extruder and has a maximum capacity to extrude 1,613.8 tons of polymers per year. The adhesive application pot exhausts without control through stack SS-50. The HEPA multi-cartridge filter (ID CC#5) is voluntary and is shared with the South Lead Line (ID #6). Stack SS-50 is shared with the South Lead Line (ID #6).
- (c) One (1) South Lead Line (ID #6), constructed in 1967, with a maximum capacity to extrude 2.1 tons of lead per hour, with particulate emissions controlled by a HEPA multi-cartridge filter (ID CC#5), then exhausting to general ventilation. The South lead line includes an adhesive application pot, a lead pot, a dross pot, a polymer extruder, and a lead press extruder and has a maximum capacity to extrude 1,613.8 tons of polymers per year. The adhesive application pot exhausts without control through stack SS-50. The HEPA multi-cartridge filter (ID CC#5) is voluntary and is shared with the North Lead line (ID #5). Stack SS-50 is shared with the North Lead line (ID #5).
- (d) One (1) Lead Sheathing Line, identified as ESP Lead Extruder, approved for construction in 2010, with a maximum capacity to extrude 1.05 tons of lead per hour, with particulate emissions controlled by a HEPA multi-cartridge filter, then exhausting to general ventilation. The lead sheathing line includes a lead pot, dross pot, and lead press extruder.

- (e) One (1) Lead stripper operation (ID #8), constructed in 1986, with a maximum capacity to strip 18.0 tons of lead per hour, with particulate emissions controlled by a HEPA multi-cartridge filter (ID CC#8), then exhausting to general ventilation (GV).
- (f) No. 8 Rewind Line (ID# 9a), constructed in 1967, with a maximum capacity of 2,628 tons of wire per year, with no emission controls and exhausting to general ventilation (GV). This line is equipped with three (3) organic solvent wash pots which exhaust without control through stack ID# SS-51.
- (g) Two (2) Stranding Lines, identified as 37 & 61, constructed in 1967, each with a maximum capacity of 8760 tons of wire per year, with no emission controls, and exhausting to general ventilation (GV).
- (h) Five (5) Continuous Vulcanization (CV) Lines (ID# CV-1 - CV-5), with no emission controls, and exhausting to general ventilation (GV). CV-1, CV-2, CV-4 and CV-5 were constructed in 1967; CV-3 was constructed in 1997. Each of these lines is equipped with an insulation shield extruder, strand shield extruder, and a main extruder. The maximum yearly polymer extrusion capacity (tons/yr) of each line is as follows: CV-1=2,628.0; CV-2=1,163.6; CV-3=846.3; CV-4=1,327.3; and CV-5=1,971.0.
- (i) One (1) Continuous Corrugated Weld (CCW) Line, constructed in 2010, with a maximum throughput of 40 feet per minute (fpm) using 0.030 inch aluminum, using no controls, and exhausting inside the building, consisting of the following equipment:
  - (1) One (1) TIG welder, identified as Tape Material End Welding Station;
  - (2) One (1) TIG welder, identified as Weld box;
  - (3) One (1) wash pot using Cerfa-Kleen 5387, a non-solvent, non-HAP containing cleaner that cleans the cable;
  - (4) One (1) corrugator station that corrugates the aluminum sheath cable; and
  - (5) One (1) wash pot using Cerfa-Kleen 5387, a non-solvent, non-HAP containing cleaner for a final cleaning.
- (j) One (1) Lead stripper, identified as ESP Lead Stripper, installed in 2011, with a maximum capacity to strip 1.05 tons of lead per hour, with particulate emissions controlled by a HEPA multi-cartridge filter, exhausting indoors to general ventilation (GV).
- (k) Four (4) Cold Cleaner Degreasers, identified as PW-1 through PW-4, installed in 1995, with a maximum total throughput of 70 gallons per year, using no control, exhausting indoors.
- (l) One (1) THHN Line, constructed in 2013, with no emissions control, consisting of three (3) extruder heads:
  - (1) Head 1 has a maximum capacity to extrude 1,200 pounds of PVC per hour,
  - (2) Head 2 has a maximum capacity to extrude 150 pounds of PVC per hour, and
  - (3) Head 3 has a maximum capacity to extrude 150 pounds of nylon per hour.

## **SECTION B GENERAL CONDITIONS**

### **B.1 Definitions [326 IAC 2-1.1-1]**

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Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-1.1-1) shall prevail.

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

- 
- (a) This permit, M053-33909-00001, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

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

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

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

### **B.4 Enforceability**

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

### **B.5 Severability**

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

### **B.6 Property Rights or Exclusive Privilege**

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

### **B.7 Duty to Provide Information**

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

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

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- (a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.
- (b) The annual notice shall be submitted in the format attached no later than March 1 of each year to:  
  
Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251
- (c) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

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

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- (a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:
  - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality

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

The Permittee shall implement the PMPs.

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

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

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- (a) All terms and conditions of permits established prior to M053-33909-00001 and issued pursuant to permitting programs approved into the state implementation plan have been either:
  - (1) incorporated as originally stated,
  - (2) revised, or
  - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

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

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

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

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

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
  - (1) Submitted at least one hundred twenty (120) days prior to the date of the expiration of this permit; and

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

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

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- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:  
  
Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251
- (c) The Permittee shall notify the OAQ no later than thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

**B.14 Source Modification Requirement**

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

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

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

- (a) Enter upon the Permittee's premises where a permitted source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

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

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- (a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:  
  
Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
  
The application which shall be submitted by the Permittee does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement notice-only changes addressed in the request for a notice-only change immediately upon submittal of the request. [326 IAC 2-6.1-6(d)(3)]

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

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

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

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

## SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

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

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

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

C.3 Opacity [326 IAC 5-1]

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

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

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

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

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

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

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

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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]

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

All required notifications shall be submitted to:

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

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

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

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

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

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

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- (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]**

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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]**

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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]**

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- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than

twenty percent (20%) of full scale. The analog instrument shall be capable of measuring values outside of the normal range.

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

### **Corrective Actions and Response Steps**

#### **C.12 Response to Excursions or Exceedances**

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

- (a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
  - (1) initial inspection and evaluation;
  - (2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system); or
  - (3) any necessary follow-up actions to return operation to normal or usual manner of operation.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
  - (1) monitoring results;
  - (2) review of operation and maintenance procedures and records; and/or
  - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall record the reasonable response steps taken.

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

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- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ

that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline

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

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

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

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

- (a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.
- (b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.
- (c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).
- (d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

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

- 
- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

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

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

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

- (b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
  
- (c) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

## SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

- (a) One (1) natural gas fired boiler (ID# B1), constructed in 1952, with a maximum heat input capacity of 48.0 million Btu per hour (MMBtu/hr), with no emission controls, and exhausting through stack SS-1.

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

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

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

Pursuant to 326 IAC 6-2-3(d) (Particulate Emission Limitations for Sources of Indirect Heating) the particulate emissions from the boiler, identified as B1, shall not exceed 0.8 lb/MMBtu heat input.

## SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

### Facility Description: Manufacturing Operations

- (b) One (1) North Lead line (ID #5), constructed in 1967, with a maximum capacity to extrude 3.3 tons of lead per hour, with particulate emissions controlled by a HEPA multi-cartridge filter (ID CC#5), then exhausting to general ventilation. The North lead line includes an adhesive application pot, a lead pot, a dross pot, two (2) polymer extruders, and a lead press extruder and has a maximum capacity to extrude 1,613.8 tons of polymers per year. The adhesive application pot exhausts without control through stack SS-50. The HEPA multi-cartridge filter (ID CC#5) is voluntary and is shared with the South Lead Line (ID #6). Stack SS-50 is shared with the South Lead Line (ID #6).
- (c) One (1) South Lead Line (ID #6), constructed in 1967, with a maximum capacity to extrude 2.1 tons of lead per hour, with particulate emissions controlled by a HEPA multi-cartridge filter (ID CC#5), then exhausting to general ventilation. The South lead line includes an adhesive application pot, a lead pot, a dross pot, a polymer extruder, and a lead press extruder and has a maximum capacity to extrude 1,613.8 tons of polymers per year. The adhesive application pot exhausts without control through stack SS-50. The HEPA multi-cartridge filter (ID CC#5) is voluntary and is shared with the North Lead line (ID #5). Stack SS-50 is shared with the North Lead line (ID #5).
- (d) One (1) Lead Sheathing Line, identified as ESP Lead Extruder, approved for construction in 2010, with a maximum capacity to extrude 1.05 tons of lead per hour, with particulate emissions controlled by a HEPA multi-cartridge filter, then exhausting to general ventilation. The lead sheathing line includes a lead pot, dross pot, and lead press extruder.
- (e) One (1) Lead stripper operation (ID #8), constructed in 1986, with a maximum capacity to strip 18.0 tons of lead per hour, with particulate emissions controlled by a HEPA multi-cartridge filter (ID CC#8), then exhausting to general ventilation (GV).
- (f) No. 8 Rewind Line (ID# 9a), constructed in 1967, with a maximum capacity of 2,628 tons of wire per year, with no emission controls and exhausting to general ventilation (GV). This line is equipped with three (3) organic solvent wash pots which exhaust without control through stack ID# SS-51.
- (g) Two (2) Stranding Lines, identified as 37 & 61, constructed in 1967, each with a maximum capacity of 8760 tons of wire per year, with no emission controls, and exhausting to general ventilation (GV).
- (h) Five (5) Continuous Vulcanization (CV) Lines (ID# CV-1 - CV-5), with no emission controls, and exhausting to general ventilation (GV). CV-1, CV-2, CV-4 and CV-5 were constructed in 1967; CV-3 was constructed in 1997. Each of these lines is equipped with an insulation shield extruder, strand shield extruder, and a main extruder. The maximum yearly polymer extrusion capacity (tons/yr) of each line is as follows: CV-1=2,628.0; CV-2=1,163.6; CV-3=846.3; CV-4=1,327.3; and CV-5=1,971.0.
- (i) One (1) Continuous Corrugated Weld (CCW) Line, constructed in 2010, with a maximum throughput of 40 feet per minute (fpm) using 0.030 inch aluminum, using no controls, and exhausting inside the building, consisting of the following equipment:
  - (1) One (1) TIG weld station, identified as Tape Material End Welding Station;
  - (2) One (1) TIG weld station, identified as Weld box;

- (3) One (1) wash pot using Cerfa-Kleen 5387, a non-solvent, non-HAP containing cleaner that cleans the cable;
  - (4) One (1) corrugator station that corrugates the aluminum sheath cable; and
  - (5) One (1) wash pot using Cerfa-Kleen 5387, a non-solvent, non-HAP containing cleaner for a final cleaning.
- (j) One (1) Lead stripper, identified as ESP Lead Stripper, installed in 2011, with a maximum capacity to strip 1.05 tons of lead per hour, with particulate emissions controlled by a HEPA multi-cartridge filter, exhausting indoors to general ventilation (GV).
  - (k) Four (4) Cold Cleaner Degreasers, identified as PW-1 through PW-4, installed in 1995, with a maximum total throughput of 70 gallons per year, using no control, exhausting indoors.
  - (l) One (1) THHN Line, constructed in 2013, with no emissions control, consisting of three (3) extruder heads:
    - (1) Head 1 has a maximum capacity to extrude 1,200 pounds of PVC per hour,
    - (2) Head 2 has a maximum capacity to extrude 150 pounds of PVC per hour, and
    - (3) Head 3 has a maximum capacity to extrude 150 pounds of nylon per hour.
- (The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

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

**D.2.1 Particulate Emission Limitations [326 IAC 6-3-2]**

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), particulate emissions (PM) shall be limited as shown in the table that follows:

Emission Unit (Control)	Process Weight Rate (tons/hr)	Allowable PM Emissions (326 IAC 6-3-2) (lb/hr)
North Lead Line, ID: #5 (CC#5)	3.3	9.12
South Lead Line, ID: #6 (CC#5)	2.1	6.74
ESP Lead Extruder	1.05	4.24
Lead Stripper, ID: #8 (CC#8)	18.0	28.4

The pound per hour limitation was calculated using the following equation:

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

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

**D.2.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]**

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for cold cleaning operations constructed after January 1, 1980:

- (a) The Permittee of a cold cleaner degreaser shall ensure the following control equipment and operating requirements are met:
  - (1) Equip the degreaser with a cover.
  - (2) Equip the degreaser with a device for draining cleaned parts.
  - (3) Close the degreaser cover whenever parts are not being handled in the degreaser.
  - (4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases.
  - (5) Provide a permanent, conspicuous label that lists the operating requirements in subdivisions (3), (4), (6), and (7).
  - (6) Store waste solvent only in closed containers.
  - (7) Prohibit the disposal or transfer of waste solvent in such a manner that could allow greater than twenty percent (20%) of the waste solvent (by weight) to evaporate into the atmosphere.
  
- (b) The Permittee of a cold cleaner degreaser subject to this subsection shall ensure the following additional control equipment and operating requirements are met:
  - (1) Equip the degreaser with one (1) of the following control devices if the solvent is heated to a temperature of greater than forty-eight and nine-tenths (48.9) degrees Celsius (one hundred twenty (120) degrees Fahrenheit):
    - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
    - (B) A water cover when solvent used is insoluble in, and heavier than, water.
    - (C) A refrigerated chiller.
    - (D) Carbon adsorption.
    - (E) An alternative system of demonstrated equivalent or better control as those outlined in clauses (A) through (D) that is approved by the department. An alternative system shall be submitted to the U.S. EPA as a SIP revision.
  - (2) Ensure the degreaser cover is designed so that it can be easily operated with one (1) hand if the solvent is agitated or heated.
  - (3) If used, solvent spray:
    - (A) must be a solid, fluid stream; and
    - (B) shall be applied at a pressure that does not cause excessive splashing.

#### D.2.3 Material Requirements for Cold Cleaner Degreasers [326 IAC 8-3-8]

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

#### D.2.4 Preventive Maintenance Plan [326 IAC 1-6-3]

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A Preventive Maintenance Plan is required for the North Lead line (#5), the South Lead line (#6), the Lead Sheathing Line, and the Lead Stripper (#8), ESP Lead Stripper. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

### **Recordkeeping and Reporting Requirements**

#### D.2.5 Recordkeeping Requirements

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To document the compliance status with Condition D.2.3, on and after January 1, 2015, the Permittee shall maintain the following records for each purchase of solvent used in the cold cleaner degreasing operations. These records shall be retained on-site or accessible electronically for the most recent three (3) year period and shall be reasonably accessible for an additional two (2) year period.

- (a) The name and address of the solvent supplier.
- (b) The date of purchase.
- (c) The type of solvent purchased.
- (d) The total volume of the solvent purchased.
- (e) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

**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).

<b>Company Name:</b>	General Cable Industries, Inc.
<b>Address:</b>	440 East 8th Street
<b>City:</b>	Marion, Indiana 46953
<b>Phone #:</b>	765-664-2321
<b>MSOP #:</b>	M053-33909-00001

I hereby certify that General Cable Industries, Inc. is :

still in operation.

no longer in operation.

I hereby certify that General Cable Industries, Inc. is :

in compliance with the requirements of MSOP M053-33909-00001.

not in compliance with the requirements of MSOP M053-33909-00001.

<b>Authorized Individual (typed):</b>
<b>Title:</b>
<b>Signature:</b>
<b>Date:</b>

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

<b>Noncompliance:</b>

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

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

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

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

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

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

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

DATE/TIME MALFUNCTION STARTED: \_\_\_\_/\_\_\_\_/20\_\_\_\_    \_\_\_\_\_ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: \_\_\_\_\_

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

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

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: \_\_\_\_\_

MEASURES TAKEN TO MINIMIZE EMISSIONS: \_\_\_\_\_

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL\* SERVICES: \_\_\_\_\_

CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: \_\_\_\_\_

CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: \_\_\_\_\_

INTERIM CONTROL MEASURES: (IF APPLICABLE) \_\_\_\_\_

MALFUNCTION REPORTED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_  
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

\*SEE PAGE 2

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

**326 IAC 1-6-1 Applicability of rule**

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

**326 IAC 1-2-39 "Malfunction" definition**

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

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

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

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

Technical Support Document (TSD) for a  
Minor Source Operating Permit Renewal

**Source Background and Description**

<b>Source Name:</b>	<b>General Cable Industries, Inc.</b>
<b>Source Location:</b>	<b>440 East 8<sup>th</sup> Street, Marion, IN 46953</b>
<b>County:</b>	<b>Grant</b>
<b>SIC Code:</b>	<b>3357 (Nonferrous Wiredrawing and Insulating)</b>
<b>Permit Renewal No.:</b>	<b>M053-33909-00001</b>
<b>Permit Reviewer:</b>	<b>Tamera Wessel</b>

The Office of Air Quality (OAQ) has reviewed the operating permit renewal application from General Cable Industries, Inc. relating to the continued operation of a stationary cable manufacturing plant. On November 21, 2013, General Cable Industries, Inc. submitted an application to the OAQ requesting to renew its operating permit. General Cable Industries, Inc. was issued its initial MSOP M053-28045-00001 on April 20, 2009.

**Permitted Emission Units and Pollution Control Equipment**

The source consists of the following permitted emission units:

- (a) One (1) natural gas fired boiler (ID# B1), constructed in 1952, with a maximum heat input capacity of 48.0 million Btu per hour (MMBtu/hr), with no emission controls, and exhausting through stack SS-1.
- (b) One (1) North Lead line (ID #5), constructed in 1967, with a maximum capacity to extrude 3.3 tons of lead per hour, with particulate emissions controlled by a HEPA multi-cartridge filter (ID CC#5), then exhausting to general ventilation. The North lead line includes an adhesive application pot, a lead pot, a dross pot, two (2) polymer extruders, and a lead press extruder and has a maximum capacity to extrude 1,613.8 tons of polymers per year. The adhesive application pot exhausts without control through stack SS-50. The HEPA multi-cartridge filter (ID CC#5) is voluntary and is shared with the South Lead Line (ID #6). Stack SS-50 is shared with the South Lead Line (ID #6).
- (c) One (1) South Lead Line (ID #6), constructed in 1967, with a maximum capacity to extrude 2.1 tons of lead per hour, with particulate emissions controlled by a HEPA multi-cartridge filter (ID CC#5), then exhausting to general ventilation. The South lead line includes an adhesive application pot, a lead pot, a dross pot, a polymer extruder, and a lead press extruder and has a maximum capacity to extrude 1,613.8 tons of polymers per year. The adhesive application pot exhausts without control through stack SS-50. The HEPA multi-cartridge filter (ID CC#5) is voluntary and is shared with the North Lead line (ID #5). Stack SS-50 is shared with the North Lead line (ID #5).
- (d) One (1) Lead Sheathing Line, identified as ESP Lead Extruder, approved for construction in 2010, with a maximum capacity to extrude 1.05 tons of lead per hour, with particulate emissions controlled by a HEPA multi-cartridge filter, then exhausting to general ventilation. The lead sheathing line includes a lead pot, dross pot, and lead press extruder.

- (e) One (1) Lead stripper operation (ID #8), constructed in 1986, with a maximum capacity to strip 18.0 tons of lead per hour, with particulate emissions controlled by a HEPA multi-cartridge filter (ID CC#8), then exhausting to general ventilation (GV).
- (f) No. 8 Rewind Line (ID# 9a), constructed in 1967, with a maximum capacity of 2,628 tons of wire per year, with no emission controls and exhausting to general ventilation (GV). This line is equipped with three (3) organic solvent wash pots which exhaust without control through stack ID# SS-51.
- (g) Two (2) Stranding Lines, identified as 37 & 61, constructed in 1967, each with a maximum capacity of 8760 tons of wire per year, with no emission controls, and exhausting to general ventilation (GV).
- (h) Five (5) Continuous Vulcanization (CV) Lines (ID# CV-1 - CV-5), with no emission controls, and exhausting to general ventilation (GV). CV-1, CV-2, CV-4 and CV-5 were constructed in 1967; CV-3 was constructed in 1997. Each of these lines is equipped with an insulation shield extruder, strand shield extruder, and a main extruder. The maximum yearly polymer extrusion capacity (tons/yr) of each line is as follows: CV-1=2,628.0; CV-2=1,163.6; CV-3=846.3; CV-4=1,327.3; and CV-5=1,971.0.
- (i) One (1) Continuous Corrugated Weld (CCW) Line, constructed in 2010, with a maximum throughput of 40 feet per minute (fpm) using 0.030 inch aluminum, using no controls, and exhausting inside the building, consisting of the following equipment:
  - (1) One (1) TIG welder, identified as Tape Material End Welding Station;
  - (2) One (1) TIG welder, identified as Weld box;
  - (3) One (1) wash pot using Cerfa-Kleen 5387, a non-solvent, non-HAP containing cleaner that cleans the cable;
  - (4) One (1) corrugator station that corrugates the aluminum sheath cable; and
  - (5) One (1) wash pot using Cerfa-Kleen 5387, a non-solvent, non-HAP containing cleaner for a final cleaning.
- (j) One (1) Lead stripper, identified as ESP Lead Stripper, installed in 2011, with a maximum capacity to strip 1.05 tons of lead per hour, with particulate emissions controlled by a HEPA multi-cartridge filter, exhausting indoors to general ventilation (GV).
- (k) Four (4) Cold Cleaner Degreasers, identified as PW-1 through PW-4, installed in 1995, with a maximum total throughput of 70 gallons per year, using no control, exhausting indoors.
- (l) One (1) THHN Line, constructed in 2013, with no emissions control, consisting of three (3) extruder heads:
  - (1) Head 1 has a maximum capacity to extrude 1,200 pounds of PVC per hour,
  - (2) Head 2 has a maximum capacity to extrude 150 pounds of PVC per hour, and
  - (3) Head 3 has a maximum capacity to extrude 150 pounds of nylon per hour.

**Existing Approvals**

Since the issuance of the MSOP M053-28045-00001 on April 20, 2009, the source has constructed or has been operating under the following additional approvals:

- (a) Administrative Amendment No. 053-33395-00001 issued on August 8, 2013;
- (b) Administrative Amendment No. 053-33006-00001 issued on May 17, 2013;
- (c) Notice Only Change No. 053-29826-00001 issued on November 17, 2010;
- (d) Minor Permit Revision No. 053-29333-00001 issued on July 1, 2010;
- (e) Notice Only Change No. 053-28606-00001 issued on November 23, 2009;

All terms and conditions of previous permits issued pursuant to permitting programs approved into the State Implementation Plan have been either incorporated as originally stated, revised, or deleted by this permit. All previous registrations and permits are superseded by this permit.

**Enforcement Issue**

There are no enforcement actions pending.

**Emission Calculations**

See Appendix A of this document for detailed emission calculations.

**County Attainment Status**

The source is located in Grant County.

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

- (a) **Ozone Standards**  
 Volatile organic compounds (VOC) and Nitrogen Oxides (NO<sub>x</sub>) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO<sub>x</sub> emissions are considered when evaluating the rule applicability relating to ozone. Grant County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO<sub>x</sub> emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

- (b) **PM<sub>2.5</sub>**  
Grant County has been classified as attainment for PM<sub>2.5</sub>. On May 8, 2008, U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM<sub>2.5</sub> 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<sub>2.5</sub> significant level at ten (10) tons per year. This rule became effective June 28, 2011. Therefore, direct PM<sub>2.5</sub>, SO<sub>2</sub>, and NO<sub>x</sub> emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (c) **Other Criteria Pollutants**  
Grant County has been classified as attainment or unclassifiable in Indiana for PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub>, VOC, and CO. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

### Fugitive Emissions

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.

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.

### Unrestricted Potential Emissions

Appendix A of this TSD reflects the unrestricted potential emissions of the source.

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of all regulated pollutants, excluding GHGs, is less than 100 tons per year. However, PM, PM<sub>10</sub>, and PM<sub>2.5</sub> are equal to or greater than twenty-five (25) tons per year. The source is not subject to the provisions of 326 IAC 2-7. Therefore, the source will be issued an MSOP Renewal.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of GHGs is less than one hundred thousand (100,000) tons of CO<sub>2</sub> equivalent emissions (CO<sub>2</sub>e) per year.
- (c) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is less than ten (10) tons per year and/or the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, the source will be issued an MSOP Renewal.

**Potential to Emit After Issuance**

The table below summarizes the potential to emit, reflecting all limits of the emission units. Any control equipment is considered enforceable only after issuance of this MSOP and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of Renewal (tons/year)									
	PM	PM <sub>10</sub> *	PM <sub>2.5</sub> **	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	GHGs	Total HAPs	Worst Single HAP
Boiler B1	0.39	1.57	1.57	0.12	20.61	1.13	17.31	24,885	0.39	0.37 Hexane
Lead Lines North & South	36.09	36.09	36.09	-	-	8.48	-	-	2.48	2.33 Toulene
ESP Lead Extruder	7.36	7.36	7.36	-	-	-	-	-	2.30	2.30 Lead
Lead Stripper	13.32	13.32	13.32	-	-	-	-	-	0.02	0.02 Lead
ESP Lead Stripper	0.78	0.78	0.78	-	-	-	-	-	0.001	0.001 Lead
Extrusion	1.92	1.92	1.92	-	-	1.02	-	-	8.56	8.56 Acetophenone
Degreasers	-	-	-	-	-	0.23	-	-	-	-
CCW Line	0.05	0.05	0.05	-	-	-	-	-	0.004	0.004 Manganese
THHN Line	0.29	0.29	0.29	-	-	0.38	-	-	0.01	0.01 Antimony
Fugitive Roadway Emissions	6.30	1.26	0.31	-	-	-	-	-	-	-
<b>Total PTE of Entire Source</b>	<b>66.51</b>	<b>62.64</b>	<b>61.69</b>	<b>0.12</b>	<b>20.61</b>	<b>11.25</b>	<b>17.31</b>	<b>24,885</b>	<b>13.77</b>	<b>8.56 Acetophenone</b>
Title V Major Source Thresholds	NA	100	100	100	100	100	100	100,000 CO <sub>2</sub> e	25	10

negl. = negligible  
 \* Under the Part 70 Permit program (40 CFR 70), PM10 and PM2.5, not particulate matter (PM), are each considered as a regulated air pollutant".  
 \*\*PM<sub>2.5</sub> listed is direct PM<sub>2.5</sub>.

- (a) This existing stationary source is not major for PSD because the emissions of each regulated pollutant, excluding GHGs, are less than two hundred fifty (<250) tons per year, emissions of GHGs are less than one hundred thousand (<100,000) tons of CO<sub>2</sub> equivalent emissions (CO<sub>2</sub>e) per year, and it is not in one of the twenty-eight (28) listed source categories.
- (b) GHG emissions are less than one hundred thousand (<100,000) tons of CO<sub>2</sub> equivalent (CO<sub>2</sub>e) emissions per year.

**Federal Rule Applicability**

**Compliance Assurance Monitoring (CAM)**

- (a) 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.

### **New Source Performance Standards (NSPS)**

- (a) The requirements of the New Source Performance Standard for Small Industrial-Commercial-Institutional Steam Generating Units, 40 CFR 60.40b, Subpart Db (326 IAC 12), are not included in the permit, since the boiler, identified as ID# B1, rated at 48 MMBtu per hour, and constructed in 1952, was constructed prior to the rule applicability date of June 19, 1984.
- (b) The requirements of the New Source Performance Standard for Small Industrial-Commercial-Institutional Steam Generating Units, 40 CFR 60.40c, Subpart Dc (326 IAC 12), are not included in the permit, since the boiler, identified as ID# B1, rated at 48 MMBtu per hour, and constructed in 1952, was constructed prior to the rule applicability date of June 9, 1989.
- (c) The requirements of the New Source Performance Standard for Volatile Organic Compound (VOC) Emissions from the Polymer Manufacturing, 40 CFR Part 60.560, Subpart DDD are not included in the permit because the source does not manufacture polypropylene, polyethylene, polystyrene, or poly (ethylene terephthalate), but purchases the resins as polymer, mixes additives and colorants, and reextrudes.
- (d) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in this permit renewal.

### **National Emission Standards for Hazardous Air Pollutants (NESHAP)**

- (a) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Halogenated Solvent Cleaning, 40 CFR 63.460, Subpart T (326 IAC 20-6-1), apply to each individual batch vapor, in-line vapor, in-line cold, and batch cold solvent cleaning machine that uses any solvent containing methylene chloride, perchloroethylene, trichloroethylene, 1,1,1-trichloroethane, carbon tetrachloride or chloroform, or any combination of these halogenated HAP solvents, in a total concentration greater than five (5) percent by weight, as a cleaning and/or drying agent. The requirements of this subpart are not included in the permit, since the cold cleaner degreaser uses a non-halogenated solvent and the source is not a major source of HAP.
- (b) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Area Source Standards for Nine Metal Fabrication and Finishing Source Categories are applicable to metal fabricating and finishing operations in any one of the nine fabrication and finishing area source categories listed in Table 1, which use materials that contain or have the potential to emit metal fabrication or finishing Hazardous Air Pollutants (MFHAP). Pursuant 40 CFR Part 63.11522, *metal fabricating and finishing operations* means dry abrasive blasting, dry grinding or polishing, machining, spray painting, welding and/or the use of *metal fabrication or finishing HAP (MFHAP)*. MFHAP are the compounds of cadmium, chromium, lead, manganese, and nickel, or any of these metals in the elemental form with the exception of lead.

General Cable Industries is primarily engaged in manufacturing insulated electronic cables, made from purchased nonferrous wire which is not a source category listed in Table 1. This source operates under the SIC code 3357 which is not one of the applicable codes as listed by the EPA. Although the source uses lead to insulate specialized cables during heat treating, the lead is removed and recycled. In addition, the source does not perform metal fabricating and finishing operations.

- (c) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Epoxy Resins Production and Non-nylon Polyamides Production, 40 CFR

63, Subpart W, are not included in the permit, since this source is not a major source of HAPs, and does not manufacture epoxy and non-nylon products. Therefore, the requirements of 40 CFR 63, Subpart W do not apply.

- (d) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Group IV Polymers and Resins, 40 CFR 63, Subpart JJJ (326 IAC 20), are not included in this permit because this source does not process or manufacture a thermoplastic product as defined by 40 CFR 63.1312 and the source is not a major source for HAPs.
- (e) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Polyether Polyols Production, 40 CFR 63, Subpart PPP (326 IAC 20-59), are not included in the permit, since this source is not a major source of HAPs, and does not manufacture polyether polyols, as defined in §63.1423.
- (f) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Reinforced Plastic Composites Production, 40 CFR 63, Subpart WWWW (326 IAC 20), are not included in this permit because this source does not produce plastic composites and is not a major source of HAPs.
- (g) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Polyvinyl Chloride and Copolymers Production Area Sources, 40 CFR 63, Subpart DDDDDD (326 IAC 20), are not included in this permit because this source does not produce polyvinyl chloride and copolymers.
- (h) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Acrylic and Modacrylic Fibers Production Area Sources, 40 CFR 63, Subpart LLLLLL (6L) (326 IAC 20), are not included in the permit, since this source does not produce acrylic or modacrylic fibers, as defined in §63.11398.
- (i) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Flexible Polyurethane Foam Production and Fabrication Area Sources, 40 CFR 63, Subpart OOOOOO (6O) (326 IAC 20), are not included in the permit, since this source does not produce flexible polyurethane foam or rebond foam as defined in §63.1292, and is not a flexible polyurethane foam fabrication facility, as defined in §63.11419.
- (j) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Chemical Manufacturing Area Sources, 40 CFR 63, Subpart VVVVVV (6V) (326 IAC 20), are not included in the permit, since pursuant to 40 CFR 63.11494(c)(2)(iii), fabricating operations that convert an already produced solid polymer into a different shape by melting or mixing the polymer and then forcing it or pulling it through an orifice to create an extruded product are exempt from the rule.
- (k) There are no National Emission standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 20 and 40 CFR Part 61, 63) included in this permit renewal.

<b>State Rule Applicability - Entire Source</b>
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- (a) 326 IAC 1-6-3 (Preventive Maintenance Plan)  
The source is subject to 326 IAC 1-6-3.
- (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 pollutants are less than two hundred fifty (250) tons per year, and this source is not one of the twenty-eight (28) listed source

categories, as specified in 326 IAC 2-2-1(gg)(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 emission of any single HAP is less than ten (10) tons per year and the combined emissions of any combination of HAP is less than twenty-five (25) tons per year. Therefore, this source is considered 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 five (5) tons per year. However, pursuant to 326 IAC 2-6-1(b), all sources permitted by the department are subject to 326 IAC 2-6-5 of this rule which states that the department may request emissions and emission-related information about any regulated air pollutant as defined at 326 IAC 2-7-1(31) from any permitted source when needed for air quality planning, air quality modeling, or state implementation plan development.
- (e) 326 IAC 2-6.1 (Minor Source Operating Permits (MSOP))  
MSOP applicability is discussed under the Permit Level Determination – MSOP section above.
- (f) 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.
- (g) 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.
- (h) 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)  
The requirements of 326 IAC 6-5 are not applicable to the source because it does not have the potential to emit fugitive particulate matter emissions greater than twenty-five (25) tons per year or more.
- (i) 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)  
Each of the emission units at this source is not subject to the requirements of 326 IAC 8-1-6, since the potential unlimited VOC emissions from each unit are less than twenty-five (25) tons per year.
- (j) 326 IAC 8-6 (Organic Solvent Emission Limitations)  
This rule applies to sources existing as of January 1, 1980, located in Lake and Marion Counties, as well as to facilities commencing operation after October 7, 1974 and prior to

January 1, 1980 that are located anywhere in the state, with potential VOC emissions of one hundred (100) tons per year or more, and not regulated by any other provision of Article 8. This source is located in Grant County and, has potential VOC emissions of less than one hundred (100) tons per year; therefore, 326 IAC 8-6 does not apply to this source.

<b>State Rule Applicability – Individual Facilities</b>
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*Boiler*

- (a) 326 IAC 6-2-3 (Particulate Emission Limitations for Sources of Indirect Heating)  
The one (1) natural gas fired boiler (B1), with a maximum capacity of 48 MMBtu/hr and constructed in 1952, is subject to the particulate matter limitations of 326 IAC 6-2. Pursuant 326 IAC 6-2-3(a), particulate emissions from indirect heating facilities constructed prior to September 21, 1983, shall be limited by the following equation:

$$Pt = \frac{C \times a \times h}{76.5 \times Q^{0.75} \times N^{0.25}}$$

where

- C = 50 u/m<sup>3</sup>  
Pt = emission rate limit (lbs/MMBtu)  
Q = total source heat input capacity (MMBtu/hr)  
N = number of stacks  
a = plume rise factor (0.67)  
h = stack height in feet. If a number of stacks of different heights exist, average stack height to represent "N" stacks shall be calculated by weighing each stack height with its particulate matter emission rate as follows:

$$h = \frac{\sum_{i=1}^N H_i \times p_{a_i} \times Q}{\sum_{i=1}^N p_{a_i} \times Q}$$

where:

- Pa = the actual controlled emissions rate in lb/MMBtu using the emission factor from AP-42 or stack test data. Stacks constructed after January 1, 1971, shall be credited with GEP stack height only. GEP stack height shall be calculated as specified in 326 IAC 1-7.

For boiler ID# B1, constructed before 1972; Q = 48.0 MMBtu/hr.  
Pt = (50\*0.67\*36)/(76.5\*48.0<sup>0.75</sup>\*1<sup>0.25</sup>) = 0.86 lb/MMBtu

Pursuant to 326 IAC 6-2-3(d), particulate emissions from all facilities used for indirect heating purposes which were existing and in operation on or before June 8, 1972, shall in no case exceed 0.8 lb/MMBtu heat input. Therefore, the source shall comply with the particulate emission limit of 0.8 lb/MMBtu heat input, since the limit determined through the equation contained in 326 IAC 6-2-3(a) was calculated to be higher than 0.8 lb/MMBtu.

Compliance calculations:

$(0.39 \text{ tons PM/yr}) * (\text{hr}/48.0 \text{ MMBtu}) * (\text{yr}/8,760 \text{ hrs}) * (2,000 \text{ lbs/ton}) = 0.00186 \text{ lbs PM/MMBtu}$

The actual PM emission rate for boiler B1 is 0.00186 lb /MMBtu, which is less than allowable 0.8 lb /MMBtu heat input limit, therefore the boiler will be able to comply with the requirements of 326 IAC 6-2-3(d) without the use of a control device.

- (b) 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)  
The one (1) natural gas-fired boiler (B1) uses only natural gas as fuel. Therefore boiler B1 is not subject to 326 IAC 7-1.1.

*Line Operations (Extrusion, Stripping, Rewind, and Stranding)*

- (a) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
- (1) Pursuant to 326 IAC 6-3-1(b)(14), the Stranding Lines, identified as 37 and 62, are each 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.
  - (2) Pursuant to 326 IAC 6-3-1(b)(14), the five (5) continuous vulcanization lines (ID# CV-1 through CV-5) are each 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.
  - (3) Pursuant to 326 IAC 6-3-1(b)(14), the ESP Lead Stripper 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.
  - (4) Pursuant to 326 IAC 6-3-1(b)(14), the THHN Line 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.
  - (5) Pursuant to 326 IAC 6-3-1(b)(9), the TIG weld stations are exempt from the requirements of 326 IAC 6-3, because each station consumes less than six hundred twenty-five (625) pounds of rod or wire per day.
  - (6) The particulate matter (PM) emissions from the following processes shall be limited by the equation shown below:

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

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

where

E = rate of emission in pounds per hour  
P = process weight rate in tons per hour

Emission Unit (Control)	Process Weight Rate (tons/hr)	Uncontrolled PM Emissions (lbs/hr)	Allowable PM Emissions (326 IAC 6-3-2) (lbs/hr)
North Lead Line, ID: #5 (CC#5)	3.3	5.04	9.12
South Lead Line, ID: #6 (CC#6)	2.1	3.20	6.74
ESP Lead Extruder	1.05	1.68	4.24
Lead Stripper, ID: #8 (CC#8)	18.0	3.04	28.4

The emission units are able to comply with 326 IAC 6-3-2 without the use of control.

- (b) 326 IAC 8-2-4 (Coil Coating Operations)  
 The requirements of 326 IAC 8-2-4 apply to owners or operators of coil coating lines which perform surface coating of any flat metal sheet or strip that comes in rolls or coils. General Cable does not coat any flat metal sheets or strips and is therefore not subject to the requirements of 326 IAC 8-2-4.
- (c) 326 IAC 8-2-8 (Magnet Wire Coating Operations)  
 The requirements of 326 IAC 8-2-8 apply to owners or operators of magnetic wire coating ovens which apply a coating of electrically insulating varnish or enamel to aluminum or copper wire for use in electrical machinery. General Cable does not own or operate a magnetic wire coating oven, nor does it apply varnish or enamel to aluminum or copper wire. Therefore, this source is not subject to the requirements of 326 IAC 8-2-8.
- (d) 326 IAC 8-2-9 (Miscellaneous Metal and Plastic Parts Coating Operations)  
 Pursuant to 326 IAC 8-2-9(a)(1)(E), provisions of 326 IAC 8-2-9 (Miscellaneous metal coating operations) apply to surface coating of metal parts or products categorized under the Standard Industrial Classification Code (SIC) of the major groups #33, #34, #35, #36, #37, #38, and #39. Therefore,
- (1) Although the SIC code for this source is 3357, the operations, including North and South Lead lines (#5 and #6), one (1) Lead stripper (#8), one (1) No. 8 Rewind Line (#9a), four (4) CV lines (CV-1, CV-2, CV-4, and CV-5) and two (2) Stranding lines (37 & 61), were constructed prior to rule applicability date of July 1, 1990, therefore, the rules under 326 IAC 8-2 do not apply to these operations.
  - (2) Although the SIC code for this source is 3357, pursuant to 326 IAC 8-2-1(a)(4), rule 326 IAC 8-2-9 is not applicable to the one (1) CV line (CV-3), lead sheathing line, identified as ESP Lead Extruder, lead stripper, identified as ESP Lead Stripper, and the THHN line because the actual VOC emission rates of these processes are less than 15 pounds per day.

*Degreasers*

- (e) 326 IAC 8-3 (Organic Solvent Degreasing Operations)  
 The cold cleaner degreasers, identified as PW-1 through PW-5, are subject to 326 IAC 8-3 because they were constructed after July 1, 1990. Pursuant to 326 IAC 8-3-2:
- (1) The Permittee of a cold cleaner degreaser shall ensure the following control equipment and operating requirements are met:
    - (A) Equip the degreaser with a cover.

- (B) Equip the degreaser with a device for draining cleaned parts.
  - (C) Close the degreaser cover whenever parts are not being handled in the degreaser.
  - (D) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases.
  - (E) Provide a permanent, conspicuous label that lists the operating requirements in subdivisions (3), (4), (6), and (7).
  - (F) Store waste solvent only in closed containers.
  - (G) Prohibit the disposal or transfer of waste solvent in such a manner that could allow greater than twenty percent (20%) of the waste solvent (by weight) to evaporate into the atmosphere.
- (2) The Permittee of a cold cleaner degreaser subject to this subsection shall ensure the following additional control equipment and operating requirements are met:
- (A) Equip the degreaser with one (1) of the following control devices if the solvent is heated to a temperature of greater than forty-eight and nine-tenths (48.9) degrees Celsius (one hundred twenty (120) degrees Fahrenheit):
    - (i) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
    - (ii) A water cover when solvent used is insoluble in, and heavier than, water.
    - (iii) A refrigerated chiller.
    - (iv) Carbon adsorption.
    - (v) An alternative system of demonstrated equivalent or better control as those outlined in clauses (A) through (D) that is approved by the department. An alternative system shall be submitted to the U.S. EPA as a SIP revision.
  - (B) Ensure the degreaser cover is designed so that it can be easily operated with one (1) hand if the solvent is agitated or heated.
  - (C) If used, solvent spray:
    - (i) must be a solid, fluid stream; and
    - (ii) shall be applied at a pressure that does not cause excessive splashing.
- (f) 326 IAC 8-3-8 (Material requirements for cold cleaner degreasers)  
Pursuant to 326 IAC 8-3-8, on and after January 1, 2015, material requirements for the cold cleaner greasers, identified as PW-1 through PW-5, are as follows:
- (1) No person shall cause or allow the sale of solvents for use in cold cleaner degreasing operations with a VOC composite partial vapor pressure, when diluted at the manufacturer's recommended blend and dilution, that exceeds one

- (1) millimeter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit) in an amount greater than five (5) gallons during any seven (7) consecutive days to an individual or business.
- (2) All persons subject to the requirements of subsection (b)(2) shall maintain each of the following records for each purchase:
  - (A) The name and address of the solvent supplier.
  - (B) The date of purchase (or invoice/bill date of contract servicer indicating service date).
  - (C) The type of solvent purchased.
  - (D) The total volume of the solvent purchased.
  - (E) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixtyeight (68) degrees Fahrenheit).
- (3) All required records shall be:
  - (A) Retained on-site or accessible electronically from the site for the most recent three (3) year period; and
  - (B) Reasonably accessible for an additional two (2) year period.

#### **Compliance Determination and Monitoring Requirements**

- (a) There are no testing requirements applicable to this source for the purposes of this MSOP.
- (b) There are no compliance monitoring requirements included in this permit renewal. The cartridge filters on the lead lines (#5, #6) and lead stripper (#8) are not required to be in operation since all three (3) emission units are able to comply with applicable 326 IAC 6-3-2 particulate emission limitations without the use of control devices.
- (c) There are no other compliance determination and monitoring requirements applicable to this source for the purposes of this MSOP.

#### **Recommendation**

The staff recommends to the Commissioner that the MSOP Renewal be approved. This recommendation is based on the following facts and conditions:

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 November 21, 2013.

<b>Conclusion</b>
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The operation of this cable manufacturing plant shall be subject to the conditions of the attached MSOP Renewal No. M053-33909-00001.

<b>IDEM Contact</b>
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- (a) Questions regarding this proposed permit can be directed to Tamera Wessel at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCM 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-8530 or toll free at 1-800-451-6027 extension 4-8530.
- (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.idem.in.gov](http://www.idem.in.gov)

**Appendix A: Emission Calculations  
Emissions Summary**

**Company Name: General Cable Industries, Inc.**  
**Address City IN Zip: 440 East 8th Street, Marion, IN 46953**  
**Permit Number: M053-33909-00001**  
**Plt ID: 053-00001**  
**Reviewer: Tamera Wessel**  
**Date: November 21, 2013**

<b>Unlimited Potential to Emit of Entire Source (tons/yr)</b>											
<b>Emission Unit</b>	<b>PM</b>	<b>PM10</b>	<b>PM2.5</b>	<b>SO2</b>	<b>NOx</b>	<b>VOC</b>	<b>CO</b>	<b>GHGs as Co2e</b>	<b>Total HAPs</b>	<b>Single HAP</b>	
Boiler #B1 Natural Gas	0.39	1.57	1.57	0.12	20.61	1.13	17.31	24,885	0.39	0.37	Hexane
Lead Lines North & South	36.09	36.09	36.09	-	-	8.48	-	-	2.48	2.33	Toluene
ESP Lead Extruder	7.36	7.36	7.36	-	-	-	-	-	2.30	2.30	Lead
Lead Stripper	13.32	13.32	13.32	-	-	-	-	-	0.02	0.02	Lead
ESP Lead stripper	0.78	0.78	0.78	-	-	-	-	-	0.001	0.001	Lead
Extrusion	1.92	1.92	1.92	-	-	1.02	-	-	8.56	8.56	Acetophenone
Degreasers	-	-	-	-	-	0.23	-	-	-	-	-
CCW Line	0.05	0.05	0.05	-	-	-	-	-	0.004	0.004	Manganese
THHN Line	0.29	0.29	0.29	-	-	0.38	-	-	0.01	0.01	Antimony
Fugitive Roadway Emissions	6.30	1.26	0.31	-	-	-	-	-	-	-	-
<b>Total</b>	<b>66.51</b>	<b>62.64</b>	<b>61.69</b>	<b>0.12</b>	<b>20.61</b>	<b>11.25</b>	<b>17.31</b>	<b>24,885</b>	<b>13.77</b>	<b>8.56</b>	<b>Acetophenone</b>

**Appendix A: Emission Calculations  
Lead Lines**

**Company Name: General Cable Industries, Inc.  
Address City IN Zip: 440 East 8th Street, Marion, IN 46953  
Permit Number: M053-33909-00001  
Plt ID: 053-00001  
Reviewer: Tamera Wessel  
Date: November 21, 2013**

**Lead Lines**

Facility Description	Control Device	Control Efficiency (%)	Max. Capacity (tons/hr)	Stack ID	Max. Production (tons/yr)
(a) North Lead Line (ID # 5)	CC#5	95.00%	3.3	SS-50 *	28,908
(b) South Lead Line (ID # 6)	CC#5	95.00%	2.1	SS-50 **	18,396

**Emissions**

Pollutant	North Lead Line (#5)			South Lead Line (#6)			Total Uncontrolled Emissions (ton/yr)	Total Controlled Emissions (ton/yr)
	Emission Factor (lb/ton)	Uncontrolled Emissions (ton/yr)	Controlled Emissions (ton/yr)	Emission Factor (lb/ton)	Uncontrolled Emissions (ton/yr)	Controlled Emissions (ton/yr)		
PM	1.526	22.06	1.10	1.526	14.04	0.70	<b>36.09</b>	<b>1.80</b>
PM <sub>10</sub>	1.526	22.06	1.10	1.526	14.04	0.70	<b>36.09</b>	<b>1.80</b>
PM <sub>2.5</sub>	1.526	22.06	1.10	1.526	14.04	0.70	<b>36.09</b>	<b>1.80</b>
Lead (Pb)	0.0102	0.15	0.01	0.0008	0.01	0.00	<b>0.15</b>	<b>0.01</b>
VOC **		5.65			2.83		<b>8.48</b>	<b>8.48</b>

Notes: 1) PM and PM<sub>10</sub> emission factors for Lead lines are based on the stack test performed on September 1995 at this facility, because no testing for these pollutants was conducted in 2000 or later.

2) Lead (Pb) emission factors for Lead lines are based on the stack test performed on August 23, 1999 at this facility, because no testing for this pollutant was conducted in 2004 or later.

\* Emissions from the organic solvent wash pot & the adhesive application pot exhaust to SS-50; all other emission points on the North lead line exhaust to the HEPA cartridge (CC#5) and are then vented indoors.

\*\* Emissions from the organic solvent wash pot & the adhesive application pot exhaust to SS-50; all other emission points on the South lead line exhaust to the HEPA cartridge (CC#6) and are then vented indoors.

**Methodology:**

Potential Emissions tons/yr = Emission factor (lb/ton) x maximum capacity (tons/hr) / 2000 lb/ton x 8760 hrs/yr

VOC emissions from the organic solvent wash pot & the adhesive application pot are assumed to be 100%.

The above information is from permit No. M053-29826-00001, issued on November 17, 2010.

**Appendix A: Emission Calculations  
ESP Lead Extruder**

**Company Name: General Cable Industries, Inc.  
Address City IN Zip: 440 East 8th Street, Marion, IN 46953  
Permit Number: M053-33909-00001  
Plt ID: 053-00001  
Reviewer: Tamera Wessel  
Date: November 21, 2013**

	Maximum Capacity (ton/hr)	Control Efficiency %
Lead Line		
ESP Lead Extruder	1.05	95.00%

Pollutant	ESP Lead Extruder**			
	Emission Factor (lb/ton)	Uncontrolled Emissions (lb/hr)	Uncontrolled Emissions (ton/yr)	Controlled Emissions (ton/yr)
PM*	1.60	1.68	7.36	0.37
PM10*	1.60	1.68	7.36	0.37
PM2.5*	1.60	1.68	7.36	0.37
Lead (Pb)**	0.50	0.53	2.30	0.11

**Methodology**

\* PM/PM10/PM2.5 emission factors for North and South lead lines based on stack testing that was performed on September 1995, at this facility and have been conservatively overestimated.

\*\* Lead Emission Factors from AP-42 Chapter 12-17, Table 12-17-2 (SCC 3-04-040-01)

Uncontrolled Emissions (lb/hr) = Maximum Capacity (ton/hr) x Emission Factor (lb/ton)

Uncontrolled Emissions (ton/yr) = Uncontrolled Emissions (lb/hr) x 1/2000 (ton/lbs) x 8,760 (hrs/yr)

Controlled Emissions (ton/yr) = Uncontrolled Emissions (ton/yr) x (1-% Control Efficiency)

The above information is from permit No. M053-29826-00001, issued on November 17, 2010.

**Appendix A: Emission Calculations  
Lead Stripper**

**Company Name:** General Cable Industries, Inc.  
**Address City IN Zip:** 440 East 8th Street, Marion, IN 46953  
**Permit Number:** M053-33909-00001  
**Plt ID:** 053-00001  
**Reviewer:** Tamera Wessel  
**Date:** November 21, 2013

Facility Description	Control Device	Control Efficiency (%)	Max. Capacity (tons/hr)	Stack ID	Max. Amount Stripped (tons/yr)
One (1) lead stripper (ID # 8)	CC#8	95.00%	18	N/A *	78.84

**Emissions**

Pollutant	Stripper		Total Uncontrolled Emissions (ton/yr)	Total Controlled Emissions (ton/yr)
	Emission Factor (lb/ton)	Uncontrolled Emissions (ton/yr)		
PM	0.169	13.32	1.33	13.32
PM <sub>10</sub>	0.169	13.32	1.33	13.32
PM <sub>2.5</sub>	0.169	13.32	1.33	13.32
HAP (Pb)	0.00029	0.02	0.0023	0.02
VOC **	n/a	negl.	negl.	negl.

- Notes: 1) PM and PM<sub>10</sub> emission factors for Lead lines are based on the stack test performed on September 1995 at this facility, because no testing for these pollutants was conducted in 2000 or later.  
2) Lead (Pb) emission factors for Lead lines are based on the stack test performed on August 23, 1999 at this facility, because no testing for this pollutant was conducted in 2004 or later.  
3) Lead (Pb) emission factor for Lead stripper is based on the stack test performed on November 9, 1999 at this facility, because no testing for this pollutant was conducted in 2004 or later.  
VOC emissions from the lead stripper do not contain any other HAP; lead is the only HAP that is emitted.  
\*\* Emissions from the solvent wash pot exhaust to SS-52; all other emission points on the lead stripper line exhaust to the HEPA cartridge (CC#8) and are then vented indoors.

**Methodology:**

Potential Emissions tons/yr = Emission factor (lb/ton) x maximum capacity (tons/hr) / 2000 lb/ton x 8760 hrs/yr

The above information is from permit No. M053-29826-00001, issued on November 17, 2010.

**Appendix A: Emission Calculations**  
**HAP Emission Calculations**

**Company Name:** General Cable Industries, Inc.  
**Address City IN Zip:** 440 East 8th Street, Marion, IN 46953  
**Permit Number:** M053-33909-00001  
**Plt ID:** 053-00001  
**Reviewer:** Tamera Wessel  
**Date:** November 21, 2013

**UNCONTROLLED POTENTIAL EMISSIONS**

Facility / Operation	Lead Stripper	Lead Lines	<b>Total</b>
	tons/yr	tons/yr	tons/yr
HAP Pollutant			
Lead	0.02	0.15	0.18
Toluene	0.00	2.33	2.33
<b>Total HAPs (tons/yr)</b>	<b>0.02</b>	<b>2.48</b>	<b>2.51</b>

Highest Individual HAP =      Lead                      Toluene

**Methodology:**

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu

The above information is from permit No. M053-29826-00001, issued on November 17, 2010.

**Appendix A: VOC Fugitive Emission  
Extrusion**

**Company Name: General Cable Industries, Inc.  
Address City IN Zip: 440 East 8th Street, Marion, IN 46953  
Permit Number: M053-33909-00001  
Plt ID: 053-00001  
Reviewer: Tamera Wessel  
Date: November 21, 2013**

**PTE from Polymer Extrusion**

Process	Max. Throughput (tons/yr)	General Ventilation (GV)		General Ventilation (GV)		General Ventilation (GV)	
		PM Emission Factor (lb/ton)	PM Emissions (ton/yr)	VOC Emission Factor (lb/ton)	VOC Emissions (ton/yr)	Acetophenone EF (lb/ton)	Acetophenone Emissions (ton/yr)
		CV-1*	2,628.0	0.4844	0.64	0.2563	0.34
CV-2	1,163.6	0.4844	0.28	0.2563	0.15	0.001078	1.25
CV-3	846.3	0.4844	0.20	0.2563	0.11	0.001078	0.91
CV-4	1,327.3	0.4844	0.32	0.2563	0.17	0.001078	1.43
CV-5*	1,971.0	0.4844	0.48	0.2563	0.25	0.001078	2.12
<b>Total Potential Emissions:</b>			<b>1.92</b>		<b>1.02</b>		<b>8.56</b>

**Note:**  
Emissions are the result of extrusion of a polymer coating over copper wire which has been prepared by the stranding and rewind lines.  
CV = Continuous vulcanization.

**Methodology:**  
Acetophenone Emission Factor was provided by source.  
PM and VOC Emission Factors are from "Development of Emission Factors for Polyethylene Processing," Journal of the Air and Waste Management Association, Volume 46, June 1996.

The above information is from permit No. M053-29826-00001, issued on November 17, 2010.

**Appendix A: Emissions Calculations  
Welding for CCW Line**

**Company Name: General Cable Industries, Inc.  
Address City IN Zip: 440 East 8th Street, Marion, IN 46953  
Permit Number: M053-33909-00001  
Pit ID: 053-00001  
Reviewer: Tamera Wessel  
Date: November 21, 2013**

PROCESS	Number of Stations	Max. electrode consumption per station (lbs/hr)	EMISSION FACTORS* (lb pollutant/lb electrode)				EMISSIONS (lbs/hr)				HAPS (lbs/hr)
			PM = PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr	
WELDING											
Tungsten Inert Gas (TIG)	2	1	0.0055	0.0005			0.011	0.001	0.000	0	0.001
<b>EMISSION TOTALS</b>											
Potential Emissions lbs/hr							0.01	1.000E-03	0.00	0.00	0.00
Potential Emissions lbs/day							0.26	0.02	0.00	0.00	0.02
Potential Emissions tons/year							0.05	4.380E-03	0.00	0.00	4.380E-03

**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)  
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 Only

Boiler 1

Company Name: General Cable Industries, Inc.  
 Address City IN Zip: 440 East 8th Street, Marion, IN 46953  
 Permit Number: M053-33909-00001  
 Pit ID: 053-00001  
 Reviewer: Tamera Wessel  
 Date: November 21, 2013

Heat Input Capacity MMBtu/hr	HHV mmBtu mmscf	Potential Throughput MMCF/yr
48.0	1020	412.2

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx 100 **see below	VOC	CO
Potential Emission in tons/yr	0.4	1.6	1.6	0.1	20.6	1.1	17.3

\*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.  
 PM2.5 emission factor is filterable and condensable PM2.5 combined.  
 \*\*Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

**Methodology**

All emission factors are based on normal firing.  
 MMBtu = 1,000,000 Btu  
 MMCF = 1,000,000 Cubic Feet of Gas  
 Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03  
 Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu  
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

**HAPS Calculations**

Emission Factor in lb/MMcf	HAPs - Organics					Total - Organics
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	
Potential Emission in tons/yr	4.328E-04	2.473E-04	1.546E-02	3.710E-01	7.008E-04	3.879E-01

Emission Factor in lb/MMcf	HAPs - Metals					Total - Metals
	Lead	Cadmium	Chromium	Manganese	Nickel	
Potential Emission in tons/yr	1.031E-04	2.267E-04	2.886E-04	7.832E-05	4.328E-04	1.130E-03
	<b>Total HAPs</b>					<b>3.890E-01</b>
	<b>Worst HAP</b>					<b>3.710E-01</b>

Methodology is the same as above.  
 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 Calculations**

Emission Factor in lb/MMcf	Greenhouse Gas		
	CO2	CH4	N2O
Potential Emission in tons/yr	24,734	0.5	0.5
Summed Potential Emissions in tons/yr	24,735		
CO2e (tons/yr) based on 10/30/2009 federal GWPs	24,885		
CO2e (tons/yr) based on 11/29/2013 federal GWPs	24,881		

**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) based on 10/30/2009 federal GWPs = 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).  
 CO2e (tons/yr) based on 11/29/2013 federal GWPs = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (25) + N2O Potential Emission ton/yr x N2O GWP (298).

**Appendix A: Emission Calculations  
ESP Lead Stripper**

**Company Name: General Cable Industries, Inc.**  
**Address City IN Zip: 440 East 8th Street, Marion, IN 46953**  
**Permit Number: 053-33395-00001**  
**Plt ID: 053-00001**  
**Reviewer: Tamera Wessel**  
**Date: November 21, 2013**

Facility Description	Max. Capacity (lbs/hr)	Max. Capacity (tons/hr)
ESP Lead stripper	3000	1.05

**Methodology:**

326 IAC 6-3-2 Limits =  $4.10 * (\text{maximum capacity tons/yr})^{0.67}$

**Emissions**

Pollutant	Emission Factor (lb/ton)	Uncontrolled Potential Emissions (lbs/hr)	Uncontrolled Potential Emissions (ton/yr)
PM	0.169	0.18	0.78
PM <sub>10</sub>	0.169	0.18	0.78
PM <sub>2.5</sub>	0.169	0.18	0.78
HAP (Pb)	0.00029	0.00	0.0013
VOC **	n/a	negl.	negl.

**Methodology:**

Uncontrolled Potential Emissions lbs/hr = Emission factor (lb/ton) x maximum capacity (tons/hr)

Uncontrolled Potential Emissions tons/yr = potential emissions lb/hr / 2000 lb/ton x 8760 hrs/yr

## Note:

Emission factors provide by the source from the testing based on the following test dates:

PM, PM10 emissions factors for the lead lines are based on the stack test performed on September 1995 at this source.

Lead (Pb) emission factor for the lead stripper is based on the stack test performed on Nov 9, 1999 at this source.

**Appendix A: Emissions Calculations  
Degreasers**

**Company Name: General Cable Industries, Inc.  
Address City IN Zip: 440 East 8th Street, Marion, IN 46953  
Permit Number: M053-33909-00001  
Reviewer: Tamera Wessel  
Date: November 21, 2013**

Emission units	Density (Lb/Gal)	Weight % Organics	Volume % Water	Throughput of Solvent (Gals/yr)	Potential VOC (pounds per year)	Potential VOC (tons per year)
PW-1	6.7	100.0%	0.0%	10.0	67.00	0.03
PW-2			0.0%	60.0	402.00	0.20
PW-3			0.0%			
PW-4			0.0%			

**Total: 469.00 0.23**

**Note:**

The annual throughput of solvent, provided by the source was 7 gallons per year for all units in 2012. The conservative amount ( annual throughput times ten) was used for the above calculation.

**METHODOLOGY**

Potential VOC (Pounds per year) = Annual throughput of solvent (gals/year) \* density (lbs/gal)  
 Potential VOC Tons per year) = Annual throughput of solvent (gals/year) \* density (lbs/gal)/2000 (lbs/ton)

**Appendix A: Emission Calculations**  
**THHN Line**

**Company Name: General Cable Industries, Inc.**  
**Address City IN Zip: 440 East 8th Street, Marion, IN 46953**  
**Permit Number: 053-33395-00001**  
**Plt ID: 053-00001**  
**Reviewer: Tamera Wessel**  
**Date: November 21, 2013**

VOC Emissions - Extrusion						
Emission Unit ID	Material Type	Maximum Process Weight (lbs/hr)	Maximum Process Weight (tons/yr)	VOC Emission factor (lbs/MMlbs)*	VOC Emissions (lbs/hr)	VOC Emissions (tons/yr)
THHN Line	PVC	1200	5,256.00	58	0.0696	0.30485
	PVC	150	657.00	58	0.0087	0.03811
	Nylon	150	657.00	58	0.0087	0.03811
<b>Total THHN VOC Emissions</b>					<b>0.087</b>	<b>0.38</b>

PM Emissions - Extrusion							
Emission Unit ID	Material Type	Maximum Process Weight (lbs/hr)	Maximum Process Weight (tons/yr)	PM/PM2.5/PM10 Emission factor (lbs/ton)**	PM/PM2.5/PM10 Emission factor (lbs/MMlbs)***	PM/PM2.5/PM10 Emissions (lbs/hr)	PM/PM2.5/PM10 Emissions (tons/yr)
THHN Line	PVC	1200	5,256.00	0.096	-	0.06	0.25
	PVC	150	657.00	0.096	-	7.19E-03	0.03
	Nylon	150	657.00	-	6	9.00E-04	3.94E-03
<b>Total THHN PM/PM10/PM2.5 Emissions</b>						<b>0.07</b>	<b>0.29</b>

HAP Emissions - Extrusion						
Emission Unit ID	Material Type	PM/PM2.5/PM10 Emissions (lbs/hr)	PM/PM2.5/PM10 Emissions (tons/yr)	Antimony Emission Factor (% by weight)****	Antimony Emissions (lbs/hr)	Antimony Emissions (tons/yr)
THHN Line	PVC	0.06	0.25	5.00%	2.87E-03	1.26E-02
	PVC	0.01	0.03	5.00%	3.59E-04	1.57E-03
	Nylon	9.00E-04	3.94E-03	0.00%	0.00E+00	0.00E+00
<b>Total THHN HAP (Antimony) Emissions</b>					<b>3.23E-03</b>	<b>0.01</b>

**Notes:**

\*VOC Emission Factor from "Emission Factor Development for the PVC Pipe Manufacturing Industry" December 1995

The emission factor for VOC was previously accepted for a similar process used for North American Bristol Coporation Permit # M039-20061-00064, issued October 17, 2006.

\*\*PM/PM2.5/PM10 Emission Factor taken from the following fact sheet, "Plastic Production and Products Manufacturing Emission Calculation Fact Sheet #9847 (Rev. 11/2005), Michigan DEQ (now MDNRE), Environmental Science and Services Division, November 2005

\*\*\*Emission Factor from Journal of Air & Waste Management Association Vol 51, July 2001 *Development of Emission Factors for Polyamide Processing*. Emission Factor approved for similar use in 111-29367-00023.

\*\*\*\*Antimony content from MSDS "GEON WEMB410 NAT 0000" Antimony Content.

**Methodology:**

VOC Emissions (lbs/hr) = Maximum Process Weight (lbs/hr) \* VOC Emission Factor / 1,000,000 (lbs per MMlbs)

VOC Emissions (tons/yr) = VOC Emissions (lbs/hr) \* 8760 (hours annual operation) / 2000 (lbs/ton)

PM/PM2.5/PM10 Emissions (lbs/hr) = Maximum Process Weight (lbs/hr) \* PM/PM2.5/PM10 Emission Factor / 2000 (lbs/ton)

PM/PM2.5/PM10 Emissions (tons/yr) = PM/PM2.5/PM10 Emissions (lbs/hr) \* 8760 (hrs/yr) / 2000 (lbs/ton)

Antimony Emissions (lbs/hr) = PM/PM2.5/PM10 Emissions (lbs/hr) \* Antimony content (% by Wt)

Antimony Emissions (tons/yr) = Antimony Emissions (lbs/hr) \* 8760 (hrs/yr) / 2000 (lbs/ton)

**Appendix A: Emission Calculations  
Fugitive Dust Emissions - Paved Roads**

**Company Name: General Cable Industries, Inc.  
Source Address: 440 East 8th Street, Marion, IN 46953  
Permit Number: M053-33909-00001  
Pit ID: 053-00001  
Reviewer: Tamera Wessel  
Date: November 21, 2013**

**Paved Roads at Industrial Site**

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

Vehicle Information (provided by source)

Type	Maximum number of vehicles per day	Number of one-way trips per day per vehicle	Maximum trips per day (trip/day)	Maximum Weight Loaded (tons/trip)	Total Weight driven per day (ton/day)	Maximum one-way distance (feet/trip)	Maximum one-way distance (mi/trip)	Maximum one-way miles (miles/day)	Maximum one-way miles (miles/yr)
Vehicle (entering plant) (one-way trip)	20.0	1.0	20.0	20.0	400.0	2700	0.511	10.2	3733.0
Vehicle (leaving plant) (one-way trip)	20.0	1.0	20.0	20.0	400.0	2700	0.511	10.2	3733.0
<b>Totals</b>			<b>40.0</b>		<b>800.0</b>			<b>20.5</b>	<b>7465.9</b>

Average Vehicle Weight Per Trip =  $\frac{20.0}{20.0}$  tons/trip  
Average Miles Per Trip =  $\frac{0.511}{20.0}$  miles/trip

Unmitigated Emission Factor,  $E_f = [k * (sL)^{0.91} * (W)^{1.02}]$  (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 =	20.0	20.0	20.0	tons = average vehicle weight (provided by source)
sL =	9.7	9.7	9.7	g/m <sup>2</sup> = 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,  $E_{ext} = E_f * [1 - (p/4N)]$  (Equation 2 from AP-42 13.2.1)

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

	PM	PM10	PM2.5	
Unmitigated Emission Factor, $E_f =$	1.847	0.369	0.0907	lb/mile
Mitigated Emission Factor, $E_{ext} =$	1.689	0.338	0.0829	lb/mile

Process	Unmitigated PTE of PM (tons/yr)	Unmitigated PTE of PM10 (tons/yr)	Unmitigated PTE of PM2.5 (tons/yr)	Mitigated PTE of PM (tons/yr)	Mitigated PTE of PM10 (tons/yr)	Mitigated PTE of PM2.5 (tons/yr)
Vehicle (entering plant) (one-way trip)	3.45	0.69	0.17	3.15	0.63	0.15
Vehicle (leaving plant) (one-way trip)	3.45	0.69	0.17	3.15	0.63	0.15
<b>Totals</b>	<b>6.89</b>	<b>1.38</b>	<b>0.34</b>	<b>6.30</b>	<b>1.26</b>	<b>0.31</b>

**Methodology**

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

**Abbreviations**

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



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

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**Michael R. Pence**  
*Governor*

**Thomas W. Easterly**  
*Commissioner*

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

TO: David Mooney  
General Cable Industries, Inc.  
440 E 8th Street  
Marion, IN 46953

DATE: March 13, 2014

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

SUBJECT: Final Decision  
Minor Source Operating Permit Renewal  
053-33909-00001

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:  
Lee Sneed, Responsible Official  
Brandon Snoddy, M3V, LLC  
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](mailto:jbrush@idem.IN.gov).

Final Applicant Cover letter.dot 6/13/2013



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**Michael R. Pence**  
*Governor*

**Thomas W. Easterly**  
*Commissioner*

March 13, 2014

TO: Marion Public Library

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

Subject: **Important Information for Display Regarding a Final Determination**

**Applicant Name: General Cable Industries, Inc.**  
**Permit Number: 053-33909-00001**

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 6/13/2013

# Mail Code 61-53

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1		David Mooney General Cable Industries, Inc. 440 E 8th Street Marion IN 46953 (Source CAATS)										
2		Lee Sneed Plant Manager General Cable Industries, Inc. 440 E 8th Street Marion IN 46953 (RO CAATS)										
3		Marion City Council and Mayors Office 301 S. Branson Street Marion IN 46952-4052 (Local Official)										
4		Grant County Commissioners 401 South Adams Marion IN 46953 (Local Official)										
5		Ms. Mary Shipley 10968 E 100 S Marion IN 46953 (Affected Party)										
6		Grant County Health Department 401 S. Adams St, Courthouse Complex Marion IN 46953-2031 (Health Department)										
7		Mr. Thomas Lee Clevenger 4005 South Franks Lane Selma IN 47383 (Affected Party)										
8		Marion Public Library 600 S Washington St Marion IN 46953 (Library)										
9		Brandon Snoddy M3V, LLC 11925 East 65th Street Indianapolis IN 46236 (Consultant)										
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