



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

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(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

To: Interested Parties

Date: July 18, 2014

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

Source Name: Henry Pratt Company

Permit Level: Registration

Permit Number: 089-34634-00513

Source Location: 403 Conkey Street, Hammond, Indiana

Type of Action Taken: Changes that are administrative in nature

Notice of Decision: Approval - Registration

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the matter referenced above.

The final decision is available on the IDEM website at: <http://www.in.gov/apps/idem/caats/>
To view the document, select Search option 3, then enter permit 34634.

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

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

Pursuant to IC 4-21.5-3-4(d) this order is effective when it is served. When served by U.S. mail, the order is effective three (3) calendar days from the mailing of this notice pursuant to IC 4-21.5-3-2(e).

(continues on next page)

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



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Michael R. Pence
Governor

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Commissioner

Allan Olson, Plant Manager
Henry Pratt Company
403 Conkey Street
Hammond, IN 46324

July 18, 2014

Re: 089-34634-00513
Administrative Amendment to
R089-23364-00513

Dear Mr. Olson:

Henry Pratt Company was issued a Registration No. R089-23364-00513 on October 18, 2006 for a stationary steel water valve repair and touch-up operation located at 403 Conkey Street, Hammond, IN 46324. On June 13, 2014, the Office of Air Quality (OAQ) received an application from the source requesting the following:

- (a) to update the descriptive information for the one (1) Plasma/Plate Cutter, identified as (P-2) to indicate that the cutter has been modified and has an increased throughput from a maximum rate of 1000 to 1600 pounds per hour. In addition, the change in the potential to emit due to the increase of the maximum throughput is within the ranges under 326 IAC 2-1.1-3(e)(1) through 326 IAC 2-1.1-3(e)(31) (Exemptions).
- (b) to add Natural gas combustion units with a total combined maximum capacity of of 3.4 MMBtu/hour.

Pursuant to 326 IAC 2-5.5-6(d)(2)(B), this change to the registration is considered an administrative amendment because the registration is amended to indicate changes in descriptive information concerning the source or emission units.

The uncontrolled/unlimited potential to emit of the entire source after the modification of this emission unit will continue to be within the threshold levels specified in 326 IAC 2-5.1(b)(1)(Registration). See Appendix A for the revised PTE of the source after the modification of the existing emission unit.

Notes: Methyl ethyl ketone (MEK) was removed as a HAP. The U.S EPA delisted the compound methyl ethyl ketone (MEK, (2-Butanone, CAS No. 78-93-3) from the list of hazardous air pollutants (HAPs) contained in the Clean Air Act (section 112), effective December 19, 2005.

Emission factors approved by IDEM, OAQ were used to update the calculations for the potential to emit for the abrasive blasting (Shot/Grit Blaster (P-1) and for the Plasma/Plate Cutter (P-2). Use of these factors resulted in a change of the potential to emit for both units but the emissions units are still within the threshold levels specified in 326 IAC 2-5.1(b)(1)(Registration). See Appendix A for the revised PTE of these units.

The table below summarizes the potential to emit of the entire source after the issuance of this administrative amendment, reflecting all limits, of the emission units, using **bold** and strikeouts to show the changes:

Process/ Emission Unit	Potential To Emit of the Entire Source with the Revision (tons/year)*									
	PM	PM10	PM2.5	SO ₂	NOx	VOC	CO	GHGs as CO ₂ e**	Total HAPs	Worst Single HAP
Paint Booth (P-3)	13.09	13.09	13.09	-	-	15.33	-	-	7.18 (MEK)	7.18 (MEK)
Shot/Grit Blaster (P-1)	1.75 4.38	1.75 3.07	3.07	-	-	-	-	-	-	-
Plasma/Plate Cutter (P-2)	4.34 0.04	4.34 0.04	0.04	-	-	-	-	-	-	-
Natural Gas Combustion	0.03	0.11	0.11	0.01	1.46	0.08	1.23	1,762.41	0.03	0.03 (Hexane)
Paved Roads	0.03	0.01	0.00	-	-	-	-	-	-	-
Total PTE of Entire Source	16.15 17.51	16.15 16.19	16.19	0.01	1.46	15.41	1.23	1,762.41	7.18 0.03	7.18 0.03 (Hexane)
Registration Levels**	<25	<25	<25	<25	<25	<25	<100	<100,000	<25	<10

*These emissions are taken from Registration No.: 089-23364-00513, issued on October 18, 2006.
 **The 100,000 CO₂e threshold represents the Title V and PSD subject to regulation thresholds for GHGs in order to determine whether a source's emissions are a regulated NSR pollutant under Title V and PSD.

The table below summarizes the potential to emit of the entire source after issuance of this administrative amendment, reflecting all limits, of the emission units. (Note: the table below was generated from the above table, with bold text un-bolded and strikethrough text deleted).

Process/ Emission Unit	Potential To Emit of the Entire Source with the Revision (tons/year)*									
	PM	PM10	PM2.5	SO ₂	NOx	VOC	CO	GHGs as CO ₂ e**	Total HAPs	Worst Single HAP
Paint Booth (P-3)	13.09	13.09	13.09	-	-	15.33	-	-	-	-
Shot/Grit Blaster (P-1)	4.38	3.07	3.07	-	-	-	-	-	-	-
Plasma/Plate Cutter (P-2)	0.04	0.04	0.04	-	-	-	-	-	-	-
Natural Gas Combustion	0.03	0.11	0.11	0.01	1.46	0.08	1.23	1,762.41	0.03	0.03 (Hexane)
Paved Roads	0.03	0.01	0.00	-	-	-	-	-	-	-
Total PTE of Entire Source	17.51	16.19	16.19	0.01	1.46	15.41	1.23	1,762.41	0.03	0.03 (Hexane)
Registration Levels**	<25	<25	<25	<25	<25	<25	<100	<100,000	<25	<10

**The 100,000 CO₂e threshold represents the Title V and PSD subject to regulation thresholds for GHGs in order to determine whether a source's emissions are a regulated NSR pollutant under Title V and PSD.

Pursuant to 326 IAC 2-5.5-6, the registration is hereby amended as follows, with deleted language as ~~strikeouts~~ and new language **bolded**:

SECTION A SOURCE SUMMARY

A.2 Emission Units and Pollution Control Equipment Summary

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

- (b) One (1) Plasma/Plate Cutter, identified as (P-2), installed in 2006, **approved in 2014 for modification** to increase the throughput, with a maximum rate of ~~4000~~ **1600** pounds per hour of product throughput, and exhausting to stack (S-2).
- (d) **Natural gas combustion units with a total maximum capacity of 3.4 MMBtu/hour**
- (e) **Paved roads**

SECTION D.1 OPERATION CONDITIONS

Facility Description [326 IAC 2-5.1-2(f)(2)] [326 IAC 2-5.5-4(a)(2)]:

- (a) One (1) Shot/Grit Blaster, identified as (P-1), installed in 2006, with a maximum shot/grit throughput rate of 100 pounds per hour, using a jet-pulse baghouse (BH-1) as control, and exhausting to stack (S-1).
- (b) Plasma/Plate Cutter, identified as (P-2), installed in 2006, **approved in 2014 for modification** to increase the throughput, with a maximum rate of ~~4000~~ **1600** pounds per hour of product throughput, and exhausting to stack (S-2).
- (c) One (1) paint booth, identified as (P-3), installed in 2006, with a maximum rate of one (1) gallon per hour, using a dry filter media (F-1) as control, and exhausting to stack (S-3).

(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 2-5.1-2(f)(1)] [326 IAC 2-5.5-4(a)(1)]

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

- (b) Pursuant to 326 IAC 6-3-2(e), the particulate emissions from the Plasma Cutter (P-2) shall be limited to ~~2.58~~ **3.53** pounds per hour based on the process weight rate of ~~1000~~ **1600** pounds per hour:

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

$$P = \frac{0.5}{0.8} \text{ tons per hour}$$

$$E = \frac{4.10 \times (0.5^{0.67})}{0.8} = \frac{2.58}{0.8} \text{ pounds per hour} \\ E = 4.10 \times (0.8^{0.67}) = 3.53 \text{ pounds per hour}$$

D.1.2 Volatile Organic Compound (VOC) [326 IAC 8-2-9]

- (a) Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operation), the volatile organic compound (VOC) content of the coating delivered to the applicator at the paint booth (P-3), shall be limited to 3.5 pounds of VOC per gallon of coating less water; and
- (b) Solvent spray from application equipment during cleanup or color changes shall be directed into containers. Said containers shall be closed as soon as the solvent spraying is complete, and the waste solvent shall be disposed of in such a manner that the evaporation is minimized.

D.1.3 Volatile Organic Compound (VOC) Limitations, Clean-up Requirements [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9(f), work practices shall be used to minimize VOC emissions from mixing operations, storage tanks, and other containers, and handling operations for coatings, thinners, cleaning materials, and waste materials. Work practices shall include, but not limited to, the following:

- (a) Store all VOC containing coatings, thinners, coating related waste, and cleaning materials in closed containers.
- (b) Ensure that mixing and storage containers used for VOC containing coatings, thinners, coating related waste, and cleaning materials are kept closed at all times except when depositing or removing these materials.
- (c) Minimize spills of VOC containing coatings, thinners, coating related waste, and cleaning materials.
- (d) Convey VOC containing coatings, thinners, coating related waste, and cleaning materials from one (1) location to another in closed containers or pipes.
- (e) Minimize VOC emissions from the cleaning application, storage, mixing, and conveying equipment by ensuring that equipment cleaning is performed without atomizing the cleaning solvent and all spent solvent is captured in closed containers.

Compliance Determination Requirements

D.1.4 Volatile Organic Compounds (VOC) [326 IAC 8-1-2]

Compliance with the VOC usage limitations contained in Condition D.1.2 and shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer the copies of the "as supplied" and "as applied" VOC data sheets. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 325 IAC 8-1-4.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-2(g)] [326 IAC 2-5.5-4(b)]

D.1.5 Record Keeping Requirements

- (a) To document compliance with Condition D.1.2, the Registrant shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken as stated below and shall be complete and sufficient to establish compliance with the VOC usage limit established in condition D.1.2.

Records necessary to demonstrate compliance shall be available within thirty (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 solvents.**
- (3) **The cleanup solvent usage for each month;**
 - (4) **The total VOC emitted for each compliance period.**
 - (5) **The volume weighted average VOC content of the coatings used each day.**
- (b) **Section C - General Record Keeping Requirements contains the Registrant's obligations with regard to the records required by this condition.**

Greenhouse Gases

Pursuant to 326 IAC 2-7-1(39), starting July 1, 2011, greenhouse gases (GHGs) emissions are subject to regulation at a source with a potential to emit (PTE) 100,000 tons per year or more of CO2 equivalent emissions (CO2e). Therefore, CO2e emissions have been calculated for this source. Based on the calculations, the unlimited PTE GHGs from the entire source is less than 100,000 tons of CO2e per year (see Appendix A for the calculations). This did not require any changes to the registration.

The source shall continue to operate according to 326 IAC 2-5.5 (Registrations). All other conditions of the registration shall remain unchanged and in effect. Please find attached the entire registration as amended.

A copy of the registration is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>. For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Permit Guide on the Internet at: <http://www.in.gov/idem/5881.htm>; and the Citizens' Guide to IDEM on the Internet at: <http://www.in.gov/idem/6900.htm>.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Deborah Cole, at (800) 451-6027, ext. 4-5377, or (317) 234-5377.

Sincerely,



Iryn Calilung, Section Chief
Permits Branch
Office of Air Quality

IC/dac

Attachment: Revised Registration and Appendix A (Emissions Calculations)

cc: File - Lake County
Lake County Health Department
Compliance and Enforcement Branch



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REGISTRATION OFFICE OF AIR QUALITY

**Henry Pratt Company
403 Conkey Street
Hammond, Indiana 46324**

Pursuant to 326 IAC 2-5.1 (Construction of New Sources: Registrations) and 326 IAC 2-5.5 (Registrations), (herein known as the Registrant) is hereby authorized to construct and operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this registration.

Registration No. 089-23364-00513	
Original signed by: Ronald L. Novak, Director Hammond Department of Environmental Management	Issuance Date: October 18, 2006

Notice-Only Change No.: 089-28075-00513, issued on June 16, 2009

Administrative Amendment No.: 089-34634-00513	
Issued by:  Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: July 18, 2014

SECTION A

SOURCE SUMMARY

This registration 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 Registrant 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 Registrant to obtain additional permits pursuant to 326 IAC 2.

A.1 General Information

The Registrant owns and operates a stationary steel water valve repair and touch-up operation source.

Source Address:	403 Conkey Street, Hammond, Indiana 46324
General Source Phone Number:	(219) 931-0405
SIC Code:	3494 (Valves and Pipe Fittings Not Elsewhere Classified)
County Location:	Lake County
Source Location Status:	Nonattainment for the 8-hour ozone standard Attainment for all other criteria pollutants
Source Status:	Registration

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) Shot/Grit Blaster, identified as (P-1), installed in 2006, with a maximum shot/grit throughput rate of 100 pounds per hour, using a jet-pulse baghouse (BH-1) as control, and exhausting to stack (S-1).
- (b) One (1) Plasma/Plate Cutter, identified as (P-2), installed in 2006, approved in 2014 for modification to increase the throughput, with a maximum rate of 1600 pounds per hour of product throughput, and exhausting to stack (S-2).
- (c) One (1) paint booth, identified as (P-3), installed in 2006, with a maximum rate of one (1) gallon per hour, using a dry filter media (F-1) as control, and exhausting to stack (S-3).
- (d) Natural gas combustion units with a total maximum capacity of 3.4 MMBtu/hour
- (e) Paved roads

SECTION B GENERAL CONDITIONS

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

Terms in this registration 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 Effective Date of Registration [IC 13-15-5-3]

Pursuant to IC 13-15-5-3, this registration 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.

B.3 Registration Revocation [326 IAC 2-1.1-9]

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

- (a) Violation of any conditions of this registration.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this registration.
- (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 registration shall not require revocation of this registration.
- (d) For any cause which establishes in the judgment of the fact that continuance of this registration is not consistent with purposes of this article.

B.4 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to Registration No. R089-23364-00513 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 registration.

B.5 Annual Notification [326 IAC 2-5.1-2(f)(3)] [326 IAC 2-5.5-4(a)(3)]

Pursuant to 326 IAC 2-5.1-2(f)(3) and 326 IAC 2-5.5-4(a)(3):

- (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 registration.
- (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, IN 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.6 Source Modification Requirement [326 IAC 2-5.5-6(a)]

Pursuant to 326 IAC 2-5.5-6(a), an application or notification shall be submitted in accordance with 326 IAC 2 to the Office of Air Quality (OAQ) if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source.

B.7 Registrations [326 IAC 2-5.1-2(i)]

Pursuant to 326 IAC 2-5.1-2(i), this registration does not limit the source's potential to emit.

B.8 Preventive Maintenance Plan [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this registration, the Registrant shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this registration 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 Registrant's control, the PMPs cannot be prepared and maintained within the above time frame, the Registrant may extend the date an additional ninety (90) days provided the Registrant 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 Registrant shall implement the PMPs.

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

SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-5.1-2(g)] [326 IAC 2-5.5-4(b)]

C.1 Opacity [326 IAC 5-1]

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 registration:

- (a) Opacity shall not exceed an average of twenty percent (20%) 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.2 Fugitive Dust Emissions [326 IAC 6-4]

The Registrant 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.3 Fugitive Dust Emissions [326 IAC 6.8-10-3]

Pursuant to 326 IAC 6.8-10-3 (formerly 326 IAC 6-1-11.1) (Lake County Fugitive Particulate Matter Control Requirements), the particulate matter emissions from source wide activities shall meet the following requirements:

- (a) The average instantaneous opacity of fugitive particulate emissions from a paved road shall not exceed ten percent (10%).
- (b) The average instantaneous opacity of fugitive particulate emissions from an unpaved road shall not exceed ten percent (10%).
- (c) The opacity of fugitive particulate emissions from exposed areas shall not exceed ten percent (10%) on a six (6) minute average.
- (d) The opacity of fugitive particulate emissions from continuous transfer of material onto and out of storage piles shall not exceed ten percent (10%) on a three (3) minute average.
- (e) The opacity of fugitive particulate emissions from storage piles shall not exceed ten percent (10%) on a six (6) minute average.
- (f) There shall be a zero (0) percent frequency of visible emission observations of a material during the inplant transportation of material by truck or rail at any time.
- (g) The opacity of fugitive particulate emissions from the inplant transportation of material by front end loaders and skip hoists shall not exceed ten percent (10%).
- (h) Material processing facilities shall include the following:
 - (1) There shall be a zero (0) percent frequency of visible emission observations from

- a building enclosing all or part of the material processing equipment, except from a vent in the building.
- (2) The PM10 emissions from building vents shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.
 - (3) The PM10 stack emissions from a material processing facility shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.
 - (4) The opacity of fugitive particulate emissions from the material processing facilities, except a crusher at which a capture system is not used, shall not exceed ten percent (10%) opacity.
 - (5) The opacity of fugitive particulate emissions from a crusher at which a capture system is not used shall not exceed fifteen percent (15%).
- (i) The opacity of particulate emissions from dust handling equipment shall not exceed ten percent (10%).
 - (j) Material transfer limits shall be as follows:
 - (1) The average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%).
 - (2) Where adequate wetting of the material for fugitive particulate emissions control is prohibitive to further processing or reuse of the material, the opacity shall not exceed ten percent (10%), three (3) minute average.
 - (3) Slag and kish handling activities at integrated iron and steel plants shall comply with the following particulate emissions limits:
 - (A) The opacity of fugitive particulate emissions from transfer from pots and trucks into pits shall not exceed twenty percent (20%) on a six (6) minute average.
 - (B) The opacity of fugitive particulate emissions from transfer from pits into front end loaders and from transfer from front end loaders into trucks shall comply with the fugitive particulate emission limits in 326 IAC 6.8-10-3(9).
 - (k) Any facility or operation not specified in 326 IAC 6.8-10-3 shall meet a twenty percent (20%), three (3) minute average opacity standard.

The Registrant shall achieve these limits by controlling fugitive particulate matter emissions according to the Fugitive Dust Control Plan, which is included as Attachment A to this registration.

SECTION D.1

OPERATION CONDITIONS

Facility Description [326 IAC 2-5.1-2(f)(2)] [326 IAC 2-5.5-4(a)(2)]:

- (a) One (1) Shot/Grit Blaster, identified as (P-1), installed in 2006, with a maximum shot/grit throughput rate of 100 pounds per hour, using a jet-pulse baghouse (BH-1) as control, and exhausting to stack (S-1).
- (b) One (1) Plasma/Plate Cutter, identified as (P-2), installed in 2006, approved in 2014 for modification, with a maximum rate of 1600 pounds per hour of product throughput, and exhausting to stack (S-2).
- (c) One (1) paint booth, identified as (P-3), installed in 2006, with a maximum rate of one (1) gallon per hour, using a dry filter media (F-1) as control, and exhausting to stack (S-3).

(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 2-5.1-2(f)(1)] [326 IAC 2-5.5-4(a)(1)]

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

- (a) Pursuant to 326 IAC 6-3-2(e), the particulate emissions from the Shot/Grit Blaster (P-1) shall be limited to 0.551 pounds per hour based on the process weight rate of 100 pounds of shot/grit throughput per hour and the following equation from the rule:

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

$$P = 0.05 \text{ tons per hour}$$

$$E = 4.10 \times (0.05^{0.67}) = 0.551 \text{ pounds per hour}$$

- (b) Pursuant to 326 IAC 6-3-2(e), the particulate emissions from the Plasma Cutter (P-2) shall be limited to 3.53 pounds per hour based on the process weight rate of 1600 pounds per hour:

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

$$P = 0.8 \text{ tons per hour}$$

$$E = 4.10 \times (0.8^{0.67}) = 3.53 \text{ pounds per hour}$$

- (c) Pursuant to 326 IAC 6-3-2(d), Paint Booth (P-3) shall be controlled by a dry filter, water - wash, or an equivalent control, subject to the following:
 - (1) The source shall operate the control device in accordance with manufacturer's specifications.
 - (2) If overspray is visibly detected at the exhaust or accumulates on the ground, the source shall inspect the control device and do either of the following no later than four (4) hours after such observation:

- (A) Repair control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
- (B) Operate equipment so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
- (3) If overspray is visibly detected, the source shall maintain a record of the action taken as a result of the inspection, any repairs of the control device, or change in operations, so that overspray is not visibly detected at the exhaust or accumulates on the ground. These records must be maintained for five (5) years.

D.1.2 Volatile Organic Compound (VOC) [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operation), the volatile organic compound (VOC) content of the coating delivered to the applicator at the paint booth (P-3), shall be limited to 3.5 pounds of VOC per gallon of coating less water; and

D.1.3 Volatile Organic Compound (VOC) Limitations, Clean-up Requirements [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9(f), work practices shall be used to minimize VOC emissions from mixing operations, storage tanks, and other containers, and handling operations for coatings, thinners, cleaning materials, and waste materials. Work practices shall include, but not limited to, the following:

- (a) Store all VOC containing coatings, thinners, coating related waste, and cleaning materials in closed containers.
- (b) Ensure that mixing and storage containers used for VOC containing coatings, thinners, coating related waste, and cleaning materials are kept closed at all times except when depositing or removing these materials.
- (c) Minimize spills of VOC containing coatings, thinners, coating related waste, and cleaning materials.
- (d) Convey VOC containing coatings, thinners, coating related waste, and cleaning materials from one (1) location to another in closed containers or pipes.
- (e) Minimize VOC emissions from the cleaning application, storage, mixing, and conveying equipment by ensuring that equipment cleaning is performed without atomizing the cleaning solvent and all spent solvent is captured in closed containers.

Compliance Determination Requirements

D.1.4 Volatile Organic Compounds (VOC) [326 IAC 8-1-2]

Compliance with the VOC usage limitations contained in Condition D.1.2 and shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer the copies of the "as supplied" and "as applied" VOC data sheets. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 325 IAC 8-1-4.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-2(g)] [326 IAC 2-5.5-4(b)]

D.1.5 Record Keeping Requirements

- (a) To document compliance with Condition D.1.2, the Registrant shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken as stated below and shall be complete and sufficient to establish compliance with

the VOC usage limit established in condition D.1.2.

Records necessary to demonstrate compliance shall be available within thirty (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 solvents.
 - (3) The cleanup solvent usage for each month;
 - (4) The total VOC emitted for each compliance period.
 - (5) The volume weighted average VOC content of the coatings used each day.
- (b) Section C - General Record Keeping Requirements contains the Registrant's obligations with regard to the records required by this condition.

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

**REGISTRATION
ANNUAL NOTIFICATION**

This form should be used to comply with the notification requirements under 326 IAC 2-5.1-2(f)(3) and 326 IAC 2-5.5-4(a)(3).

Company Name:	Henry Pratt Company
Address:	403 Conkey Street
City:	Hammond, Indiana 46324
Phone Number:	(219) 931-0405
Registration No.:	089-23364-00513

I hereby certify that Henry Pratt Co. is:

- still in operation.
- no longer in operation.
- in compliance with the requirements of Registration No. R089-23364-00513.
- not in compliance with the requirements of Registration No. R089-23364-00513.

I hereby certify that Henry Pratt Co. is:

Authorized Individual (typed):
Title:
Signature:
Phone Number:
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:

**Appendix A: Emissions Calculations
Source-wide Summary**

Company Name: Henry Pratt Company
Address City IN Zip: 403 Conkey Street, Hammond, IN 46324
Registration No.: 089-23364-00513
Administrative Amendment No.: 089-34634-00513
Reviewer: Deborah Cole

Potential to Emit of Entire Source											
Emission Unit	PM (tons/yr)	PM10 (tons/yr)	PM2.5 (tons/yr)	SO2 (tons/yr)	NOx (tons/yr)	VOC (tons/yr)	CO (tons/yr)	GHGs (tons/yr)	Total HAPs (tons/yr)	Worst Single HAP	HAP
Paint Booth (P-3)	13.09	13.09	13.09	0.00	0.00	15.33	0.00	0.00	0.00	0.00	
Shot/Grit Blaster (P-1)	4.38	3.07	3.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Plasma/Plate Cutter (P-2)	0.04	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Natural Gas Combustion	0.03	0.11	0.11	0.01	1.46	0.08	1.23	1,762.41	0.03	0.03	Hexane
Paved Roads	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total	17.51	16.19	16.19	0.01	1.46	15.41	1.23	1,762.41	0.03	0.03	Hexane

Calculations are based on 8760 hours of operation.

Company Name: Henry Pratt Company
 Address City IN Zip: 403 Conkey Street, Hammond, IN 46324
 Registration No.: 089-23364-00513
 Administrative Amendment No.: 089-34634-00513
 Reviewer: Deborah Cole

Paint Booth (P-3) Stack S-3

MDR (gal/hr): 1
 YEARLY PROD (gal/yr): N/A

STACK ID (DIAM:HEIGHT): (3.5': 12')
 FLOWRATE (ACFM): 15,000
 Ts(°F): 85

CNTRL DEV Dry Filter Media (F-1)

PERMITTED OPERATING HRS: **8760** hr/yr

SCC #4-02-001-10			POTENTIAL EMISSIONS					
POLLUTANT	EF(lb/gal)	CE (%)	BEFORE CONTROLS			AFTER CONTROLS		
			(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)
PM	2.99	0.80	2.99	71.72	13.09	0.598	2.618	0.0048
PM10	2.99	0.80	2.99	71.72	13.09	0.598	2.618	0.0048
SOx	0	0	0.00	0.00	0.00	0.000	0.000	N/A
NOx	0	0	0.00	0.00	0.00	0.000	0.000	N/A
VOC	3.5	0	3.50	84.00	15.33	3.500	15.330	N/A
CO	0	0	0.00	0.00	0.00	0.000	0.000	N/A
single HAP	0.67	0	0.67	16.00	2.92	0.667	2.920	N/A
total HAPs	1.64	0	1.64	39.36	7.18	1.640	7.183	N/A

EF for PM & PM10 = (22,414 lbs of solids sprayed) X (40% overspray) ÷ (3000 operating hours) (2005 data from Dixon, IL facility)

EF for VOC = 326 IAC 8-2-9(d) VOC content limit - 3.5 lbs/gal.

EF for single HAP = (1.0 tons MEK) X (2000 lbs/ton) ÷ (3000 operating hours) (2005 data from Dixon, IL facility)

EF for total HAPs = (2.46 tons total HAPs) X (2000 lbs/ton) ÷ (3000 operating hours) (2005 data from Dixon, IL facility)

PM: 326 IAC 6-3-2 (d), (d)(1), and (d)(2) apply, work practices and control technologies.
 326 IAC 6-3-2 (e) does not apply because control methods of subsection (d) apply.

This is a repair and touch-up shop < 3000 gallons/yr, < 6 tpy VOC.

VOC: 326 IAC 8-2-9(d) - 3.5 lbs/gal

**Appendix A: Emission Calculations
Abrasive Blasting - Confined**

**Company Name: Henry Pratt Company
Address City IN Zip: 403 Conkey Street, Hammond, IN 46324
Registration No.: 089-23364-00513
Administrative Amendment No.: 089-34634-00513
Reviewer: Deborah Cole**

Table 1 - Emission Factors for Abrasives

Abrasive	Emission Factor (EF)	
	lb PM / lb abrasive	lb PM10 / lb PM
Sand	0.041	0.70
Grit	0.010	0.70
Steel Shot	0.004	0.86
Other	0.010	

Potential to Emit Before Control			
FR = Flow rate of actual abrasive (lb/hr) =	100.00	lb/hr (per nozzle)	
w = fraction of time of wet blasting =	0	%	
N = number of nozzles =	1		
EF = PM emission factor for actual abrasive from Table 1 =	0.010	lb PM/ lb abrasive	
PM10 emission factor ratio for actual abrasive from Table 1 =	0.70	lb PM10 / lb PM	
	PM	PM10	
Potential to Emit (before control) =	1.00	0.70	lb/hr
=	24.00	16.80	lb/day
=	4.38	3.07	ton/yr

Potential to Emit After Control			
		PM	PM10
Emission Control Device Efficiency =	96.0%	96.0%	
Potential to Emit (after control) =	0.04	0.03	lb/hr
=	0.96	0.67	lb/day
=	0.18	0.12	ton/yr

METHODOLOGY

Emission Factors from STAPPA/ALAPCO "Air Quality Permits", Vol. I, Section 3 "Abrasive Blasting" (1991 edition)

Potential to Emit (before control) = EF x FR x (1 - w/200) x N (where w should be entered in as a whole number (if w is 50%, enter 50))

Potential to Emit (after control) = [Potential to Emit (before control)] * [1 - control efficiency]

Potential to Emit (tons/year) = [Potential to Emit (lbs/hour)] x [8760 hours/year] x [ton/2000 lbs]

**Appendix A: Emissions Calculations
Plasma Cutting**

**Company Name: Henry Pratt Company
Address City IN Zip: 403 Conkey Street, Hammond, IN 46324
Registration No.: 089-23364-00513
Administrative Amendment No.: 089-34634-00513
Reviewer: Deborah Cole**

PROCESS	Number of Stations	Max. electrode Thickness Cut (in.)	Max. Metal Cutting Rate (in./minute)	EMISSION FACTORS*				EMISSIONS				HAPS
				EMISSION FACTORS (lb pollutant/1,000 inches cut, 1" thick)**				EMISSIONS (lbs/hr)				HAPS (lbs/hr)
				PM = PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr	
Plasma**	1	0.25	140	0.0039				0.008	0.000	0.000	0.000	0.000
EMISSION TOTALS												
Potential Emissions lbs/hr								0.01	0.00	0.00	0.00	0.00
Potential Emissions lbs/day								0.20	0.00	0.00	0.00	0.00
Potential Emissions tons/year								0.04	0.00	0.00	0.00	0.00

Methodology:

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

**Emission Factor for plasma cutting from American Welding Society (AWS). Trials reported for wet cutting of 8 mm thick mild steel with 3.5 m/min cutting speed (at 0.2 g/min emitted). Therefore, the

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

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

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

326 IAC 6-3-2(e) Allowable Rate of Emissions

Process	Process Rate (materials throughput) (lbs/hr)	Process Weight Rate (tons/hr)	Allowable PM Emissions (lbs/hr)	Allowable PM Emissions (tons/yr)
Plasma Cutting	1,600	0.80	3.53	15.46
TOTAL	1,600	0.80	3.53	15.46

Methodology

Allowable Emissions (E) (lb/hr) = 4.10(Process Weight Rate)^0.67

Allowable Emissions (tons/yr) = (Allowable Emissions (lb/hr)*8760)/2000

Natural Gas Combustion Only

MM BTU/HR <100

Company Name: Henry Pratt

Address: 403 Conkey Street, Hammond, IN 46324

Rebistration Number: 089-23364-00513

Administrative Amendment Number: 089-34634-00513

Permit Reviewer: Deborah Cole

Emission Units	Number	Heat Input Capacity MMBtu/hr	HHV	Potential Throughput MMCF/yr
			mmBtu mmscf	
Shop Large IR Heaters	7	1.05	1020	9.02
Shop Large IR Heaters	12	1.80	1020	15.46
IR Space Heaters	3	0.15	1020	1.29
Forced Air Space Heaters	2	0.12	1020	1.03
Forced Air Space Heaters	1	0.04	1020	0.34
Roof Units	2	0.24	1020	2.06
TOTALS	27	3.40		29.20

Pollutant	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.03	0.11	0.11	0.01	1.46	0.08	1.23

*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	
	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	
Potential Emission in tons/yr	3.066E-05	1.752E-05	1.095E-03	2.628E-02	4.964E-05	2.747E-02

Emission Factor in lb/MMcf	HAPs - Metals					Total - Metals
	Lead	Cadmium	Chromium	Manganese	Nickel	
	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	
Potential Emission in tons/yr	7.300E-06	1.606E-05	2.044E-05	5.548E-06	3.066E-05	8.001E-05
						Total HAPs
						2.755E-02
						Worst HAP
						2.628E-02

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
	120,000	2.3	2.2
Potential Emission in tons/yr	1,752.00	0.03	0.03
Summed Potential Emissions in tons/yr	1,752.07		
CO2e Total in tons/yr	1,762.41		

Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.

Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.

Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

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

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (25) + N2O Potential Emission ton/yr x N2O GWP (298).

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

**Company Name: Henry Pratt
Address: 403 Conkey Street, Hammond, IN 46324
Registration Number: 089-23364-00513
Administrative Amendment Number: 089-34634-00513
Permit Reviewer: Deborah Cole**

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)
Passenger Vehicle (entering plant) (one-way trip)	15.0	2.0	30.0	2.0	60.0	200	0.038	1.1	414.8
Passenger Vehicle (leaving plant) (one-way trip)	15.0	2.0	30.0	2.0	60.0	200	0.038	1.1	414.8
Sport Utility Vehicle (entering plant) (one-way trip)	5.0	2.0	10.0	3.0	30.0	200	0.038	0.4	138.3
Sport Utility Vehicle (leaving plant) (one-way trip)	5.0	2.0	10.0	3.0	30.0	200	0.038	0.4	138.3
Pickup Truck (entering plant) (one-way trip)	5.0	2.0	10.0	2.5	25.0	200	0.038	0.4	138.3
Pickup Truck (leaving plant) (one-way trip)	5.0	2.0	10.0	2.5	25.0	200	0.038	0.4	138.3
Freight Truck (entering plant) (one-way trip)	4.0	2.0	8.0	15.0	120.0	300	0.057	0.5	165.9
Freight Truck (leaving plant) (one-way trip)	4.0	2.0	8.0	15.0	120.0	300	0.057	0.5	165.9
TOTALS			80.0		470.0			4.7	1714.4

Average Vehicle Weight Per Trip = tons/trip
Average Miles Per Trip = 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 =	5.9	5.9	5.9	tons = average vehicle weight (provided by source)
sL =	0.6	0.6	0.6	g/m ² = Ubiquitous Baseline silt loading value for paved roads - Table 13.2.1-2)

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

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

	PM	PM10	PM2.5	
Unmitigated Emission Factor, $E_f =$	0.042	0.008	0.0021	lb/mile
Mitigated Emission Factor, $E_{ext} =$	0.038	0.008	0.0019	lb/mile
Dust Control Efficiency =	0%	0%	0%	

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)	Controlled PTE of PM (tons/yr)	Controlled PTE of PM10 (tons/yr)	Controlled PTE of PM2.5 (tons/yr)
Passenger Vehicle (entering plant) (one-way trip)	0.009	0.002	0.000	0.008	0.002	0.000	0.01	0.00	0.00
Passenger Vehicle (leaving plant) (one-way trip)	0.009	0.002	0.000	0.008	0.002	0.000	0.01	0.00	0.00
Sport Utility Vehicle (entering plant) (one-way trip)	0.003	0.001	0.000	0.003	0.001	0.000	0.00	0.00	0.00
Sport Utility Vehicle (leaving plant) (one-way trip)	0.003	0.001	0.000	0.003	0.001	0.000	0.00	0.00	0.00
Pickup Truck (entering plant) (one-way trip)	0.003	0.001	0.000	0.003	0.001	0.000	0.00	0.00	0.00
Pickup Truck (leaving plant) (one-way trip)	0.003	0.001	0.000	0.003	0.001	0.000	0.00	0.00	0.00
Freight Truck (entering plant) (one-way trip)	0.003	0.001	0.000	0.003	0.001	0.000	0.00	0.00	0.00
Freight Truck (leaving plant) (one-way trip)	0.003	0.001	0.000	0.003	0.001	0.000	0.00	0.00	0.00
Totals	0.04	0.01	0.00	0.03	0.01	0.00	0.03	0.01	0.00

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 day (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 day (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)
Controlled PTE (tons/yr) = [Mitigated PTE (tons/yr)] * [1 - Dust Control Efficiency]

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

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Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

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

TO: Allan Olson
Plant Manager
Henry Pratt Company
403 Conkey Street
Hammond, Indiana 46324

DATE: July 18, 2014

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

SUBJECT: Final Decision
Registration
089-34634-00513

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 6/13/2013

Mail Code 61-53

IDEM Staff	AWELLS 7/18/2014 Henry Pratt Company 089-34634-00513 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		Allan Olson Henry Pratt Company 403 Conkey St Hammond IN 46324 (Source CAATS) confirmed delivery										
2		East Chicago City Council 4525 Indianapolis Blvd East Chicago IN 46312 (Local Official)										
3		Lake County Health Department-Gary 1145 W. 5th Ave Gary IN 46402-1795 (Health Department)										
4		WJOB / WZVN Radio 6405 Olcott Ave Hammond IN 46320 (Affected Party)										
5		Hammond City Council and Mayors Office 5925 Calumet Avenue Hammond IN 46320 (Local Official)										
6		Shawn Sobocinski 3229 E. Atlanta Court Portage IN 46368 (Affected Party)										
7		Mark Coleman 107 Diana Road Portage IN 46368 (Affected Party)										
8		Mr. Chris Hernandez Pipefitters Association, Local Union 597 8762 Louisiana St., Suite G Merrillville IN 46410 (Affected Party)										
9		Craig Hogarth 7901 West Morris Street Indianapolis IN 46231 (Affected Party)										
10		Lake County Commissioners 2293 N. Main St, Building A 3rd Floor Crown Point IN 46307 (Local Official)										
11		Anthony Copeland 2006 E. 140th Street East Chicago IN 46312 (Affected Party)										
12		Barbara G. Perez 506 Lilac Street East Chicago IN 46312 (Affected Party)										
13		Mr. Robert Garcia 3733 Parrish Avenue East Chicago IN 46312 (Affected Party)										
14		Ms. Karen Kroczek 8212 Madison Ave Munster IN 46321-1627 (Affected Party)										
15		Joseph Hero 11723 S Oakridge Drive St. John IN 46373 (Affected Party)										

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See Domestic Mail Manual R900, S913, and S921 for limitations of coverage on inured and COD mail. See International Mail Manual for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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1		Gary City Council 401 Broadway # 209 Gary IN 46402 (Local Official)										
2		Ron Novak Hammond Dept. of Environmental Management 5925 Calumnet Ave. Hammond IN 46320 (Local Official)										
3		Mr. Larry Davis 268 South, 600 West Hebron IN 46341 (Affected Party)										
4		Ryan Dave 939 Cornwallis Munster IN 46321 (Affected Party)										
5		Matt Mikus 1710 Vale Park Rd Apt 302 Valparaiso IN 46383 (Affected Party)										
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Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See Domestic Mail Manual R900, S913, and S921 for limitations of coverage on inured and COD mail. See International Mail Manual for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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