INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Mitchell E. Daniels, Jr.
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Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: June 8, 2005

RE: Perry Chemical and Manufacturing Company / 157-21261-00080

FROM: Paul Dubenetzky
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, Room 1049, 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.dot 1/10/05

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Mr. Paul Chisholm
Perry Chemical and Manufacturing Company
P.O. Box 6419
Lafayette, Indiana 47903

June 8, 2005

Re: 157-21261-00080
Notice-only change to
MSOP 157-18141-00080

Dear Mr. Chisholm:

Perry Chemical and Manufacturing Company was issued a permit on February 2, 2004 for a flexible polyurethane foam casting plant. A letter notifying the Office of Air Quality of the conversion of Unit #17 into a gluing and masking operation was received on May 12, 2005. Pursuant to the provisions of 326 IAC 2-6.1-6 the permit is hereby revised as follows:

The change qualifies as a notice-only change pursuant to 326 IAC 2-6.1-6(d)(2) because the potential to emit of the new operation is below the levels specified in 326 IAC 2-6.1-6(g)(4) and the new operation is not subject to any applicable requirements so that the change only involves a change in descriptive information concerning emission units. The following changes have been made to the permit (~~strikeout~~ to show deletions and **bold** to show additions):

1. Section A.2 (k) of the permit is revised as follows:

A.2 Emissions Units and Pollution Control Equipment Summary

This stationary source is approved to construct and operate the following emissions units and pollution control devices:

….

(k) ~~A product line for manufacturing and coating urethane foam flowerpot containers, identified as Unit #17, exhausting through stack #21, consisting of the following units:~~
~~(1) One (1) high pressure elastometer spraying machine; and~~
~~(2) One (1) spray booth, for the application of urethane elastometer coating to the foam containers.~~
A product line for gluing and masking operations, identified as Unit #17, exhausting through stack #21, consisting of the following units:
(1) One (1) low pressure canister manual sprayer; and
(2) One (1) spray booth.

2. Section D.1 of the permit is revised as follows:

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(a) Five (5) two component, polyurethane foam machines, identified as Unit ID Nos. 1, 2, 3, 4, and 5, each constructed in 1984 (Unit #1), 1989 (Unit #5), 1991 (Units #2 and #3) and February 23, 1989 (Unit #4), each with a maximum production rate of 3,873 pads per day, each exhausting through one (1) stack ID #4 (Unit #5), ID #5 (Unit #1), ID #7 (Units #2 and #3), and ID #19 (Unit #4);

(b) Two (2) two component, polyurethane foam machines, used in product development, identified as Unit ID Nos. 6 and 7, each constructed in 1992 and 1989, respectively, each with a maximum production rate of 100 pads per day, each exhausting through one (1) stack ID #13;

(c) One (1) two component, polyurethane foam machine, identified as Unit ID #14, constructed in 1998, with a maximum production rate of 3,873 pads per day, exhausting through one (1) stack ID #20;

(d) One (1) two component, elastomeric foam machine, identified as Unit ID #16, constructed in February 11, 1998, with a maximum production rate of 1731 pads per day, exhausting through one (1) stack ID #9;

(e) One (1) automated hub assembly, identified as Unit ID #8, constructed in 1995, with a maximum usage rate of 1.33 pounds of adhesive per hour, exhausting to general ventilation (GV);

(f) One (1) fabric roller coater, identified as Unit ID #9, used for the application of sealant to hook fabric products, constructed on November 7, 1985, with a maximum usage rate of 5 pounds of water-based adhesive per hour, exhausting through two (2) stacks ID # 10 and 11;

(g) One (1) automated compounding operation, identified as Unit ID #10, with a maximum usage rate of 524 pounds per hour, exhausting through one (1) stack ID #8;

(h) One (1) manual hub gluing station, identified as Unit ID #11, constructed in 1977, with a maximum usage rate of 1.33 pounds of adhesive per hour, exhausting through two (2) stacks ID #12 and 22;

(i) The following fugitive emission source with individual HAP emissions below 1 ton per year and a combination of HAP emissions below 2.5 tons per year:

(1) Evaporation of the solvent carrier for the liquid mold release used on flexible and rigid foam molds, identified as unit #33;

(j) One (1) natural gas-fired boiler for area heating, with a maximum heat input capacity of less than 1 million British thermal units (MMBtu) per hour, exhausting through stack #18;

(k) ~~A product line for manufacturing and coating urethane foam flowerpot containers, identified as Unit #17, exhausting through stack #21, consisting of the following units:~~

~~(1) One (1) high pressure elastometer spraying machine; and~~

~~(2) One (1) spray booth, for the application of urethane elastometer coating to the foam containers.~~

A product line for gluing and masking operations, identified as Unit #17, exhausting through stack #21, consisting of the following units:

(1) One (1) low pressure canister manual sprayer; and

(2) One (1) spray booth.

(l) Two (2) cold cleaner degreasing tanks, identified as Unit # 18 and Unit # 19, using Methylene Chloride as solvent.

(m) One (1) Foam Mixing Line to produce varieties of product, such as surgical face masks; and polyurethane foam furniture cushion, and automobile interior parts, etc. This line will consist of the following emission units:

(1) One (1) Large Part Conveyor Line, identified as Unit #20: Edge Sweets FM, with the maximum capacity of 277 carrier per shift;

(2) One (1) Large Part Conveyor Line, identified as Unit #21: KraussMaffei FM, with the maximum capacity of 277 carrier per shift; and

(3) One (1) Large Part Conveyor Line, identified as Unit #22: Spray Booth, with the maximum capacity of 540 carrier per shift, exhausting through stack ID #23; and

(4) One (1) natural gas-fired drying oven, with a maximum heat input capacity of 3.5 MMBtu per hour.

(n) Process line LPC-2 consisting of the following:

(1) Two (2) urethane foam machines, identified as Units #30 and #31, each with a

maximum production rate of 19.0 and 210.6 pounds of urethane parts per hour, respectively, each exhausting inside the building;

(2) One (1) spray booth, identified as Unit #32, using a maximum of 4.64 pounds of mold release per hour, using an air atomization spray application system, with side baffles for overspray control, exhausting through one (1) stack (Stack #28);

(3) One (1) natural gas-fired drying oven, identified as Unit #34, with a maximum heat input capacity of 0.3 MMBtu per hour, exhausting through one (1) stack (Stack #29);

(o) Process line LPC-3 consisting of the following:

(1) Two (2) urethane foam machines, identified as Units #35 and #36, with a total maximum production rate of 222.6 pounds of urethane parts per hour, each exhausting inside the building;

(2) One (1) spray booth, identified as Unit #37, using a maximum of 9.07 pounds of mold release per hour, using an air atomization spray application system, with side baffles for overspray control, exhausting through one (1) stack (Stack #30);

(3) One (1) natural gas-fired drying oven, identified as Unit #38, with a maximum heat input capacity of 3.5 MMBtu per hour, exhausting through one (1) stack (Stack #31);

(p) Process line LPC-4 consisting of the following:

(1) One (1) high pressure foam machine, identified as Unit #23, with a maximum production rate of 33.9 pounds of urethane parts per hour, exhausting inside the building;

(2) One (1) spray booth, identified as Unit #24, using a maximum of 3.15 pounds of mold release per hour, using an air atomization spray application system, with side baffles for overspray control, exhausting through one (1) stack (Stack #25).

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

3. Additionally, the first page header of the permit has been updated to reflect the new Governor of Indiana and the new Commissioner of IDEM.

All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of this letter and the following revised permit pages to the front of the original permit.

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 Trish Earls, at (973) 575-2555, ext. 3219 or dial (800) 451-6027, and ask for extension 3-6878.

Sincerely,

Original signed by
Nysa L. James, Section Chief
Permits Branch
Office of Air Quality

Attachments
TE/EVP
cc: File – Tippecanoe County
U.S. EPA, Region V
Tippecanoe County Health Department
Air Compliance Section Inspector Wanda Stanfield
Compliance Data Section
Administrative and Development
Technical Support and Modeling

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NEW SOURCE CONSTRUCTION PERMIT and MINOR SOURCE OPERATING PERMIT OFFICE OF AIR QUALITY

Perry Chemical & Manufacturing Company, Inc.
2335 South 30th Street
Lafayette, Indiana 47903-6419

(herein known as the Permittee) is hereby authorized to construct and operate subject to the conditions contained herein, the emission units 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.

Operation Permit No.: MSOP 157-18141-00080	
Issued by: Paul Dubenetzky, Chief Permits Branch Office of Air Quality	Issuance Date: February 2, 2004 Expiration Date: February 2, 2009

First Notice-Only Change No.: 157-19937-00080, issued on January 6, 2005
Second Notice-Only Change No.: 157-19939-00080, issued on January 5, 2005

Third Notice-Only Change No.: 157-21261-00080	Pages Modified: 4, 5, 6, 16 and 17
Issued by: Original signed by Nysa L. James, Section Chief Office of Air Quality	Issuance Date: June 8, 2005

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 flexible polyurethane foam casting plant.

Authorized Individual:	Paul Chisholm, President/CEO
Source Address:	2335 South 30th Street, Lafayette, Indiana 47903
Mailing Address:	P.O. Box 6419, Lafayette, Indiana 47903-6419
General Source Phone:	(765) 474-3404
SIC Code:	3086
County Location:	Tippecanoe
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Minor Source Operating Permit Minor Source, under PSD Rules; Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emissions Units and Pollution Control Equipment Summary

This stationary source is approved to construct and operate the following emissions units and pollution control devices:

(a) Five (5) two component, polyurethane foam machines, identified as Unit ID Nos. 1, 2, 3, 4, and 5, each constructed in 1984 (Unit #1), 1989 (Unit #5), 1991 (Units #2 and #3) and February 23, 1989 (Unit #4), each with a maximum production rate of 3,873 pads per day, each exhausting through one (1) stack ID #4 (Unit #5), ID #5 (Unit #1), ID #7 (Units #2 and #3), and ID #19 (Unit #4);

(b) Two (2) two component, polyurethane foam machines, used in product development, identified as Unit ID Nos. 6 and 7, each constructed in 1992 and 1989, respectively, each with a maximum production rate of 100 pads per day, each exhausting through one (1) stack ID #13;

(c) One (1) two component, polyurethane foam machine, identified as Unit ID #14, constructed in 1998, with a maximum production rate of 3,873 pads per day, exhausting through one (1) stack ID #20;

(d) One (1) two component, elastomeric foam machine, identified as Unit ID #16, constructed in February 11, 1998, with a maximum production rate of 1731 pads per day, exhausting through one (1) stack ID #9;

(e) One (1) automated hub assembly, identified as Unit ID #8, constructed in 1995, with a maximum usage rate of 1.33 pounds of adhesive per hour, exhausting to general ventilation (GV);

(f) One (1) fabric roller coater, identified as Unit ID #9, used for the application of sealant to hook fabric products, constructed on November 7, 1985, with a maximum usage rate of 5 pounds of water-based adhesive per hour, exhausting through two (2) stacks ID # 10 and 11;

(g) One (1) automated compounding operation, identified as Unit ID #10, with a maximum usage rate of 524 pounds per hour, exhausting through one (1) stack ID #8;

(h) One (1) manual hub gluing station, identified as Unit ID #11, constructed in 1977, with a maximum usage rate of 1.33 pounds of adhesive per hour, exhausting through two (2) stacks ID #12 and 22;

(i) The following fugitive emission source with individual HAP emissions below 1 ton per year and a combination of HAP emissions below 2.5 tons per year:
  (1) Evaporation of the solvent carrier for the liquid mold release used on flexible and rigid foam molds, identified as unit #33;

(j) One (1) natural gas-fired boiler for area heating, with a maximum heat input capacity of less than 1 million British thermal units (MMBtu) per hour, exhausting through stack #18;

(k) A product line for gluing and masking operations, identified as Unit #17, exhausting through stack #21, consisting of the following units:
  (1) One (1) low pressure canister manual sprayer; and
  (2) One (1) spray booth.

(l) Two (2) cold cleaner degreasing tanks, identified as Unit # 18 and Unit # 19, using Methylene Chloride as solvent.

(m) One (1) Foam Mixing Line to produce varieties of product, such as surgical face masks; and polyurethane foam furniture cushion, and automobile interior parts, etc. This line will consist of the following emission units:
  (1) One (1) Large Part Conveyor Line, identified as Unit #20: Edge Sweets FM, with the maximum capacity of 277 carrier per shift;
  (2) One (1) Large Part Conveyor Line, identified as Unit #21: KraussMaffei FM, with the maximum capacity of 277 carrier per shift;
  (3) One (1) Large Part Conveyor Line, identified as Unit #22: Spray Booth, with the maximum capacity of 540 carrier per shift, exhausting through stack ID #23; and
  (4) One (1) natural gas-fired drying oven, with a maximum heat input capacity of 3.5 MMBtu per hour.

(n) Process line LPC-2 consisting of the following:
  (1) Two (2) urethane foam machines, identified as Units #30 and #31, each with a maximum production rate of 19.0 and 210.6 pounds of urethane parts per hour, respectively, each exhausting inside the building;
  (2) One (1) spray booth, identified as Unit #32, using a maximum of 4.64 pounds of mold release per hour, using an air atomization spray application system, with side baffles for overspray control, exhausting through one (1) stack (Stack #28);
  (3) One (1) natural gas-fired drying oven, identified as Unit #34, with a maximum heat input capacity of 0.3 MMBtu per hour, exhausting through one (1) stack (Stack #29);

(o) Process line LPC-3 consisting of the following:
  (1) Two (2) urethane foam machines, identified as Units #35 and #36, with a total maximum production rate of 222.6 pounds of urethane parts per hour, each exhausting inside the building;
  (2) One (1) spray booth, identified as Unit #37, using a maximum of 9.07 pounds of mold release per hour, using an air atomization spray application system, with side baffles for overspray control, exhausting through one (1) stack (Stack #30);
  (3) One (1) natural gas-fired drying oven, identified as Unit #38, with a maximum heat input capacity of 3.5 MMBtu per hour, exhausting through one (1) stack (Stack #31);

(p) Process line LPC-4 consisting of the following:
  (1) One (1) high pressure foam machine, identified as Unit #23, with a maximum production rate of 33.9 pounds of urethane parts per hour, exhausting inside the building;

(2) One (1) spray booth, identified as Unit #24, using a maximum of 3.15 pounds of mold release per hour, using an air atomization spray application system, with side baffles for overspray control, exhausting through one (1) stack (Stack #25).

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(a) Five (5) two component, polyurethane foam machines, identified as Unit ID Nos. 1, 2, 3, 4, and 5, each constructed in 1984 (Unit #1), 1989 (Unit #5), 1991 (Units #2 and #3) and February 23, 1989 (Unit #4), each with a maximum production rate of 3,873 pads per day, each exhausting through one (1) stack ID #4 (Unit #5), ID #5 (Unit #1), ID #7 (Units #2 and #3), and ID #19 (Unit #4);

(b) Two (2) two component, polyurethane foam machines, used in product development, identified as Unit ID Nos. 6 and 7, each constructed in 1992 and 1989, respectively, each with a maximum production rate of 100 pads per day, each exhausting through one (1) stack ID #13;

(c) One (1) two component, polyurethane foam machine, identified as Unit ID #14, constructed in 1998, with a maximum production rate of 3,873 pads per day, exhausting through one (1) stack ID #20;

(d) One (1) two component, elastomeric foam machine, identified as Unit ID #16, constructed in February 11, 1998, with a maximum production rate of 1731 pads per day, exhausting through one (1) stack ID #9;

(e) One (1) automated hub assembly, identified as Unit ID #8, constructed in 1995, with a maximum usage rate of 1.33 pounds of adhesive per hour, exhausting to general ventilation (GV);

(f) One (1) fabric roller coater, identified as Unit ID #9, used for the application of sealant to hook fabric products, constructed on November 7, 1985, with a maximum usage rate of 5 pounds of water-based adhesive per hour, exhausting through two (2) stacks ID # 10 and 11;

(g) One (1) automated compounding operation, identified as Unit ID #10, with a maximum usage rate of 524 pounds per hour, exhausting through one (1) stack ID #8;

(h) One (1) manual hub gluing station, identified as Unit ID #11, constructed in 1977, with a maximum usage rate of 1.33 pounds of adhesive per hour, exhausting through two (2) stacks ID #12 and 22;

(i) The following fugitive emission source with individual HAP emissions below 1 ton per year and a combination of HAP emissions below 2.5 tons per year:
  (1) Evaporation of the solvent carrier for the liquid mold release used on flexible and rigid foam molds, identified as unit #33;

(j) One (1) natural gas-fired boiler for area heating, with a maximum heat input capacity of less than 1 million British thermal units (MMBtu) per hour, exhausting through stack #18;

(k) A product line for gluing and masking operations, identified as Unit #17, exhausting through stack #21, consisting of the following units:
  (1) One (1) low pressure canister manual sprayer; and
  (2) One (1) spray booth.

(l) Two (2) cold cleaner degreasing tanks, identified as Unit # 18 and Unit # 19, using Methylene Chloride as solvent.

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  (1) One (1) Large Part Conveyor Line, identified as Unit #20: Edge Sweets FM, with the maximum capacity of 277 carrier per shift;
  (2) One (1) Large Part Conveyor Line, identified as Unit #21: KraussMaffei FM, with the maximum capacity of 277 carrier per shift; and
  (3) One (1) Large Part Conveyor Line, identified as Unit #22: Spray Booth, with the maximum capacity of 540 carrier per shift, exhausting through stack ID #23; and
  (4) One (1) natural gas-fired drying oven, with a maximum heat input capacity of 3.5 MMBtu per hour.

(n) Process line LPC-2 consisting of the following:
  (1) Two (2) urethane foam machines, identified as Units #30 and #31, each with a maximum production rate of 19.0 and 210.6 pounds of urethane parts per hour, respectively, each exhausting inside the building;
  (2) One (1) spray booth, identified as Unit #32, using a maximum of 4.64 pounds of mold release per hour, using an air atomization spray application system, with side baffles for overspray control, exhausting through one (1) stack (Stack #28);
  (3) One (1) natural gas-fired drying oven, identified as Unit #34, with a maximum heat input capacity of 0.3 MMBtu per hour, exhausting through one (1) stack (Stack #29);

(o) Process line LPC-3 consisting of the following:
  (1) Two (2) urethane foam machines, identified as Units #35 and #36, with a total maximum production rate of 222.6 pounds of urethane parts per hour, each exhausting inside the building;
  (2) One (1) spray booth, identified as Unit #37, using a maximum of 9.07 pounds of mold release per hour, using an air atomization spray application system, with side baffles for overspray control, exhausting through one (1) stack (Stack #30);
  (3) One (1) natural gas-fired drying oven, identified as Unit #38, with a maximum heat input capacity of 3.5 MMBtu per hour, exhausting through one (1) stack (Stack #31);

(p) Process line LPC-4 consisting of the following:
  (1) One (1) high pressure foam machine, identified as Unit #23, with a maximum production rate of 33.9 pounds of urethane parts per hour, exhausting inside the building;
  (2) One (1) spray booth, identified as Unit #24, using a maximum of 3.15 pounds of mold release per hour, using an air atomization spray application system, with side baffles for overspray control, exhausting through one (1) stack (Stack #25).

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

Emission Limitations and Standards

D.1.1 Particulate Emission Limitations for Sources of Indirect Heating [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating) the particulate matter emissions from the one (1) boiler, constructed after September 21, 1983, are limited to 0.6 lb/mmBtu.

D.1.2 Batch Cold Cleaning Machine Standards NESHAP [326 IAC 14 and 40 CFR Part 63.462, Subpart T]

Pursuant to National Emission Standards for Hazardous Air Pollutants (NESHAP), 326 IAC 14 and 40 CFR Part 63.462, Subpart T (Batch Cold Cleaning Machine Standards):

(a) Each owner or operator of an immersion batch cold solvent cleaning machine shall comply with the following:

  (1) Employ a tightly fitting cover that shall be closed at all times except during parts entry and removal, and a water layer at a minimum thickness of 2.5 cm (1.0 inch) on the surface of the solvent within the cleaning machine, or

  (2) Employ a tightly fitting cover that shall be closed at all times except during parts entry and removal and a freeboard ratio of 0.75 or greater.

Appendix A: Emissions Calculations
Potential to Emit of VOC and Particulate from new Unit #17

Company Name: Perry Chemical & Manufacturing Company, Inc.
Address City IN Zip: 2335 South 30th Street, Lafayette, Indiana 47903-6419
Permit No.: 157-21261
Plt ID: 157-00080
Reviewer: Trish Earls/EVP

Material	Density (Lb/Gal)	Weight % Volatile (H20 & Organics)	Weight % Water/Non-VOC	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gal/unit)	Maximum (unit/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential (ton/yr)	lb VOC/gal solids	Transfer Efficiency
M6130 Silaprene Adhesive	7.17	71.40%	24.8%	46.6%	21.4%	28.60%	0.00043	260.000	4.25	3.34	0.37	8.97	1.64	0.75	11.68	25%
3M Overspray Masking Liquid Dry	8.51	90.00%	70.0%	20.0%	71.5%	10.00%	0.00026	250.000	5.97	1.70	0.11	2.65	0.48	0.18	17.02	25%
State Potential Emissions			**Add worst case coating to all solvents**								**0.37**	**8.97**	**1.64**	**0.75**		

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)
Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (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 % organics) / (Volume % solids)
Total = Worst case coating
Only one process can occur at a time. The M6130 Silaprene Adhesive is the worst case coating.
These emissions represent the PTE of the new unit, identified as Unit #17. The previous unit identified as Unit #17 has been removed.

Appendix A: Emission Calculations
Potential to Emit of HAPs from new Unit #17

Company Name: **Perry Chemical & Manufacturing Company, Inc.**
Address City IN Zip: **2335 South 30th Street, Lafayette, Indiana 47903-6419**
Permit No.: **157-21261**
Plt ID: **157-00080**
Reviewer: **Trish Earls/EVP**

Material	Density (Lb/Gal)	Gallons of Material (gal/unit)	Maximum (unit/hour)	Weight % Toluene	Weight % Methanol	Toluene Emissions (ton/yr)	Methanol Emissions (ton/yr)
M6130 Silaprene Adhesive	7.17	0.00043	260.000	21.90%	0.00%	0.77	0.00
3M Overspray Masking Liquid Dry	8.51	0.00026	250.000	0.00%	1.00%	0.00	0.02

Total State Potential Emissions **0.77** **0.02**

METHODOLOGY

HAPS emission rate (tons/yr) = Density (lb/gal) * Gal of Material (gal/unit) * Maximum (unit/hr) * \
Only one process can occur at a time. The M6130 Silaprene Adhesive is the worst case coating.