MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY AIR QUALITY DIVISION

April 26, 2004

NEW SOURCE REVIEW PERMIT TO INSTALL

No. 29-04

ISSUED TO

Vic Pack, Inc.

LOCATED AT

5030 Kraft SE Kentwood, Michigan 49512

IN THE COUNTY OF

Kent

STATE REGISTRATION NUMBER

N7326

The Air Quality Division has approved this Permit to Install, pursuant to the delegation of authority from the Michigan Department of Environmental Quality. This permit is hereby issued in accordance with and subject to Part 5505(1) of Article II, Chapter I, Part 55 (Air Pollution Control) of P.A. 451 of 1994. Pursuant to Air Pollution Control Rule 336.1201(1), this permit constitutes the permittee's authority to install the identified emission unit(s) in accordance with all administrative rules of the Department and the attached conditions. Operation of the emission unit(s) identified in this Permit to Install is allowed pursuant to Rule 336.1201(6).

DATE OF RECEIPT OF ALL INFORMATION REQUIRED BY RULE 203: 3/31/2004			
DATE PERMIT TO INSTALL APPROVED: 4/26/2004	SIGNATURE:		
DATE PERMIT VOIDED:	SIGNATURE:		
DATE PERMIT REVOKED:	SIGNATURE:		

PERMIT TO INSTALL

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Common Abbreviations / Acronyms

Common Acronyms Air Quality Division Best Available Control Technology Clean Air Act Continuous Emission Monitoring Code of Federal Regulations Continuous Opacity Monitoring Environmental Protection Agency Emission Unit Flexible Group Gallon of Applied Coating Solids General Condition Hazardous Air Pollutant	Btu °C CO dscf dscm °F gr Hg hr H ₂ S	British Thermal Unit Degrees Celsius Carbon Monoxide Dry standard cubic foot Dry standard cubic meter Degrees Fahrenheit Grains Mercury Hour Hydrogen Sulfide
Best Available Control Technology Clean Air Act Continuous Emission Monitoring Code of Federal Regulations Continuous Opacity Monitoring Environmental Protection Agency Emission Unit Flexible Group Gallon of Applied Coating Solids General Condition	°C CO dscf dscm °F gr Hg hr H ₂ S	Degrees Celsius Carbon Monoxide Dry standard cubic foot Dry standard cubic meter Degrees Fahrenheit Grains Mercury Hour
Clean Air Act Continuous Emission Monitoring Code of Federal Regulations Continuous Opacity Monitoring Environmental Protection Agency Emission Unit Flexible Group Gallon of Applied Coating Solids General Condition	CO dscf dscm °F gr Hg hr	Carbon Monoxide Dry standard cubic foot Dry standard cubic meter Degrees Fahrenheit Grains Mercury Hour
Code of Federal Regulations Continuous Opacity Monitoring Environmental Protection Agency Emission Unit Flexible Group Gallon of Applied Coating Solids General Condition	dscm °F gr Hg hr H ₂ S	Dry standard cubic meter Degrees Fahrenheit Grains Mercury Hour
Code of Federal Regulations Continuous Opacity Monitoring Environmental Protection Agency Emission Unit Flexible Group Gallon of Applied Coating Solids General Condition	°F gr Hg hr H ₂ S	Dry standard cubic meter Degrees Fahrenheit Grains Mercury Hour
Continuous Opacity Monitoring Environmental Protection Agency Emission Unit Flexible Group Gallon of Applied Coating Solids General Condition	gr Hg hr H ₂ S	Degrees Fahrenheit Grains Mercury Hour
Environmental Protection Agency Emission Unit Flexible Group Gallon of Applied Coating Solids General Condition	Hg hr H ₂ S	Grains Mercury Hour
Emission Unit Flexible Group Gallon of Applied Coating Solids General Condition	Hg hr H ₂ S	Hour
Gallon of Applied Coating Solids General Condition	H_2S	
General Condition		Hydrogen Sulfide
	hn	
Hazardous Air Pollutant	1112	Horsepower
	lb	Pound
High Volume Low Pressure *	m	Meter
Identification	mg	Milligram
Lowest Achievable Emission Rate	mm	Millimeter
Maximum Achievable Control Technology	MM	Million
Michigan Air Emissions Reporting System	MW	Megawatts
Malfunction Abatement Plan	NOx	Oxides of Nitrogen
Michigan Department of Environmental Quality	PM	Particulate Matter
Material Safety Data Sheet	PM-10	Particulate Matter less than 10 microns diameter
National Emission Standard for Hazardous Air Pollutants	pph	Pound per hour
New Source Performance Standards	ppm	Parts per million
New Source Review	ppmv	Parts per million by volume
Performance Specification	ppmw	Parts per million by weight
Prevention of Significant Deterioration	psia	Pounds per square inch absolute
Permanent Total Enclosure	psig	Pounds per square inch gauge
Permit to Install	scf	Standard cubic feet
Reasonable Available Control Technology	sec	Seconds
Renewable Operating Permit	SO_2	Sulfur Dioxide
Special Condition Number	THC	Total Hydrocarbons
Selective Catalytic Reduction	tpy	Tons per year
State Registration Number	μg	Microgram
Toxic Air Contaminant	VOC	Volatile Organic Compounds
Visible Emissions	yr	Year
	Hazardous Air Pollutant High Volume Low Pressure * Identification Lowest Achievable Emission Rate Maximum Achievable Control Technology Michigan Air Emissions Reporting System Malfunction Abatement Plan Michigan Department of Environmental Quality Material Safety Data Sheet National Emission Standard for Hazardous Air Pollutants New Source Performance Standards New Source Review Performance Specification Prevention of Significant Deterioration Permanent Total Enclosure Permit to Install Reasonable Available Control Technology Renewable Operating Permit Special Condition Number Selective Catalytic Reduction State Registration Number Toxic Air Contaminant	Hazardous Air Pollutant High Volume Low Pressure * Identification Lowest Achievable Emission Rate Maximum Achievable Control Technology Michigan Air Emissions Reporting System Malfunction Abatement Plan Michigan Department of Environmental Quality Michigan Department of Environmental Quality Material Safety Data Sheet National Emission Standard for Hazardous Air Pollutants New Source Performance Standards New Source Review Performance Specification Prevention of Significant Deterioration Permanent Total Enclosure Permit to Install Reasonable Available Control Technology Renewable Operating Permit Special Condition Number Selective Catalytic Reduction State Registration Number Toxic Air Contaminant VOC

^{*} For High Volume Low Pressure (HVLP) applicators, the pressure measured at the HVLP gun air cap shall not exceed ten (10) pounds per square inch gauge (psig).

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GENERAL CONDITIONS

1. The process or process equipment covered by this permit shall not be reconstructed, relocated, or modified, unless a Permit to Install authorizing such action is issued by the Department, except to the extent such action is exempt from the Permit to Install requirements by any applicable rule. [R336.1201(1)]

- 2. If the installation, construction, reconstruction, relocation, or modification of the equipment for which this permit has been approved has not commenced within 18 months, or has been interrupted for 18 months, this permit shall become void unless otherwise authorized by the Department. Furthermore, the permittee or the designated authorized agent shall notify the Department via the Supervisor, Permit Section, Air Quality Division, Michigan Department of Environmental Quality, P.O. Box 30260, Lansing, Michigan 48909, if it is decided not to pursue the installation, construction, reconstruction, relocation, or modification of the equipment allowed by this Permit to Install. [R336.1201(4)]
- 3. If this Permit to Install is issued for a process or process equipment located at a stationary source that is not subject to the Renewable Operating Permit program requirements pursuant to R336.1210, operation of the process or process equipment is allowed by this permit if the equipment performs in accordance with the terms and conditions of this Permit to Install. [R336.1201(6)(b)]
- 4. The Department may, after notice and opportunity for a hearing, revoke this Permit to Install if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of this permit or is violating the Department's rules or the Clean Air Act. [R336.1201(8), Section 5510 of Act 451, PA 1994]
- 5. The terms and conditions of this Permit to Install shall apply to any person or legal entity that now or hereafter owns or operates the process or process equipment at the location authorized by this Permit to Install. If the new owner or operator submits a written request to the Department pursuant to R336.1219 and the Department approves the request, this permit will be amended to reflect the change of ownership or operational control. The request must include all of the information required by subrules (1)(a), (b), and (c) of R336.1219. The written request shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environmental Quality. [R336.1219]
- 6. Operation of this equipment shall not result in the emission of an air contaminant which causes injurious effects to human health or safety, animal life, plant life of significant economic value, or property, or which causes unreasonable interference with the comfortable enjoyment of life and property. [R336.1901]
- 7. The permittee shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant which continue for more than one hour in excess of any applicable standard or limitation, or emissions of any air contaminant continuing for more than two hours in excess of an applicable standard or limitation, as required in Rule 912, to the Department. The notice shall be provided not later than two business days after start-up, shutdown, or discovery of the abnormal condition or malfunction. Written reports, if required, must be filed with the Department within 10 days after the start-up or shutdown occurred, within 10 days after the abnormal conditions or malfunction has been corrected, or within 30 days of discovery of the abnormal condition or malfunction, whichever is first. The written reports shall include all of the information required in Rule 912(5). [R336.1912]
- 8. Approval of this permit does not exempt the permittee from complying with any future applicable requirements which may be promulgated under Part 55 of 1994 PA 451, as amended or the Federal Clean Air Act.

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9. Approval of this permit does not obviate the necessity of obtaining such permits or approvals from other units of government as required by law.

- 10. Operation of this equipment may be subject to other requirements of Part 55 of 1994 PA 451, as amended and the rules promulgated thereunder.
- 11. Except as provided in subrules (2) and (3) or unless the special conditions of the Permit to Install include an alternate opacity limit established pursuant to subrule (4) of R336.1301, the permittee shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of density greater than the most stringent of the following. The grading of visible emissions shall be determined in accordance with R336.1303. [R336.1301]
 - a) A six-minute average of 20 percent opacity, except for one six-minute average per hour of not more than 27 percent opacity.
 - b) A visible emission limit specified by an applicable federal new source performance standard.
 - c) A visible emission limit specified as a condition of this permit to install.
- 12. Collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in R336.1370(2). [R336.1370]
- 13. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with R336.2001 and R336.2003, under any of the conditions listed in R336.2001. [R336.2001]

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SPECIAL CONDITIONS

Emission Unit Identification

Emission Unit ID	Emission Unit Description	Stack Identification		
EU-FOAMMOLDING	An expandable polystyrene foam molding process	SV-EXP1		
	consisting of one batch pre-expander, intermediate	SV-PRESS1		
	product storage silos, five molding presses, and final	SV-PRESS2		
	product storage.	SV-PRESS3		
		SV-PRESS4		
		SV-PRESS5		
EU-BOILER	One natural-gas fired boiler to provide low pressure	SV-BOILER		
	steam for the pre-expander and molding presses.			
Changes to the equipment described in this table are subject to the requirements of R336.1201, except as				
allowed by R3361278 to R3361290				

allowed by R336.1278 to R336.1290.

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The following conditions apply to: EU-FOAMMOLDING

Emission Limits

	Pollutant	Equipment	Limit	Time Period	Testing/ Monitoring Method	Applicable Requirements
1.1a	VOCs	EU-	78.6 tpy	12-month rolling time	SC 1.7	R336.1205(3),
		FOAMMOLDING		period as determined		R336.1702(a)
				at the end of each		
				calendar month.		
1.1b	VOCs	The pre-expander	22.2 tpy	12-month rolling time	SC 1.7	R336.1702(a)
		portion of EU-		period as determined		
		FOAMMOLDING		at the end of each		
				calendar month.		
1.1c	VOCs	The molding	13.0 tpy	12-month rolling time	SC 1.7	R336.1702(a)
		presses portion of		period as determined		
		EU-		at the end of each		
		FOAMMOLDING		calendar month.		

Material Limits

- 1.2 The VOC content of the expandable polystyrene foam resin used in EU-FOAMMOLDING shall not exceed an average of 5.0 percent by weight. The average shall be based upon a monthly mass-weighted averaging period. [R336.1702(a)]
- 1.3 The permittee shall not process more than 1850 tons per 12-month rolling time period as determined at the end of each calendar month of expandable polystyrene foam resin through EU-FOAMMOLDING. [R336.1205(3), R336.1702]

Process / Operational Limits

1.4 All waste resin and foam shall be captured and stored in closed containers and shall be disposed of in an acceptable manner in compliance with all applicable rules and regulations. [R336.1224, R336.1702(a)]

Recordkeeping /Reporting /Notification

- 1.5 All required calculations shall be completed in a format acceptable to the AQD District Supervisor and made available by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any recordkeeping, reporting or notification special condition. [R336.1205(3), R336.1225, R336.1702]
- 1.6 The permittee shall maintain a current listing from the manufacturer of the chemical composition of each expandable polystyrene foam resin used, including the weight percent of each component. The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. All records shall be kept on file for a period of at least five years and made available to the Department upon request. [R336.1225, R336.1702]
- 1.7 The permittee shall keep the following information on a monthly basis for EU-FOAMMOLDING:
 - a) Pounds of each lot of expandable polystyrene foam resin used.
 - b) VOC content (by weight) of each lot of expandable polystyrene foam resin used.

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- c) The appropriate emission factor(s) for each raw material used.
- d) VOC emission calculations determining the mass-weighted average VOC content of the expandable polystyrene foam resin used on a monthly basis.
- e) VOC mass emission calculations determining the monthly emission rate in tons per calendar month for the pre-expander, molding presses, and EU-FOAMMOLDING.
- f) VOC mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month for the pre-expander, molding presses, and EU-FOAMMOLDING.
- g) Expandable polystyrene foam resin usage calculations determining the annual usage rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The records shall be kept in a format acceptable to the AQD District Supervisor. All records shall be kept on file for a period of at least five years and made available to the Department upon request. [R336.1205(3), R336.1225, R336.1702, R336.1901]

Stack / Vent Restrictions

Detter /	Vent Restrictions				
	Stack & Vent ID	Maximum Diameter (inches)	Minimum Height Above Ground Level (feet)	Applicable Requirement	
1.8a	SV-EXP1	6	38	R336.1225, R336.1901,	
				40 CFR 52.21(c) & (d)	
1.8b	SV-PRESS1	6	38	R336.1225, R336.1901,	
				40 CFR 52.21(c) & (d)	
1.8c	SV-PRESS2	6	38	R336.1225, R336.1901,	
				40 CFR 52.21(c) & (d)	
1.8d	SV-PRESS3	6	38	R336.1225, R336.1901,	
				40 CFR 52.21(c) & (d)	
1.8e	SV-PRESS4	6	38	R336.1225, R336.1901,	
				40 CFR 52.21(c) & (d)	
1.8f	SV-PRESS5	6	38	R336.1225, R336.1901,	
				40 CFR 52.21(c) & (d)	
	The exhaust gases shall be discharged unobstructed vertically upwards to the ambient air.				

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The following conditions apply to: EU-BOILER

Material Limits

2.1 The permittee shall burn only natural gas in EU-BOILER. [R336.1205(3)]

Monitoring

2.2 The permittee shall install, calibrate, maintain and operate in a satisfactory manner a device to monitor and record the fuel use for EU-BOILER on a daily basis. [R336.1205(3)]

Recordkeeping / Reporting / Notification

- 2.3 All required calculations shall be completed in a format acceptable to the AQD District Supervisor and made available by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any recordkeeping, reporting or notification special condition. [R336.1205(3)]
- 2.4 The permittee shall keep, in a satisfactory manner, daily, monthly, and 12-month rolling time period fuel use records for EU-BOILER. The records must indicate the total amount of fuel used in EU-BOILER. All records shall be kept on file for a period of at least five years and made available to the Department upon request. [R336.1205(3), 40 CFR 60.48c(g)]
- 2.5 The permittee shall submit the following notifications to the AQD District Supervisor in accordance with 40 CFR 60.48c:
 - a) A notification of the date when construction was commenced, submitted no later than 30 calendar days after such date.
 - b) A notification of the actual date of startup of the source, submitted within 30 calendar days after such date. [40 CFR Part 60 Subparts A & Dc]

Stack / Vent Restrictions

	Stack & Vent ID	Maximum Diameter (inches)	Minimum Height Above Ground Level (feet)	Applicable Requirement
2.6	SV-BOILER	24	38	R336.1225, R336.1901,
				40 CFR 52.21(c) & (d)