



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: December 14, 2011

RE: Hazen Paper Company / 137-31152-00022

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

Notice of Decision – Approval

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to 326 IAC 2, this approval was effective immediately upon submittal of the application.

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days from the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures
FNPER-AM.dot12/3/07



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George Hagen
Hazen Paper Company
604 Railroad Ave
Osgood, Indiana 47037

December 14, 2011

Re: 137-31152-00022
First Notice-Only Change to
M137-30462-00022

Dear George Hagen:

Hazen Paper Company was issued a Minor Source Operating Permit (MSOP) Renewal No. M137-30462-00022 on September 9, 2011 for a stationary specialty paper manufacturing operation located at 604 Railroad Ave, Osgood, Indiana 47037. On November 15, 2011, the Office of Air Quality (OAQ) received an application from the source requesting the removal of emission unit PW-1. Pursuant to the provisions of 326 IAC 2-6.1-6, the permit is hereby revised as follows with the deleted language as strikeouts and new language **bolded**.

1. The source requests the removal of the degreasing unit (PW-1) from the permit, since it was never installed. This removal of this emission unit is a notice only change, pursuant to 326 IAC 2-6.1-6, since it is a revision to descriptive information where the revision will not trigger a new applicable requirement or violate a permit term.

...

A.2 Emission Units and Pollution Control Equipment Summary

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

...

(g) ~~One (1) cold cleaning degreasing operation, identified as PW-1, constructed in 2006, with a maximum capacity of 0.055 gal/day; and~~

(hg) One (1) maintenance and grinding operation, constructed in 2006, control by dust collector DC1, exhausting to stack SDC-1, with a maximum air flow of 5,300 cfm.

...

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(g) ~~One (1) cold cleaning degreasing operation, identified as PW-1, constructed in 2006, with a maximum capacity of 0.055 gal/day; and~~

~~(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.3.1 Cold Cleaner Operations [326 IAC 8-3-2]~~

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

- ~~(1) Equip the cleaner with a cover;~~
- ~~(2) Equip the cleaner with a facility for draining cleaned parts;~~
- ~~(3) Close the degreaser cover whenever parts are not being handled in the cleaner;~~
- ~~(4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;~~
- ~~(5) Provide a permanent, conspicuous label summarizing the operation requirements;~~
- ~~(6) Store waste solvent only in covered containers and not dispose of waste solvent or transfer to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.~~

~~D.3.2 Cold Cleaner Degreaser Operation and Control [326 IAC 8-3-5]~~

~~(a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the owner or operator of the cold cleaner degreaser shall ensure that the following requirements are met:~~

- ~~(1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
 - ~~(A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));~~
 - ~~(B) The solvent is agitated; or~~
 - ~~(C) The solvent is heated.~~~~
- ~~(2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)); then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.~~
- ~~(3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).~~
- ~~(4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.~~
- ~~(5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if~~

~~the solvent is heated to a temperature greater than forty eight and nine tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):~~

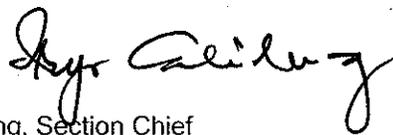
- ~~(A) A freeboard that attains a freeboard ratio of seventy five hundredths (0.75) or greater.~~
 - ~~(B) A water cover when solvent used is insoluble in, and heavier than, water.~~
 - ~~(C) Other systems demonstrated equivalent control such as a refrigerated chiller or carbon absorption. Such systems shall be submitted to the U. S. EPA as a SIP revision.~~
- ~~(b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of the cold cleaning facility shall ensure that the following operating requirements are met:~~
- ~~(1) Close the cover whenever articles are not being handled in the degreaser.~~
 - ~~(2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.~~
 - ~~(3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.~~

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

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

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Marcia Earl, of my staff, at 317-233-0863 or 1-800-451-6027, and ask for extension 3-0863.

Sincerely,



Iryn Calilung, Section Chief
Permits Branch
Office of Air Quality

Attachments: Updated Permit

IC/me

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



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Minor Source Operating Permit Renewal OFFICE OF AIR QUALITY

Hazen Paper Company
604 Railroad Ave
Osgood, Indiana 47037

(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.: M137-30462-00022	
Issued by:/Originally Signed by: Alfred C. Dumaul, Ph. D., Section Chief Permits Branch Office of Air Quality	Issuance Date: September 9, 2011 Expiration Date: September 9, 2021

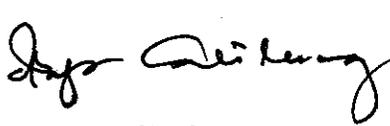
First Notice-Only Change No.:M137-31152-00022	
Issued by:  Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: December 14, 2011 Expiration Date: September 9, 2021

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[IC 13-14-1-13]

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SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 and A.2 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

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

The Permittee owns and operates a stationary specialty paper manufacturer.

Source Address:	604 Railroad Ave, Osgood, Indiana 47037
General Source Phone Number:	(812) 689-6502
SIC Code:	2672
County Location:	Ripley
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary

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

- (a) One (1) laminator, identified as L6, constructed in 2006, with a maximum capacity of 1,000 ft/min, exhausting to one (1) ozone and one (1) steam stack, with two (2) natural gas-fired Maxon oven packs for two (2) drying chambers, identified as L6D1 and L6D2, each with a maximum heat input of 3.45 MMBtu/hr, exhausting to stacks SL6-D1, SL6-D2. The coating and adhesive are applied by roll coating before the paper is laminated; this is done in line by a web-coating operation.
- (b) One (1) Cleaver Brooks natural gas-fired boiler, identified as CB-1, constructed in 1961, with a maximum heat input of 6.28 MMBtu/hr, exhausting to stack SCB-1;
- (c) One (1) Cleaver Brooks natural gas-fired boiler, identified as CB-2, constructed in 1967, with a maximum heat input of 4.19 MMBtu/hr, exhausting to stack SCB-2;
- (d) Five (5) existing natural gas-fired space heaters, identified as R1 through R5, constructed in 2001, with a maximum heat input of 0.2 MMBtu/hr each, exhausting to stacks SR-1 through SR-5;
- (e) One (1) Hurst natural gas-fired boiler, identified as H1, constructed in 2006, with a maximum heat input of 1.25 MMBtu/hr, exhausting to stack SH-1;
- (f) Three (3) natural gas-fired space heaters, identified as C1 through C3, constructed in 2006, with a total maximum heat input of 3.5 MMBtu;
- (g) One (1) maintenance and grinding operation, constructed in 2006, control by dust collector DC1, exhausting to stack SDC-1, with a maximum air flow of 5,300 cfm.

SECTION B GENERAL CONDITIONS

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

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

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

- (a) This permit, M137-30462-00022, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

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

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

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

B.4 Enforceability

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

B.5 Severability

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

B.6 Property Rights or Exclusive Privilege

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

B.7 Duty to Provide Information

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

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

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

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

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

- (a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:
 - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.The Permittee shall implement the PMPs.
- (b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:
 - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

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

The Permittee shall implement the PMPs.

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

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

- (a) All terms and conditions of permits established prior to M137-30462-00022 and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

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

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

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

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

Request for renewal shall be submitted to:

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

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

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

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

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (c) The Permittee shall notify the OAQ no later than thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

B.14 Source Modification Requièrent

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

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

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

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

- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilizes any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

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

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

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

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

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

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

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

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

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

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

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

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

C.3 Opacity [326 IAC 5-1]

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

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

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

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

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

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

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

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

C.7 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the attached plan as in Attachment A.

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

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

All required notifications shall be submitted to:

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

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

- (e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three

(3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

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

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

C.9 Performance Testing [326 IAC 3-6]

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

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

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

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date.
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

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

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

C.12 Instrument Specifications [326 IAC 2-1.1-11]

- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale

such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.

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

Corrective Actions and Response Steps

C.13 Response to Excursions or Exceedances

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

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

C.14 Actions Related to Noncompliance Demonstrated by a Stack Test

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

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

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

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

C.15 Malfunctions Report [326 IAC 1-6-2]

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

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

C.16 General Record Keeping Requirements [326 IAC 2-6.1-5]

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

C.17 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

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

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

- (b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

- (c) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) One (1) laminator, identified as L6, constructed in 2006, with a maximum capacity of 1,000 ft/min, exhausting to one (1) ozone and one (1) steam stack, with two (2) natural gas-fired Maxon oven packs for two (2) drying chambers, identified as L6D1 and L6D2, each with a maximum heat input of 3.45 MMBtu/hr, exhausting to stacks SL6-D1, SL6-D2. The coating and adhesive are applied by roll coating before the paper is laminated; this is done in line by a web-coating operation.

(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 Volatile Organic Compounds (VOC) Limitations (Paper Coating Operations) [326 IAC 8-2-5]

Pursuant to 326 IAC 8-2-5, the Permittee shall not allow or permit the discharge into the atmosphere of any VOC in excess of thirty-five hundredths (0.35) kilogram per liter of coating (two and nine-tenths (2.9) pounds per gallon) excluding water, delivered to the coating applicator.

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

A Preventive Maintenance Plan is required for the one (1) laminator, identified as L6. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements

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

Compliance with the VOC content limits contained in Condition D.1.1, shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) using formulations data supplied by the coating manufacture. However, IDEM, OAQ reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

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

D.1.4 Record Keeping Requirement

- (a) To document the compliance status with Condition D.1.1, the Permittee shall maintain records in accordance with (1) through (2) below. Records maintained for (1 through 2) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC content limits established in Condition D.1.1. Records necessary to demonstrate compliance shall be available no later than 30 days of the end of each compliance period.
- (1) The VOC content of each coating material and solvent used.
 - (2) The amount of coating material and solvent less water used on a monthly basis.
 - (A) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.
 - (B) Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvent.

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

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (b) One (1) Cleaver Brooks natural gas-fired boiler, identified as CB-1, constructed in 1961, with a maximum heat input of 6.28 MMBtu/hr, exhausting to stack SCB-1;
- (c) One (1) Cleaver Brooks natural gas-fired boiler, identified as CB-2, constructed in 1967, with a maximum heat input of 4.19 MMBtu/hr, exhausting to stack SCB-2;
- (d) Five (5) existing natural gas-fired space heaters, identified as R1 through R5, constructed in 2001, with a maximum heat input of 0.2 MMBtu/hr each, exhausting to stacks SR-1 through SR-5;
- (e) One (1) Hurst natural gas-fired boiler, identified as H1, constructed in 2006, with a maximum heat input of 1.25 MMBtu/hr, exhausting to stack SH-1;
- (f) Three (3) natural gas-fired space heaters, identified as C1 through C3, constructed in 2006, with a total maximum heat input of 3.5 MMBtu;

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

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

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

- (a) Pursuant to 326 IAC 6-2-3(d), the Cleaver Brooks boilers (CB-1 and CB-2) shall in no case exceed 0.8 pounds per MMBtu heat input.
- (b) Pursuant to 326 IAC 6-2-4(a), particulate emissions from the following indirect heating units shall be limited to the following:

Type of Unit	Maximum Heat Input Capacity (MMBtu/hr)	Q	Pt	Construction Date
Boiler H1	1.25	$10.47 + 1.25 = 11.72$	0.57	2006

This limitation is based on the following equation:

$$Pt = \frac{1.09}{Q^{0.26}}$$

Where:

- Pt = Pounds of particulate matter emitted per million Btu (lb/MMBtu) heat input; and
- Q = Total source maximum operating capacity rating in million Btu per hour (MMBtu/hr) heat input.

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

**MINOR SOURCE OPERATING PERMIT
ANNUAL NOTIFICATION**

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

Company Name:	Hazen Paper Company
Address:	604 Railroad Ave
City:	Osgood, Indiana 47037
Phone #:	(812) 689-6502
MSOP #:	M137-30462-00022

I hereby certify that Hazen Paper Company is :

still in operation.

no longer in operation.

I hereby certify that Hazen Paper Company is :

in compliance with the requirements of MSOP M137-30462-00022.

not in compliance with the requirements of MSOP M137-30462-00022.

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

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

Noncompliance:

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

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

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

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

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

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

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

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

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: _____

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

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

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: _____

MEASURES TAKEN TO MINIMIZE EMISSIONS: _____

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL* SERVICES: _____
CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: _____
CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: _____
INTERIM CONTROL MEASURES: (IF APPLICABLE) _____

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

MALFUNCTION RECORDED BY: _____ DATE: _____ TIME: _____

*SEE PAGE 2

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

326 IAC 1-6-1 Applicability of rule

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

326 IAC 1-2-39 "Malfunction" definition

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

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

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

Company Name: Hazen Paper Company
 Source Address: 604 Railroad Ave, Osgood, Indiana 47037
 Permit No: M137-31152-00022
 Reviewer: Marcia Earl
 Date: April 2011

Uncontrolled Emissions

Emission Units	PM	PM ₁₀	PM _{2.5}	SO ₂	NOx	VOC	CO	CO _{2e}	Total HAPs	Worst Case Single HAP
Coating Application	0.00	0.00	0.00	0.00	0.00	68.66	0.00	0.00	0.00	0.00
Adhesive Application	0.00	0.00	0.00	0.00	0.00	11.86	0.00	0.00	0.00	0.00
Natural Gas Combustion	0.19	0.75	0.75	0.06	9.92	0.55	8.34	11981	0.19	0.18 Hexane
Degreasing Operation	0.00	0.00	0.00	0.00	0.00	6.83E-02	0.00	0.00	0.00	0.00
Grinding Operation	0.19	0.19	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.38	0.94	0.94	0.06	9.92	81.07	8.34	11981	0.19	0.18 Hexane

Uncontrolled Emissions After Degreaser Unit Removed

Emission Units	PM	PM ₁₀	PM _{2.5}	SO ₂	NOx	VOC	CO	CO _{2e}	Total HAPs	Worst Case Single HAP
Coating Application	0.00	0.00	0.00	0.00	0.00	68.66	0.00	0.00	0.00	0.00
Adhesive Application	0.00	0.00	0.00	0.00	0.00	11.86	0.00	0.00	0.00	0.00
Natural Gas Combustion	0.19	0.75	0.75	0.06	9.92	0.55	8.34	11981	0.19	0.18 Hexane
Grinding Operation	0.19	0.19	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.38	0.94	0.94	0.06	9.92	81.07	8.34	11981	0.19	0.18 Hexane

Controlled Emissions

Emission Units	PM	PM ₁₀	PM _{2.5}	SO ₂	NOx	VOC	CO	CO _{2e}	Total HAPs	Worst Case Single HAP
Coating Application	0.00	0.00	0.00	0.00	0.00	68.66	0.00	0.00	0.00	0.00
Adhesive Application	0.00	0.00	0.00	0.00	0.00	11.86	0.00	0.00	0.00	0.00
Natural Gas Combustion	0.19	0.75	0.75	0.06	9.92	0.55	8.34	11981	0.19	0.18 Hexane
Degreasing Operation	0.00	0.00	0.00	0.00	0.00	6.83E-02	0.00	0.00	0.00	0.00
Grinding Operation	1.85E-02	1.85E-02	1.85E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.21	0.77	0.77	0.06	9.92	81.07	8.34	11981	0.19	0.18 Hexane

Controlled Emissions After Degreaser Unit Removed

Emission Units	PM	PM ₁₀	PM _{2.5}	SO ₂	NOx	VOC	CO	CO _{2e}	Total HAPs	Worst Case Single HAP
Coating Application	0.00	0.00	0.00	0.00	0.00	68.66	0.00	0.00	0.00	0.00
Adhesive Application	0.00	0.00	0.00	0.00	0.00	11.86	0.00	0.00	0.00	0.00
Natural Gas Combustion	0.19	0.75	0.75	0.06	9.92	0.55	8.34	11981	0.19	0.18 Hexane
Grinding Operation	1.85E-02	1.85E-02	1.85E-02	0.06	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.21	0.77	0.77	0.12	9.92	81.07	8.34	11981	0.19	0.18 Hexane

Appendix A: Emission Calculations
 VOC and Particulate
 From Surface Coating Operations

Company Name: Hazen Paper Company
 Source Address: 604 Railroad Ave, Osgood, Indiana 47037
 Permit No: M137-30462-00022
 Reviewer: Marcia Earl
 Date: April 2011

Emission Unit	Material	Density (lbs/gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % VOC	Volume % Water	Volume % Non-Volatiles (solids)	Usage Rate (gal/unit)	Maximum Throughput (unit/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM/PM10 (ton/yr)	lb VOC/gal solids	Transfer Efficiency*
Laminator (L6)	Confidential Coating	8.17	61.0%	57.1%	3.90%	55.9%	38.80%	0.41000	120.0	0.72	0.32	15.7	376	68.66	0.00	0.82	100%

State Potential Emissions

Totals 15.7 376 68.66 0.00

*Transfer efficiency assumed to be 100%. All materials are applied through roll coating in the Laminator (L6).

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * (Weight % VOC) / (1 - Volume % Water))

Pounds of VOC per Gallon Coating = (Density (lb/gal) * (Weight % VOC))

PTE of VOC (lbs/hr) = Pounds of VOC per Gallon coating (lb/gal) * Usage Rate (gal/unit) * Maximum (units/hr)

PTE of VOC (lbs/day) = Pounds of VOC per Gallon coating (lb/gal) * Usage Rate (gal/unit) * Maximum (units/hr) * (24 hr/day)

PTE of VOC (tons/yr) = Pounds of VOC per Gallon coating (lb/gal) * Usage Rate (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)

PTE of PM/PM10 (tons/yr) = Maximum Throughput (units/hour) * Usage Rate (gal/unit) * Density (lbs/gal) * (1 - Weight % Volatiles) * (1 - Transfer efficiency) * (8760 hrs/yr) * (1 ton/2000 lbs)

Pounds VOC per Gallon of Solids = (Density (lbs/gal) * (Weight % VOC) / (Volume % Non-Volatiles (solids)))

Appendix A: Emission Calculations
 VOC and Particulate
 From Surface Coating Operations

Company Name: Hazen Paper Company
 Source Address: 604 Railroad Ave, Osgood, Indiana 47037
 Permit No: M137-30462-00022
 Reviewer: Marcia Earl
 Date: April 2011

Emission Unit	Material	Density (lbs/gal)	Weight % VOC	Volume % Water	Usage Rate (gal/unit)	Maximum Throughput (unit/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)
Laminator (L6)	Confidential Adhesive	8.80	0.5%	61.0%	0.57	120	0.10	0.04	2.71	65.0	11.86

There are no particulate emissions from adhesive application. Adhesive is applied through roll coating in the Laminator (L6).

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * (Weight % VOC) / (1 - Volume % Water)

Pounds of VOC per Gallon Coating = (Density (lb/gal) * (Weight % VOC)

PTE of VOC (lbs/hr) = Pounds of VOC per Gallon coating (lb/gal) * Usage Rate (gal/unit) * Maximum (units/hr)

PTE of VOC (lbs/day) = Pounds of VOC per Gallon coating (lb/gal) * Usage Rate (gal/unit) * Maximum (units/hr) * (24 hr/day)

PTE of VOC (tons/yr) = Pounds of VOC per Gallon coating (lb/gal) * Usage Rate (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)

Appendix A: Emission Calculations
 Combustion Emissions from the Natural Gas-fired Boilers, Space Heaters, and Air Make-Up Units

Company Name: Hazen Paper Company
 Source Address: 604 Railroad Ave, Osgood, Indiana 47037
 Permit No: M137-30462-00022
 Reviewer: Marcia Earl
 Date: April 2011

Heat Input Capacity MMBtu/hr	HHV mmBtu mmscf	Potential Throughput MMCF/yr
23.11	1020	198.47

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	PM2.5*	SO2	NOx	VOC	CO
Potential Emission in tons/yr	1.90	7.60	7.60	0.60	100 **see below	5.50	84
	0.19	0.75	0.75	0.06	9.92	0.55	8.34

*PM emission factor is filterable PM only. PM10/PM2.5 emission factors are filterable and condensable combined.

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

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

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

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

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

Description	Emission Unit ID	Heat Input Capacity (MMBtu/hour)
Natural Gas Boiler	CB-1	6.28
Natural Gas Boiler	CB-2	4.19
Natural Gas Boiler	H1	1.25
Natural Gas Fired Space Heater	R1	0.20
Natural Gas Fired Space Heater	R2	0.20
Natural Gas Fired Space Heater	R3	0.20
Natural Gas Fired Space Heater	R4	0.20
Natural Gas Fired Space Heater	R5	0.20
Natural Gas Fired Space Heater	C1	0.90
Natural Gas Fired Space Heater	C2	1.30
Natural Gas Fired Space Heater	C3	1.30
Laminator Dryer	L6D1	3.45
Laminator Dryer	L6D2	3.45

TOTAL MMBtu/hr 23.11

Appendix A: Emissions Calculations
 Natural Gas Combustion Only
 MM BTU/HR <100
 HAPs Emissions

Company Name: Hazen Paper Company
 Source Address: 604 Railroad Ave, Osgood, Indiana 47037
 Permit No: M137-30462-00022
 Reviewer: Marcia Earl
 Date: April 2011

Heat Input Capacity MMBtu/hr	HHV mmBtu mmscf	Potential Throughput MMCF/yr
23.11	1020	198.47

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	2.08E-04	2.08E-04	7.44E-03	0.18	3.37E-04

HAPs - Metals					
Emission Factor in lb/MMcf	Lead	Cadmium	Chromium	Manganese	Nickel
	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	4.96E-05	1.09E-04	1.39E-04	3.77E-05	2.08E-04

Potential to emit Total HAPs = 0.19 tons/year

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

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

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

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

Appendix A: Emissions Calculations
 Natural Gas Combustion Only
 MM BTU/HR <100
 Greenhouse Gas Emissions

Company Name: Hazen Paper Company
 Address City IN Zip: 604 Railroad Ave, Osgood, Indiana 47037
 Permit Number: M137-30462-00022
 Reviewer: Marcia Earl
 Date: April 2011

Heat Input Capacity MMBtu/hr	HHV mmBtu mmscf	Potential Throughput MMCF/yr
23.11	1020	198.47

	Greenhouse Gas		
	CO2	CH4	N2O
Emission Factor in lb/MMcf	120000	2.3	2.2
Potential Emission in tons/yr	11908	0.23	0.22
Summed Potential Emissions in tons/yr	11909		
CO2e Total in tons/yr	11981		

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.
 Greenhouse Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
 $Emission (tons/yr) = Throughput (MMCF/yr) \times Emission Factor (lb/MMCF) / 2,000 lb/ton$
 $CO2e (tons/yr) = CO2 Potential Emission ton/yr \times CO2 GWP (1) + CH4 Potential Emission ton/yr \times CH4 GWP (21) + N2O Potential Emission ton/yr \times N2O GWP (310).$

Appendix A: Emission Calculations
 VOC and HAP Emissions
 Degreasing Operations

Company Name: Hazen Paper Company
 Source Address: 604 Railroad Ave, Osgood, Indiana 47037
 Permit No: M137-30462-00022
 Reviewer: Marcia Earl
 Date: April 2011

Material*	Maximum Usage (gal/day)	Density (lb/gal)	Maximum Usage (tons/yr)	Volatile Component (%)	PTE of VOC (tons/yr)	Total HAP Component (%)	PTE Total HAP (tons/yr)
Mineral Spirits	0.0550	6.80	6.83E-02	100.0%	6.83E-02	0.0%	0.00

METHODOLOGY

Usage (tons/yr) = Usage (gal/day) * Density (lb/gal) * 365 day/year * 1 ton/2000 Lb

PTE of VOC/HAP (tons/year) = Usage (tons/yr) * Volatile/HAP Component (%)

Appendix A: Emission Calculations
Grinding Operations

Company Name: Hazen Paper Company
Source Address: 604 Railroad Ave, Osgood, Indiana 47037
Permit No: M137-30462-00022
Reviewer: Marcia Earl
Date: April 2011

POTENTIAL TO EMIT IN TONS PER YEAR USING AMOUNT OF DUST COLLECTED

Control Efficiency (%)**	95.00%
Capture Efficiency (%)**	95.00%
Overall Control Efficiency (%)**	90.25%

Baghouse ID	Pollutant	Number of Filters	Dust Collected* (lbs/grind/filter)	No. of Grinds Per Year* (grinds/year)	Amount of Dust Collected	Uncontrolled Potential to Emit***		Controlled Potential to Emit****	
					(lbs/year)	(lbs/year)	(tons/year)	(lbs/year)	(tons/year)
DC-1	PM/PM10/PM2.5	3	1.10	104	343.20	380.28	0.19	37.1	1.85E-02

*The dust collected (lbs/grind/filter) was calculated by information from test grinds at the Massachussets Hazen Paper facility, where a dry filter was weighed before and after the grind. The number of grinds per year is based on 8760 hours per year.

**The control/capture efficiency data was taken from information from the American Air Filter Co., Inc.

***Uncontrolled Potential to Emit includes uncaptured dust, dust collected on filter, and dust that breaks through filter.

****Controlled Potential to Emit includes uncaptured dust and dust that breaks through filter.

Methodology

Overall Control Efficiency (%) = [Control Efficiency (%)] * [Capture Efficiency (%)]

Amount of Dust Collected (lbs/yr) = [Number of Filters] * [Dust Collected (lbs/grind/filter)] * [Number of Grinds per Year (grinds/year)]

Uncontrolled Potential to Emit (lbs/yr) = [Amount of Dust Collected (lbs/yr)] / [Overall Control Efficiency (%)]

Uncontrolled Potential to Emit (tons/yr) = [Uncontrolled Potential to Emit (lbs/year)] * [ton/2000 lbs]

Controlled Potential to Emit (lbs/yr) = [Uncontrolled Potential to Emit (lbs/yr)] * [1 - Overall Control Efficiency (%)]

Controlled Potential to Emit (tons/yr) = [Controlled Potential to Emit (lbs/year)] * [ton/2000 lbs]



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

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

TO: George Hagan
Hazen Paper Company
604 Railroad Ave
Osgood, IN 47037

DATE: December 14, 2011

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

SUBJECT: Final Decision
MSOP
137-31152-00022

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:
OAQ Permits Branch Interested Parties List

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

Final Applicant Cover letter.dot 11/30/07

Mail Code 61-53

IDEM Staff	CDENNY 12/14/2011 Hazen Paper Company 137-31152-00022 (final)		Type of Mail: CERTIFICATE OF MAILING ONLY	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender	▶	Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee
											Remarks
1		George Hagan Hazen Paper Company 604 Railroad Ave Osgood IN 47037 (Source CAATS)									
2		Timothy R McDonald VP - Tech Svcs Hazen Paper Company PO Box 189 Holyoke MA 01040 (RO CAATS)									
3		Ripley County Commissioners 115 North Main Street Rm 130 Versailles IN 47042 (Local Official)									
4		Ripley County Health Department 102 W 1st Street, Ste 106, P.O. Box 423 Versailles IN 47042-0423 (Health Department)									
5		Osgood Town Council 147 West Ripley Street Osgood IN 47037 (Local Official)									
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