



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 15, 2010

RE: Pactiv Corporation / 091 - 29057 - 00011

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



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

December 15, 2010

Ms. Chatoma Scott
Pactiv Corporation- Wanatah
P.O. Box 119
Wanatah, IN 46390-0119

Re: Exempt Operation Status
No. 091-29057-00011

Dear Ms. Scott:

The application and additional information from Pactiv Corporation- Wanatah, received on March 10, 2010, and November 30, 2010 have been reviewed. Based on the data submitted and the provisions in 326 IAC 2-1.1-3, it has been determined that the following existing stationary source that cut and packages large aluminum rolls into small rolls/sheets, located at 9702 Highway 30, Wanatah, Indiana 46390 is classified as exempt from air pollution permit requirements:

- (a) One (1) Aluminum Sheet Slitting Station, identified as Rewinder North, with a maximum throughput of 7500 pounds per hour of aluminum sheets, and exhausting to Stack S-Rewin.
- (b) One (1) Plastic Wrapping Station, identified as Rewinder North Shrink-Wrap Station, with a maximum throughput of 300 cases per hour of Aluminum cases, and exhausting to Stack S-Rewinsw.
- (c) One (1) Aluminum Sheet Slitting Station, identified as Rewinder South, with a maximum throughput of 7500 pounds per hour, and exhausting to Stack S-Rewins.
- (d) One (1) Plastic Wrapping Station, identified as Rewinder South Shrink-Wrap Station, with a maximum throughput of 300 cases per hour of Aluminum cases, and exhausting inside the building.
- (e) Two (2) Aluminum Slitting and Wrapping, identified as Interfolders, with a maximum throughput of 66 cases of aluminum sheets per hour each, and exhausting inside the building.
- (f) One (1) boiler and forty-six (46) heaters, with a combined heat rate of 9.7 MMBtu/hr.
- (g) One (1) parts washer with a maximum capacity of 25 gallons per year.
- (h) One (1) welding station.

The following conditions shall be applicable:

- (1) Pursuant to 326 IAC 8-3-2, the owner or operator of a new cold cleaning facility 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;

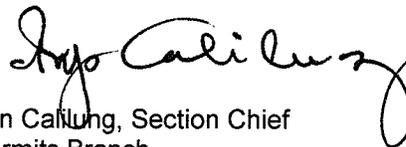
- (5) provide a permanent, conspicuous label summarizing the operating requirements;
 - (6) store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.
- (2) 326 IAC 5-1 (Opacity Limitations)
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:
- (1) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
 - (2) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.
- (3) 326 IAC 6-4 (Fugitive Dust Emissions Limitations)
Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4.

This Exemption No. 091-29057-00011 supersedes prior approvals issued to this source.

A copy of the Exemption 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

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. If you have any questions on this matter, please contact Ms. Renee Traivaranon, OAQ, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana, 46204-2251, at 317-234-5615 or at 1-800-451-6027 (ext 4-5615).

Sincerely,



Iryn Callung, Section Chief
Permits Branch
Office of Air Quality

IC/rt

Attachment

cc: File - LaPorte County
LaPorte County Health Department
Pactiv Corporation-Mike Rehor 1900W. Field Court, Lake Forest, IL 60045
Compliance and Enforcement Branch
Billing, Licensing and Training Section

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for an Exemption

Source Description and Location

Source Name:	Pactiv Corporation - Wanatah
Source Location:	9702 Highway 30, Wanatah, Indiana 46390 - 0119
County:	LaPorte
SIC Code:	3497
Registration (or Exemption) No.:	091-29057-00011
Permit Reviewer:	Renee Traivaranon

On March 10, 2010, and November 30, 2010 the Office of Air Quality (OAQ) received an application and additional information from Pactiv Corporation - Wanatah related to the continuing operation of an existing plant that cuts and packages large aluminum rolls into small rolls/sheets.

Existing Approvals

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

- (a) Notice Only Change No. 091-11061-00011, issued on July 21, 1999.
- (b) Operation Permit No. 46-09-86-0156, issued on November 5, 1982.

County Attainment Status

The source is located in LaPorte County.

Pollutant	Designation
SO ₂	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O ₃	Attainment effective July 19, 2007, for the 8-hour ozone standard. ¹
PM ₁₀	Unclassifiable effective November 15, 1990.
NO ₂	Cannot be classified or better than national standards.
Pb	Not designated.
¹ Unclassifiable or attainment effective November 15, 1990, for the 1-hour ozone standard which was revoked effective June 15, 2005. Unclassifiable or attainment effective April 5, 2005, for PM _{2.5} .	

- (a) **Ozone Standards**
 Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. LaPorte County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

- (b) **PM2.5**
LaPorte County has been classified as Unclassifiable or attainment for PM2.5. On May 8, 2008 U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM2.5 emissions, and the effective date of these rules was July 15, 2008. Indiana has three years from the publication of these rules to revise its PSD rules, 326 IAC 2-2, to include those requirements. The May 8, 2008 rule revisions require IDEM to regulate PM10 emissions as a surrogate for PM2.5 emissions until 326 IAC 2-2 is revised.
- (c) **Other Criteria Pollutants**
LaPorte County has been classified as attainment or unclassifiable in Indiana for all other pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

The fugitive emissions of criteria pollutants and hazardous air pollutants are counted toward the determination of 326 IAC 2-1.1-3 (Exemptions) applicability.

Background and Description of Emission Units and Pollution Control Equipment

The source consists of the following existing emission units:

- (a) One (1) Aluminum Sheet Cutting Station, identified as Rewinder North, with a maximum throughput of 7500 pounds per hour of aluminum, and exhausting to Stack S-Rewin.
- (b) One (1) Aluminum Cases Wrapping Station, identified as Rewinder North Shrink-Wrap Station, with a maximum throughput of 300 cases per hour and exhausting to Stack S-Rewinsw.
- (c) One (1) Aluminum Sheet Cutting Station, identified as Rewinder South, with a maximum throughput of 7500 pounds per hour, and exhausting to Stack S-Rewins.
- (d) One (1) Aluminum Cases Wrapping Station, identified as Rewinder South Shrink-Wrap Station, with a maximum throughput of 300 cases per hour and exhausting inside the building.
- (e) Two (2) Aluminum Cutting and Wrapping, identified as Interfolders, with a maximum throughput of 66 cases of aluminum sheets per hour each, and exhausting inside the building.
- (f) One (1) boiler and forty-six (46) heaters, with a combined heat rate of 9.7 MMBtu/hr.
- (g) One (1) parts washer with a maximum capacity of 25 gallons per year.
- (h) One (1) welding station.

Enforcement Issues

There are no pending enforcement actions related to this source.

Emission Calculations

See Appendix A of this TSD for detailed emission calculations page 1-5.

Permit Level Determination – Exemption

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

Process/ Emission Unit	Potential To Emit of the Entire Source (tons/year)								
	PM	PM10 *	PM2.5	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Aluminum Cutting**	neg	neg	neg	--	--	--	--	--	neg
Plastic Wrapping**									
Welding									
Gas Fired Equipment	0.1	0.3	0.3	0.03	4.2	0.2	3.6	0.08	neg
Misc VOC including Aerosol cans, parts washer	--	--	--	--	--	1.74	--	--	--
Fugitive Emissions	--	--	--	--	--	--	--	--	--
Total PTE of Entire Source	<5	<5	<5	--	4.2	2.0	3.6	0.08	neg
Exemptions Levels	5	5	5	10	10	10	25	25	10
neg. = negligible * Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant". ** There is no emission factor from the aluminum cutting and wrapping operations; the source has submitted the result of testing from similar operations to indicate that the particulate emissions from the operation are negligible. The test result has not been verified by IDEM.									

Criteria Pollutants

- (a) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1(16)) of all regulated criteria pollutants are less than the levels listed in 326 IAC 2-1.1-3(e)(1). Therefore, the source is subject to the provisions of 326 IAC 2-1.1-3 (Exemptions).

Hazardous Air Pollutants

- (b) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1(16)) of any single HAP is less than ten (10) tons per year and the PTE of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-7.

Federal Rule Applicability Determination

New Source Performance Standards (NSPS)

- (a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in the permit.

Compliance Assurance Monitoring (CAM)

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

State Rule Applicability Determination

The following state rules are applicable to the source:

- (a) 326 IAC 2-1.1-3 (Exemptions)
Exemption applicability is discussed under the Permit Level Determination – Exemption section above.
- (b) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
The potential to emit of any single HAP is less than ten (10) tons per year and the potential to emit of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-4.1.
- (c) 326 IAC 2-6 (Emission Reporting)
Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is located in LaPorte County, it has actual emissions of NO_x and VOC of less than twenty-five (25) tons per year, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.
- (d) 326 IAC 5-1 (Opacity Limitations)
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:
- (1) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
 - (2) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

- (e) 326 IAC 6-4 (Fugitive Dust Emissions Limitations)
Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4.
- (f) 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
Each of the emission units at this source is not subject to the requirements of 326 IAC 8-1-6, since the unlimited VOC potential emissions from each emission unit is less than twenty-five (25) tons per year.

Parts washer Operation

- (g) 326 IAC 8-3-2 (Cold cleaner operation)
Pursuant to 326 IAC 8-3-2, the owner or operator of a new cold cleaning facility constructed after 1990, 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 operating requirements;
 - (6) store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

Aluminum Cutting and Packaging Operation

- (h) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
The potential to emit particulate matters (PM) from aluminum cutting and packaging operation are less than 0.551 pounds per hour each (according to the source), therefore, these requirements are not applicable.

Welding Operation

- (i) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-2, the particulate matter (PM) emission requirements do not apply to the welding emission since it uses less than 625 pounds of rod or wire per day.

Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on March 10, 2010, March 31, 2010, and November 30, 2010.

The operation of this source shall be subject to the conditions of the attached Exemption No. 091-29057-00011. The staff recommends to the Commissioner that this Exemption be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Ms. Renee Traivaranon at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 326-5615 or toll free at 1-800-451-6027 extension 4-5615.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

**Appendix A: Emission Calculations
Aerosol Cans**

**Company Name: Pactiv Corporation - Wanatah
Address: 9702 Highway 30, Wanatah, Indiana 46390 - 0119
Permit: 091-29057-00011
Reviewer: Renee Traivaranon
Date: December 1, 2010**

Product	Cans		Size (oz./can)	VOC (%)	Actual VOC Emissions	Potential VOC Emissions
	Actual	Potential			(tons)	(tons)
Silicone Aerosol*	1,008	2000	10	62.8%	0.20	0.39
Glass Cleaner	24	50	19	100%	0.01	0.03
3M Trouble Shoot**	1	3	23	27.5%	0.00	0.00
Totals					0.21	0.42

Methodology

Emission (tons/yr) = Throughput (no. cans used) x (content of can, oz.) x (VOC % in can) /2,000 lb/ton

Emission Factors are based on VOC content indicated in MSDS

Potential Throughput : Scaled up from actual usage approximately 50%

* the spray is 7.42 pounds per gallon and VOC is 4.7 pounds per gallon

** VOC is 275 g per liter, assume specific gravity = 1

Note: Above information provided by source.

**Appendix A: Emission Calculations
Misc. VOC Emissions**

Company Name: Pactiv Corporation - Wanatah

Address: 9702 Highway 30, Wanatah, Indiana 46390 - 0119

Permit: 091-29057-00011

Reviewer: Renee Traivaranon

Date: December 1, 2010

TOTAL VOCs	
0.63	(tons)
1.32	PTE (tons)
TOTAL HAPs	
0.000	(tons)
0.000	PTE (tons)

GLUE				
Wilber				
		VOC Emission Factor lb/lb		
Actual Use (lb)	35,000	0.004	140	TOTAL VOCs (lbs)
Potential Use (lb)	70,000		280	TOTAL VOCs - PTE (lbs)
			0.14	TOTAL VOCs - PTE (tons)

PARTS WASHER				
Safety Kleen Premium Gold				
		VOC Emission Factor lb/gal		
Actual Use (gal)	25	6.62	165	TOTAL VOCs (lbs)
Potential Use (gal)	25		165	TOTAL VOCs - PTE (lbs)
VOC content = 100%				
sp gr. = 0.785				
No HAPs present in parts washing fluid				
			0.08	TOTAL VOCs - PTE (tons)

Isopropyl Alcohol				
		VOC Emission Factor lb/gal		
Actual Use (gal)	15	6.62	99	TOTAL VOCs (lbs)
Potential Use (gal)	50		331	TOTAL VOCs - PTE (lbs)
VOC content = 100%				
sp gr. = 0.785				
			0.17	TOTAL VOCs - PTE (tons)

Mineral Oil				
		VOC Emission Factor lb/gal		
Actual Use (gal)	115	7.42	853	TOTAL VOCs (lbs)
Potential Use (gal)	250		1,855	TOTAL VOCs - PTE (lbs)
VOC content = 100%				
sp gr. = 0.88				
			0.93	TOTAL VOCs - PTE (tons)

Kiwi Coder - Ink				
Dot Matrix black				
		VOC Emission Factor lb/gal		
Actual Use (gal)	6	0.045	0	TOTAL VOCs (lbs)
Potential Use (gal)	12		1	TOTAL VOCs - PTE (lbs)
VOC content = 100%				
sp gr. = 1				
HAPs	ethylene glycol			
			0.00	TOTAL VOCs - PTE (tons)
			0.000	TOTAL HAPs - (tons)
			0.000	TOTAL HAPs - PTE (tons)

Kiwi Coder - Cleaner				
Dot Matrix solvent				
		VOC Emission Factor lb/gal		
Actual Use (gal)	1	0.045	0	TOTAL VOCs (lbs)
Potential Use (gal)	2		0	TOTAL VOCs - PTE (lbs)
VOC content = 100%				
sp gr. = 1				
HAPs	ethylene glycol			
			0.00	TOTAL VOCs - PTE (tons)
			0.000	TOTAL HAPs - (tons)
			0.000	TOTAL HAPs - PTE (tons)

Methodology
Emission (tons/yr) = Throughput (appropriate amount used) x (VOC % / 2,000 lb/ton)

With the exception of the glue, all of the above emissions were calculated using the VOC and/or HAP content information provided for each type of chemical/material, obtained from the MSDS, multiplied by the usage. The glue emissions were calculated using an estimated emission factor provided by a glue vendor used by Pactiv - 0.4 lbs of VOC were estimated to be emitted for every 1,000 lbs of glue. Consequently, VOC emissions from glue usage were calculated by multiplied glue usage by this emissions factor.

Note: Above Information was provided by the source.

**Appendix A: Emissions Calculations
Natural Gas Combustion Only**

Company Name: Pactiv Corporation - Wanatah
Address City IN Zip: 9702 Highway 30, Wanatah, Indiana 46390 - 0119
Permit Number: 091-29057-00011
Reviewer: Renee Traivaranon
Date: December 1, 2010

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

9.7

84.5

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.9	7.6	0.6	100	5.5	84
				**see below		
Potential Emission in tons/yr	0.1	0.3	0.03	4.2	0.2	3.6

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 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

See next page for HAPs emissions calculations.

**Appendix A: Emissions Calculations
Natural Gas Combustion Only
HAPs Emissions**

Company Name: Pactiv Corporation - Wanatah
Address City IN Zip: 9702 Highway 30, Wanatah, Indiana 46390 - 0119
Permit Number: 091-29057-00011
Reviewer: Renee Traivaranon
Date: December 1, 2010

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	8.876E-05	5.072E-05	3.170E-03	7.608E-02	1.437E-04

HAPs - Metals					
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03
Potential Emission in tons/yr	2.113E-05	4.649E-05	5.917E-05	1.606E-05	8.876E-05

Methodology is the same as page 1.

The five highest organic and metal HAPs emission factors are provided above.
 Additional HAPs emission factors are available in AP-42, Chapter 1.4.

**Appendix A: Emission Calculations
Emission Summary**

Company Name: Pactiv Corporation - Wanatah
Address: 9702 Highway 30, Wanatah, Indiana 46390 - 0119
Permit: 091-29057-00011
Reviewer: Renee Traivaranon
Date: December 1, 2010

Potential Emissions	VOC	PM	PM₁₀	PM_{2.5}	NO_x	SO₂	CO
Gas Fired Equipment	0.2	0.1	0.3	0.3	4.2	0.0	3.6
Aerosol cans	0.4	--	--	--	--	--	--
Misc. VOC emissions	1.3	--	--	--	--	--	--
Total (tons)	1.9	0.1	0.3	0.3	4.2	0.0	3.6



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

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

TO: Chatoma Scott
Pactiv Corporation
PO Box 119
Wanatah, IN 46390-0119

DATE: December 15, 2010

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

SUBJECT: Final Decision
Exemption
091 - 29057 - 00011

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:
Mike Rehor Pactiv Corporation
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	LPOGOST 12/15/2010 Pactiv Corporation 091 - 29057 - 00011 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		Chatoma Scott Pactiv Corporation PO Box 119 Wanatah IN 46390-0119 (Source CAATS) Via confirmed delivery										
2		Laurence A. McHugh Barnes & Thornburg 100 North Michigan South Bend IN 46601-1632 (Affected Party)										
3		LaPorte County Commissioners 555 Michigan Avenue # 202 LaPorte IN 46350 (Local Official)										
4		Mr. Chris Hernandez Pipefitters Association, Local Union 597 8762 Louisiana St., Suite G Merrillville IN 46410 (Affected Party)										
5		Kingsbury Town Council P.O. Box 62 Kingsbury IN 46345 (Local Official)										
6		LaPorte County Health Department County Complex, 4th Floor, 809 State St. LaPorte IN 46350-3329 (Health Department)										
7		Mr. Dick Paulen Barnes & Thornburg 121 W Franklin Street Elkhart IN 46216 (Affected Party)										
8		Ms. Mindy Heidel 9223 Broadway Suite A Merrillville IN 46410 (Affected Party)										
9		Mark Zeltwanger 26545 CR 52 Nappanee IN 46550 (Affected Party)										
10		Mike Rehor Pactiv Corporation 1900W. Field Court Lake Forest IL 60045 (Source & addl contact)										
11												
12												
13												
14												
15												

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.
---	--	--	--