



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL CERTIFIED MAIL  
ASHTABULA COUNTY**

Street Address:

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:  
Lazarus Gov.  
Center

**Application No:** 02-11793

**DATE:** 11/02/2000

Premix Inc  
Louise Barton  
PO Box 281 3365 East Center St  
North Kingsville, OH 44068

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Director's action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission  
236 East Town Street, Room 300  
Columbus, Ohio 43215

Very truly yours,

Thomas G. Rigo  
Field Operations and Permit Section  
Division of Air Pollution Control

CC: USEPA

NEDO



**Permit To Install  
Terms and Conditions**

**Issue Date: November 2, 2000  
Effective Date: November 2, 2000**

**FINAL PERMIT TO INSTALL 02-11793**

Application Number: 02-11793  
APS Premise Number: 0204000133  
Permit Fee: **\$6800**  
Name of Facility: Premix Inc  
Person to Contact: Louise Barton  
Address: PO Box 281 3365 East Center St  
North Kingsville, OH 44068

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**3365 East Center St  
North Kingsville, Ohio**

Description of proposed emissions unit(s):  
**Permit modification to change particulate emission limits at P012-P018, P021-P026 & P028 for a net increase. Total organic compound emissions decrease with removal of P060, P068 & P069.**

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

**Premix Inc**

**Facility ID: 0204000133**

**PTI Application: 02-11793**

**Issued: November 2, 2000**

**TERMINATION OF PERMIT TO INSTALL**

Substantial construction for installation must take place within 18 months of the effective date of this permit. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

**NOTICE OF INSPECTION**

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above-named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, or to examine records or reports pertaining to the construction, modification or installation of the source(s) of environmental pollutants identified within this permit.

**CONSTRUCTION OF NEW SOURCES**

The proposed source(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

If the construction of the proposed source(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of Ohio Administrative Code (OAC) Rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet applicable standards.

**PERMIT TO INSTALL FEE**

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 30 days of the effective date of this permit to install.

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**PUBLIC DISCLOSURE**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC Rule 3745-49-03.

**APPLICABILITY**

This Permit to Install is applicable only to the contaminant sources identified. Separate application must be made to the Director for the installation or modification of any other contaminant sources.

**BEST AVAILABLE TECHNOLOGY**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

**PERMIT TO OPERATE APPLICATION**

A Permit to Operate application must be submitted to the appropriate field office for each air contaminant source in this Permit to Install. In accordance with OAC Rule 3745-35-02, the application shall be filed no later than thirty days after commencement of operation.

**SOURCE OPERATION AFTER COMPLETION OF CONSTRUCTION**

This facility is permitted to operate each source described by this permit to install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws and regulations.

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
	P017			
			P022	
P016	P017 Cont'd	P018 Cont'd	P022 Cont'd	P023 Cont'd
		P021		
				P024
	P018			
			P023	

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P026				
			P029	
				P032
P025				
		P028		
P025 Cont'd			P030	
	P026 Cont'd			P033
	P027	P028 Cont'd		
			P030 Cont'd	
				P033 Cont'd
			P031	
				P034

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		P040 Cont'd		P048
		P041	P044 Cont'd	
P035	P038		P045	P048 Cont'd
		P042		P049
P036	P039		P046	
		P043		P050
	P040			
			P047	
P037		P044		P051

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			P063	
	P055			
				P067
		P059		
P052				
			P064	
	P056			
		P061		
P053				
			P065	
	P057			
		P062		
P054				
			P066	
	P058			

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Source Identification on Description	Resin paste disperser; C-2 (modification)			Resin Paste Disperser; C-6 (modification)
Thermoplastic additive disperser; C-0			Resin Paste Disperser; C-5 (modification)	
Thickener disperser; C-1	Resin Paste Disperser; C-4 (modification)			
Resin Paste Disperser; C-3 (modification)				Resin Paste Disperser; C-7 (modification)

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Sigma Mixer 3  
(modification)

BMC Mixer;  
Sigma Mixer 2 (modification)

BMC Mixer; Littleford  
Mixer #5 (modification)

BMC Mixer; Sigma  
Mixer 1  
(modification)

Resin  
Paste  
Disperser;  
C-8  
(modification)

BMC Mixer; Sigma  
Mixer 4 (modification)

BMC Mixer;

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	Continuous mixers #1 and #2			Extrusion machine; Compounding machine; BMC/SMC extruder #5 Premi SMC machine
BMC Mixer; Littleford Mixer #6 (modification)				
		Compounding machine; TMC machine	Compounding machine; Pilot Plant SMC machine	Extrusion machine; BMC/SMC extruder #1
BMC Dispensers-Mixers; two pilot plant dispensers-mixers (modification)	Compounding machine; SMC machine	Chain	Extrusion machine; BMC/SMC extruder #4	Extrusion machine; BMC/SMC extruder #2
BMC Mixers;				

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Extrusion machine; BMC/SM C extruder #3	Compound roller; TMC roller	press; mold press D-4	Compression mold press; mold press E-3	press; mold press E-6
		Compression mold press; mold press D-6		Compression mold press; mold press E-7
Extrusion machine; BMC/SM C extruder #3.5	Compression mold press; mold press A-6		Compression mold press; mold press E-4	
		Compression mold press; mold press E-1		Compression mold press; mold press G-1
Pipe and pump cleaning operations: cleaning room	Compression mold press; mold press B-6		Compression mold press; mold press E-5	
		Compression mold press; mold press E-2		Compression mold press; mold press G-2
	Compression mold		Compression mold	

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Compressi on mold press; mold press G-3	G-6  on mold press; mold press	Injection mold press; mold press H-2	Injection mold press; mold press H-6	BAT <u>Determination</u>
Compressi on mold press; mold press G-4	G-7 Compression mold press; mold press	Injection mold press; mold press H-3	Injection mold press; mold press H-7	Compliance with Air Toxic Policy. Use of nonphoto- chemically reactive cleanup materials.
Compressi on mold press; mold press G-5	G-8 Compression mold press; mold press	Injection mold press; mold press H-4		Compliance with Air Toxic Policy. Use of nonphoto- chemically reactive cleanup materials.
Compressi	H-1 Injection mold press; mold press	Injection mold press; mold press H-5		

Compressi

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Use of hood enclosure/dust control device and use of dust control device, at filler charge operation and at the mix operations, respectively, each of which have a control efficiency of at least 99 percent.	chemically reactive cleanup materials.  Use of hood enclosure/dust control device, at filler charge operation and at the mix operations, respectively, each of which have a control efficiency of at least 99 percent.	Use of hood enclosure/dust control device, at filler charge operation and at the mix operations, respectively, each of which have a control efficiency of at least 99 percent.  Compliance with Air Toxics Policy. Use of nonphoto-chemically reactive cleanup materials.	Use of hood enclosure/dust control device and use of dust control device, at filler charge operation and at the mix operations, respectively, each of which have a control efficiency of at least 99 percent.  Compliance with Air Toxics Policy. Use of nonphoto-chemically reactive cleanup materials.	charge operation and at the mix operations, respectively, each of which have a control efficiency of at least 99 percent.  Compliance with Air Toxics Policy. Use of nonphoto-chemically reactive cleanup materials.  Use of hood enclosure/dust control device and use of dust control device, at filler charge operation and at the mix operations, respectively, each of which have a control efficiency of at least 99 percent.
Compliance with Air Toxics Policy. Use of nonphoto-	Compliance with Air Toxics Policy. Use of nonphoto-chemically reactive cleanup materials.		Use of hood enclosure/dust control device and use of dust control device, at filler	

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<p>Compliance with Air Toxics Policy. Use of nonphoto-chemically reactive cleanup materials.</p>	<p>filler charge operation and at the mix operations, respectively, each of which have a control efficiency of at least 99 percent.</p> <p>Compliance with Air Toxics Policy. Use of nonphoto-chemically reactive cleanup materials.</p>	<p>Compliance with Air Toxics Policy. Use of nonphoto-chemically reactive cleanup materials.</p>	<p>Use of a dust control device, which has an efficiency of at least 99 percent.</p>	<p>Use of a dust control device, which has an efficiency of at least 99 percent.</p>
<p>Use of hood enclosure/dust control device and use of dust control device, at</p>	<p>Use of a dust control device, which has an efficiency of at least 99 percent.</p>	<p>Use of a dust control device, which has an efficiency of at least 99 percent.</p>	<p>Compliance with Air Toxics Policy. Use of nonphoto-chemically reactive cleanup materials.</p>	<p>Compliance with Air Toxics Policy. Use of nonphoto-chemically reactive cleanup materials.</p>
<p>Use of dust control device, at</p>	<p>Use of a dust control device, which has an efficiency of at least 99 percent.</p>	<p>Compliance with Air Toxics Policy. Use of nonphoto-chemically reactive cleanup materials.</p>	<p>Compliance with Air Toxics Policy. Use of nonphoto-chemically reactive cleanup materials.</p>	<p>Use of a dust control device, which has an efficiency of at least 99 percent.</p>

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	of at least 99 percent.	Compliance with Air Toxics Policy. Use of nonphoto-chemically reactive cleanup materials.		Toxic Policy. Use of nonphotochemically reactive cleanup materials.
	Compliance with Air Toxics Policy. Use of nonphoto-chemically reactive cleanup materials.	Use of a dust control device, which has an efficiency of at least 99 percent.	Compliance with Air Toxic Policy. Use of nonphotochemically reactive cleanup materials.	Compliance with Air Toxic Policy. Use of nonphotochemically reactive cleanup materials.
	Use of a dust control device, which has an efficiency of at least 99 percent.	Compliance with Air Toxics Policy. Use of nonphoto-chemically reactive cleanup materials.	Compliance with Air Toxic Policy. Use of nonphotochemically reactive cleanup materials.	Compliance with Air Toxic Policy. Use of nonphotochemically reactive cleanup materials.
Use of a dust control device, which has an efficiency			Compliance with Air	

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Compliance with Air Toxic Policy. Use of nonphotochemically reactive cleanup materials.	Compliance with Air Toxic Policy. Use of nonphotochemically reactive cleanup materials.	Compliance with Air Toxic Policy. Use of nonphotochemically reactive cleanup materials.	Compliance with Air Toxic Policy.	Compliance with Air Toxic Policy.
Compliance with Air Toxic Policy. Use of nonphotochemically reactive cleanup materials.	Compliance with Air Toxic Policy. Use of nonphotochemically reactive cleanup materials.	Compliance with Air Toxic Policy. Use of nonphotochemically reactive cleanup materials.	Compliance with Air Toxic Policy.	Compliance with Air Toxic Policy.
Compliance with Air Toxic Policy. Use of nonphotochemically reactive cleanup materials.	Compliance with Air Toxic Policy. Use of nonphotochemically reactive cleanup materials.	Compliance with Air Toxic Policy.	Compliance with Air Toxic Policy.	Compliance with Air Toxic Policy.
Compliance with Air Toxic Policy. Use of nonphotochemically reactive cleanup materials.	Compliance with Air Toxic Policy. Use of nonphotochemically reactive cleanup materials.	Compliance with Air Toxic Policy.	Compliance with Air Toxic Policy.	Compliance with Air Toxic Policy.

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	Compliance with Air Toxic Policy.			Compliance with Air Toxic Policy.
		Compliance with Air Toxic Policy.		
Compliance with Air Toxic Policy.	Compliance with Air Toxic Policy.		Compliance with Air Toxic Policy.	
		Compliance with Air Toxic Policy.		Compliance with Air Toxic Policy.
	Compliance with Air Toxic Policy.		Compliance with Air Toxic Policy.	
Compliance with Air Toxic Policy.		Compliance with Air Toxic Policy.		Compliance with Air Toxic Policy.
	Compliance with Air Toxic Policy.		Compliance with Air Toxic Policy.	
Compliance with Air Toxic Policy.		Compliance with Air Toxic Policy.		Compliance with Air Toxic Policy.

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			3745-31-05(D)	
			3745-17-07 (A)	
Applicable Federal & <u>OAC Rules</u>		3745-31-05(D)		3745-17-11
	3745-31-05(D)	3745-17-07 (A)		3745-31-05(A)(3)
3745-21-07 (G)(2)			3745-17-11	
	3745-17-07 (A)		3745-31-05(A)(3)	3745-21-07 (G)(2)
3745-31-05(A)(3)				3745-31-05(A)(3)
		3745-17-11	3745-21-07 (G)(2)	
	3745-17-11	3745-31-05(A)(3)		
			3745-31-05(A)(3)	
3745-31-05(D)		3745-21-07 (G)(2)		3745-31-05(D)
		3745-31-05(A)(3)		3745-17-07 (A)
3745-21-07 (G)(2)				
	3745-31-05(A)(3)		3745-31-05(D)	3745-17-11
			3745-17-07 (A)	3745-31-05(A)(3)

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			3745-17-07 (A)	
3745-21-07 (G)(2)	3745-21-07 (G)(2)			3745-21-07 (G)(2)
3745-31-05 (A)(3)	3745-31-05(A)(3)	3745-31-05(D)	3745-17-11 3745-31-05(A)(3)	3745-31-05(A)(3)
		3745-17-07 (A)		
	3745-31-05(D)		3745-21-07 (G)(2)	3745-31-05(D)
3745-31-05 (D)	3745-17-07 (A)	3745-17-11 3745-31-05(A)(3)	3745-31-05(A)(3)	3745-17-07 (A)
3745-17-07 (A)		3745-21-07 (G)(2)	3745-31-05(D)	
	3745-17-11			3745-17-11
	3745-31-05(A)(3)	3745-31-05(A)(3)	3745-17-07 (A)	3745-31-05(A)(3)
3745-17-11				
	3745-21-07 (G)(2)			3745-21-07 (G)(2)
3745-31-05 (A)(3)	3745-31-05(A)(3)	3745-31-05(D)	3745-17-11 3745-31-05(A)(3)	

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3745-31-05(A)(3)	3745-31-05(D)	3745-21-07 (G)(2)	3745-31-05(D)	3745-31-05(D)
	3745-17-07 (A)	3745-31-05(A)(3)	3745-21-07 (G)(2)	3745-21-07 (G)(2)
3745-31-05(D)			3745-31-05(A)(3)	3745-31-05(A)(3)
3745-17-07(A)	3745-17-11			
	3745-31-05(A)(3)	3745-31-05(D)	3745-31-05(D)	3745-31-05(D)
		3745-17-07 (A)	3745-21-07 (G)(2)	3745-21-07 (G)(2)
	3745-31-05(A)(3)			3745-31-05(A)(3)
3745-17-11		3745-17-11	3745-31-05(A)(3)	
3745-31-05(A)(3)		3745-31-05(A)(3)		
	3745-31-05(D)			3745-31-05(D)
3745-21-07(A)(3)	3745-17-07 (A)	3745-21-07 (G)(2)	3745-31-05(D)	3745-21-07 (G)(2)
		3745-31-05(A)(3)	3745-21-07 (G)(2)	3745-31-05(A)(3)
3745-31-05(A)(3)				
	3745-17-11		3745-31-05(A)(3)	
	3745-31-05(A)(3)			

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3745-31-05(D)	3745-31-05(A)(3)		(G)(2) 3745-31-05(A)(3)	
3745-21-07 (G)(2)		3745-31-05(D) 3745-21-07 (G)(2)		3745-31-05(D) 3745-21-07 (G)(2)
3745-31-05(A)(3)	3745-31-05(D) 3745-21-07 (G)(2) 3745-31-05(A)(3)	3745-31-05(A)(3)	3745-31-05(D) 3745-21-07 (G)(2) 3745-31-05(A)(3)	3745-31-05(A)(3)
3745-31-05(D)		3745-21-07 (G)(2)		3745-21-07 (G)(2)
3745-21-07 (G)(2)	3745-31-05(D) 3745-31-05(A)(3)	3745-31-05(A)(3)	3745-31-05(D) 3745-21-07 (G)(2)	3745-31-05(A)(3)
3745-31-05(A)(3)		3745-31-05(D)	3745-21-07 (G)(2) 3745-31-05(A)(3)	3745-31-05(D)
	3745-31-05(D) 3745-21-07 (G)(2)	3745-21-07 (G)(2) 3745-31-05(A)(3)	3745-31-05(D)	3745-21-07 (G)(2) 3745-31-05(A)(3)
3745-31-05(D)	3745-31-05(A)(3)		3745-21-07 (G)(2)	
3745-21-07 (G)(2)		3745-31-05(D) 3745-21-07	3745-31-05(A)(3)	3745-31-05(D)

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3745-21-07 (G)(2)	3745-31-05(D)	3745-31-05(A)(3)	3745-31-05(D)  3745-21-07 (G)(2)	
3745-31-05(A)(3)	3745-21-07 (G)(2)  3745-31-05(A)(3)	3745-31-05(D)  3745-21-07 (G)(2)	3745-31-05(A)(3)	3745-31-05(D)  3745-21-07 (G)(2)  3745-31-05(A)(3)
3745-31-05(D)	3745-31-05(D)	3745-31-05(A)(3)	3745-31-05(D)  3745-21-07 (G)(2)	
3745-21-07 (G)(2)	3745-21-07 (G)(2)		3745-31-05(A)(3)	3745-31-05(D)  3745-21-07 (G)(2)
3745-31-05(A)(3)	3745-31-05(A)(3)	3745-21-07 (G)(2)	3745-31-05(D)	3745-31-05(A)(3)
3745-31-05(D)	3745-31-05(D)	3745-31-05(A)(3)	3745-31-05(D)  3745-21-07 (G)(2)	
3745-31-05(D)	3745-21-07 (G)(2)	3745-31-05(D)	3745-31-05(A)(3)	3745-31-05(D)
3745-21-07 (G)(2)	3745-31-05(A)(3)	3745-21-07 (G)(2)	3745-31-05(D)	
3745-31-05(A)(3)	3745-31-05(D)	3745-31-05(A)(3)	3745-21-07 (G)(2)	
3745-31-05(A)(3)	3745-21-07 (G)(2)		3745-31-05(A)(3)	

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Permit Allowable Mass Emissions Control/Usage Requirements	*	and 20 pounds/day of OC emissions from the production operation. 25 pounds/day and 4.56 TPY of OC emissions from the production operations and cleanup operations, combined.	from any stack shall not exceed twenty percent opacity as a six-minute average, except as provided by rule.	*
8 pounds/hour and 15 pounds/day of OC emissions from the production operation. 18 pounds/day and 3.29 TPY of OC emissions from the production operations and cleanup operations, combined.	**	** ***	0.59 pound/hour and 2.56 TPY of PM emissions.	0.59 pound/hour and 2.56 TPY of PM emissions.
	*	Visible particulate emissions from any stack shall not exceed twenty percent opacity as a six-minute average, except as provided by rule.	*	2.20 pounds/hour and 9 pounds/day of OC emissions from the production operation. 14 pounds/day and 2.55 TPY of OC emissions from the production operations and cleanup operations, combined.
	**	*	2.44 pounds/hour and 16 pounds/day of OC emissions from the production operation. 21 pounds/day and 3.83 TPY of OC emissions from the production operations and cleanup operations, combined.	** ***
	*	0.59 pound/hour and 2.56 TPY of PM emissions.	*	Visible particulate emissions from any stack shall not exceed twenty percent opacity as a six-minute average, except as provided by rule.
	*	2.74 pounds/hour and 21 pounds/day of OC emissions from the production operation. 26 pounds/day and 4.75 TPY of OC emissions from the production operations and cleanup operations, combined.	** ***	*
	*	** ***	Visible particulate emissions from any stack shall not exceed twenty percent opacity as a six-minute average, except as provided by rule.	0.01 pound/hour and 0.03 TPY of PM emissions.
**	3.02 pounds/hour	Visible particulate emissions		1.62 pounds/hour and 10

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pounds/day of OC emissions from the production operation. 13 pounds/day and 2.37 TPY of OC emissions from the production operations and cleanup operations, combined.	by rule. * 0.01 pound/hour and 0.03 TPY of PM emissions. * 0.01 pound/hour and 0.03 TPY of PM emissions. * 1.56 pounds/hour and 10 pounds/day of OC emissions from the production operation. 13 pounds/day and 2.37 TPY of OC emissions from the production operations and cleanup operations, combined.	0.01 pound/hour and 0.03 TPY of PM emissions. * 1.70 pounds/hour and 10 pounds/day of OC emissions from the production operation. 13 pounds/day and 2.37 TPY of OC emissions from the production operations and cleanup operations, combined. ** *** Visible particulate emissions from any stack shall not exceed twenty percent opacity as a six-minute average, except as provided by rule.	cleanup operations, combined. ** *** Visible particulate emissions from any stack shall not exceed twenty percent opacity as a six-minute average, except as provided by rule. * 0.10 pound/hour and 0.44 TPY of PM emissions. 8 pounds/hour and 40 pounds/day of OC emissions from the production operation.	as a six-minute average, except as provided by rule. * 0.10 pound/hour and 0.44 TPY of PM emissions. 8 pounds/hour and 40 pounds/day of OC emissions from the production operation. 50 pounds/day and 9.13 TPY of OC emissions from the production operations and cleanup operations, combined. ** ***
Visible particulate emissions from any stack shall not exceed twenty percent opacity as a six-minute average, except as provided	** *** Visible particulate emissions from any stack shall not exceed twenty percent opacity as a six-minute average, except as provided by rule. *	* 0.21 pound/hour and 0.91 TPY of PM emissions. 8 pounds/hour and 40 pounds/day of OC emissions from the production operation. 50 pounds/day and 9.13 TPY of OC emissions from the production operations and	50 pounds/day and 9.13 TPY of OC emissions from the production operations, combined. ** *** Visible particulate emissions from any stack shall not exceed twenty percent opacity	Visible particulate emissions from any stack shall not exceed twenty percent opacity as a six-minute average, except as provided by rule. * 0.10 pound/hour and 0.44 TPY of PM

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emissions.	average, except as provided by rule.	7 pounds/day and 1.27 TPY of OC emissions from the production operations and cleanup operations, combined.	TPY of PM emissions.	and cleanup operations, combined.
8	*		*	**
pounds/hour and 40 pounds/day of OC emissions from the production operation.	0.71 pound/hour and 3.10 TPY of PM emissions.	** ***	4.7 pounds/day of OC emissions from the production operation. 5 pounds/day and 0.91 TPY of OC emissions from the production operations and cleanup operations, combined.	8 pounds/hour and 40 pounds/day of OC emissions from the production operation.
50	*	Visible particulate emissions from any stack shall not exceed twenty percent opacity as a six-minute average, except as provided by rule.		60 pounds/day and 10.95 TPY of OC emissions from the production operations and cleanup operations, combined.
pounds/day and 9.13 TPY of OC emissions from the production operations and cleanup operations, combined.	7 pounds/day and 1.27 TPY of OC emissions from the production operations and cleanup operations, combined.		** ***	**
** ***	** ***	0.48 pound/hour and 2.11 TPY of PM emissions.	8 pounds/hour and 40 pounds/day of OC emissions from the production operation.	*
Visible particulate emissions from any stack shall not exceed twenty percent opacity as a six-minute average, except as provided by rule.	Visible particulate emissions from any stack shall not exceed twenty percent opacity as a six-minute average, except as provided by rule.	1.06 pounds/hour and 12.7 pounds/day and 2.33 TPY of OC emissions from the production operations and cleanup operations, combined.	60 pounds/day and 10.95 TPY of OC emissions from the production operations and cleanup operations, combined.	8 pounds/hour, 40 pounds/day and 7.3 TPY of OC emissions from the production operations and cleanup operations, combined.
** ***	** ***	** ***	**	**
Visible particulate emissions from any stack shall not exceed twenty percent opacity as a six-minute	*	Visible particulate emissions from any stack shall not exceed twenty percent opacity as a six-minute average, except as provided by rule.	8 pounds/hour and 40 pounds/day of OC emissions from the production operation.	*
0.71 pound/hour and 3.10 TPY of PM emissions.			60 pounds/day and 10.95 TPY of OC emissions from the production operations	0.96 pound/hour, 11.5 pounds/day and 2.10 TPY of OC emissions from the production operations and cleanup
a	*			
six-minute		0.10 pound/hour and 0.46		

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operations, combined.	from the production operations and cleanup operations, combined.	4.3 pounds/day, and 0.79 TPY of OC emissions from the production operations and cleanup operations, combined.		**
**	**		0.44 pound/hour, 10.56 pounds/day and 1.93 TPY of OC emissions.	*
*	*	**	**	0.44 pound/hour, 10.56 pounds/day and 1.93 TPY of OC emissions.
7.2 pounds/day, and 1.31 TPY of OC emissions from the production operations and cleanup operations, combined.	0.76 pound/hour, 9 pounds/day and 1.64 TPY of OC emissions from the production operations and cleanup operations, combined.	18.1 pounds/day and 3.30 TPY of OC emissions from the cleanup operations.	*	**
**	**	**	0.44 pound/hour, 10.56 pounds/day and 1.93 TPY of OC emissions.	*
**	**	1.46 pounds/hour, 17.5 pounds/day and 3.20 TPY of OC emissions from the production operations and cleanup operations, combined.	**	0.44 pound/hour, 10.56 pounds/day and 1.93 TPY of OC emissions.
**	*	**	*	**
*	6.5 pounds/day, and 1.18 TPY of OC emissions from the production operations and cleanup operations, combined.	*	0.44 pound/hour, 10.56 pounds/day and 1.93 TPY of OC emissions.	*
0.82 pound/hour, 9.8 pounds/day and 1.79 TPY of OC emissions	**	0.44 pound/hour, 10.56 pounds/day and 1.93 TPY of OC emissions.	**	0.44 pound/hour, 10.56 pounds/day and 1.93 TPY of OC emissions.
**	**	**	*	**
**	*	*	0.44 pound/hour, 10.56 pounds/day and 1.93 TPY of OC emissions.	*
**	*	*	0.44 pound/hour, 10.56 pounds/day and 1.93 TPY of OC emissions.	**
**	*	*	0.44 pound/hour, 10.56 pounds/day and 1.93 TPY of OC emissions.	*

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u> emissions.	<u>BAT Determination</u> 0.64 pound/hour, 13.68 pounds/day and 2.49 TPY of OC emissions.	<u>Applicable Federal &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u> emissions.
0.44 pound/hour, 10.56 pounds/day and 1.93 TPY of OC emissions.	**	**	**  *	**  *
**	0.44 pound/hour, 10.56 pounds/day and 1.93 TPY of OC emissions.	0.64 pound/hour, 13.68 pounds/day and 2.49 TPY of OC emissions.	0.37 pound/hour, 8.88 pounds/day and 1.62 TPY of OC emissions.  **	0.37 pound/hour, 8.88 pounds/day and 1.62 TPY of OC emissions.  **
*	**	**	*	**
0.44 pound/hour, 10.56 pounds/day and 1.93 TPY of OC emissions.	*	*	0.37 pound/hour, 8.88 pounds/day and 1.62 TPY of OC emissions.	0.37 pound/hour, 8.88 pounds/day and 1.62 TPY of OC emissions.
**	0.74 pound/hour, 17.76 pounds/day and 3.24 TPY of OC emissions.	0.74 pound/hour, 17.76 pounds/day and 3.24 TPY of OC emissions.	**  *	**  *
*	**	**	0.37 pound/hour, 8.88 pounds/day and 1.62 TPY of OC emissions.	0.37 pound/hour, 8.88 pounds/day and 1.62 TPY of OC emissions.
0.44 pound/hour, 10.56 pounds/day and 1.93 TPY of OC emissions.	0.74 pound/hour, 17.76 pounds/day and 3.24 TPY of OC emissions.	**	**	**
**	**	*	*	**
0.44 pound/hour, 10.56 pounds/day and 1.93 TPY of OC emissions.	*	0.64 pound/hour, 13.68 pounds/day and 2.49 TPY of OC emissions.	0.37 pound/hour, 8.88 pounds/day and 1.62 TPY of OC emissions.	

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\*The emissions limit based on this applicable rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).

\*\* The combined VOC emissions from P010-P018, P021-P059 and P061-P067 shall be limited to 183.53 tons per year, based upon a rolling, 12-month summation. (This limitation is equivalent to the daily styrene throughput restriction or mold compound usage restriction.)

\*\*\* The combined PM emissions from P012-P018 and P021-P028 shall be limited to 21.34 tons per year.

SUMMARY  
 TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>	<u>Tons/Year Change</u>
PM	21.34	+ 8.46
OC	183.53	-4.86

**RECORD(S) RETENTION AND AVAILABILITY**

All records required by this Permit to Install shall be retained on file for a period of not less than three years unless otherwise indicated by Ohio Environmental Protection Agency. All records shall be made available to the Director, or any representative of the Director, for review during normal business hours.

**REPORTING REQUIREMENTS**

Unless otherwise specified, reports required by the Permit to Install need only be submitted to **Ohio EPA, Northeast District Office, 2110 E. Aurora Road, Twinsburg, OH 44087.**

**WASTE DISPOSAL**

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The owner/operator shall comply with any applicable state and federal requirements governing the storage, treatment, transport and disposal of any waste material generated by the operation of the sources.

### **MAINTENANCE OF EQUIPMENT**

This source and its associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers in order to minimize air contaminant emissions.

### **MALFUNCTION/ABATEMENT**

In accordance with OAC RULE 3745-15-06, any malfunction of the source(s) or associated air pollution control system(s) shall be reported immediately to the **Ohio EPA, Northeast District Office, 2110 E. Aurora Road, Twinsburg, OH 44087.**

Except as provided by OAC Rule 3745-15-06(A)(3), scheduled maintenance of air pollution control equipment that requires the shutdown or bypassing of air pollution control system(s) must be accompanied by the shutdown of the associated air pollution sources.

### **AIR POLLUTION NUISANCES PROHIBITED**

The air contaminant source(s) identified in this permit may not cause a public nuisance in violation of OAC Rule 3745-15-07.

### **ADDITIONAL SPECIAL TERMS AND CONDITIONS**

#### **Introduction**

The company manufactures thermoset composite molding compounds and molded parts. This permit modification increases the particulate emissions allowable rates for P013-P015, P021-P026 and P028. The particulate emissions allowable rates will be decreased for P012 and P016-P018.

Styrene throughput restrictions at P010-P018, P025-P028, and P033-P040 as well as restrictions on mold compound usage at P041-P059 and P061-P067 are included to limit volatile organic compound emissions. Emissions units P060, P068 and P069 will be omitted from this permit modification since the

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units have been removed.

**A. Operational Requirements**

1. Only non-photochemically reactive cleanup materials shall be employed at (P010-P018 and P021-P040). A photochemically reactive material is defined by OAC rule 3745-21-01(C)(5) and is determined at the time the material is employed.
2. The permittee shall employ the following practices to minimize waste and limit air contaminant emissions at the pipe and pump cleaning operations (P039):
  - a. self-closing containers shall be employed at each work station;
  - b. employees shall be trained to clean parts efficiently with adequate amounts of solvents; and,
  - c. alternate cleaning procedures (i.e. wipe down of waste resin on parts prior to solvent cleaning) shall be employed whenever possible.
3. The maximum styrene throughput for the emissions units shall not exceed the rates specified in the following table:

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<u>Emissions Unit No.</u>	<u>Emissions Unit Description</u>	<u>Max. Styrene Throughput lbs/day</u>
P010	Dispenser C-0	51,400
P011	Dispenser C-1	78,800
P012	Dispenser C-2	68,400
P013	Dispenser C-3	72,000
P014	Dispenser C-4	54,800
P015	Dispenser C-5	30,800
P016	Dispenser C-6	34,200
P017	Dispenser C-7	34,200
P018	Dispenser C-8	34,200
P025	BMC Mixer No. 5	7,000
P026	BMC Mixer No. 6	7,000
P027	BMC Mixer Nos. 1 & 2	12,700
P028	Two Pilot Dispensers	16,000
P033	Extrusion Machine No. 4	11,500
P034	Extrusion Machine No. 5	7,200
P035	Extrusion Machine No. 1	9,800
P036	Extrusion Machine No. 2	9,000
P037	Extrusion Machine No. 3	6,500
P038	Extrusion Machine No. 3.5	4,300

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P040 TMC Roller 17,500

4. The maximum mold compound usage for the emissions units shall not exceed the rates specified in the following table:

<u>Emissions Unit No.</u>	<u>Emissions Unit Description</u>	<u>Maximum Mold Compound Usage lbs/day*</u>	
P041	Mold Press A-6	7,880	
P042	Mold Press B-6	7,880	
P043	Mold Press D-4	7,880	
P044	Mold Press D-6	7,880	
P045-P051	Mold Presses E-1 to E-7	7,880	each
P052	Mold Press G-1	7,880	
P053	Mold Press G-2	13,200	
P054	Mold Press G-3	13,200	
P055	Mold Press G-4	10,200	
P056	Mold Press G-5	10,200	
P057	Mold Press G-6	13,200	
P058	Mold Press G-7	13,200	
P059	Mold Press G-8	10,200	
P061-P067	Mold Presses H-1 to H-7	6,600	each

\* for mold compounds with a styrene content of 18 percent, by weight, or less.

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5. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

**B. Recordkeeping Requirements**

DISPERSERS (P010-P018 and P028), BMC MIXERS (P021-P027)  
COMPOUNDING MACHINES (P029-P032),  
EXTRUSION MACHINES (P033-P038) and TMC ROLLER (P040)

1. The permittee shall collect and record the following information for each day for each above named emissions unit:
  - a. the company identification for each production material and cleanup material employed;
  - b. the actual number of hours that the emissions unit was in operation;
  - c. the weight of each production material employed, in pounds;
  - d. the styrene content of each production material employed, in percent by weight;
  - e. the styrene throughput of all production materials, in pounds;
  - f. the weight of each cleanup material dispensed, in pounds;
  - g. the weight of each cleanup material returned, in pounds;
  - h. the total organic compound emission rate for the combination of all cleanup materials, in pounds;
  - i. the total organic compound emission rate for the combination of all production materials, in pounds;
  - j. (for each of P010-P018, P021-P024 and P029-P031 only) the average hourly organic compound emission rate for all production materials, i.e., (i) divided by (b), in pounds per hour (average);
  - k. (for each of P010-P018, P021-P027, P029-P038 & P040 only) the total organic compound emission rate for the production operations and cleanup operations, combined; i.e., the sum of (h)

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and (I), in pounds per day; and,

1. (for each of P027, P032, P033, P035, P036, & P040 only) the average hourly organic compound emission rate for the production operations and cleanup operations, combined, i.e. (k) divided by (b), in pounds per hour (average).

**PIPE & PUMP CLEANING OPERATIONS (P039)**

2. The permittee shall collect and maintain monthly records of the following information for the cleanup operations:
  - a. the company identification for each cleanup material employed;
  - b. documentation on whether or not each cleanup material is a photochemically reactive material, as employed, in accordance with OAC rule 3745-21-01(C)(5);
  - c. the actual number of days that the emissions unit was in operation;
  - d. the total weight of cleanup material added to the cleaning tanks, in pounds;
  - e. the total weight of waste cleanup material that is disposed, in pounds;
  - f. the total evaporated cleanup material, in pounds; and,
  - g. the average daily organic compound emission rate, i.e., (f) divided by (c), in pounds per day (average).

**MOLD PRESSES (P041-P059, P061-P067)**

3. The permittee shall collect and record the following information for each day for each mold press:
  - a. the company identification for each mold compound employed;
  - b. the number of pounds of each mold compound employed;
  - c. the total organic compound emission rate for all mold compounds employed, in pounds per day;
  - d. the total number of hours the emissions unit was in operation; and,
    - e. the average hourly organic compound emission rate for all mold compounds employed, i.e., c/d, in pounds per hour (average).

**ALL EMISSIONS UNITS (P010-P018, P021-P059, AND P061-P067)**

4. All records, required by terms B.1-B.3., as well as any supporting analyses and computations, shall be retained in the company's files for a period of not less than five years and shall be made available to the Director or any authorized representative of the Director for review

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during normal business hours.

5. The permittee shall collect and record the following information for each change where the air toxic modeling was required pursuant to the Air Toxic Policy:
  - a. background data that describes the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.); and,
  - b. a copy of the resulting computer model runs that show the results of the application of the Air Toxic Policy for the change.

**C. Reporting Requirements**

EMISSIONS UNITS (P010-P018, P025-P028, P033-P038 and P040)

1. The permittee shall submit annual reports that identify any exceedances of the daily styrene throughput limitation, as specified in Term A.3., at any of the above named emissions units, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year for the previous calendar year.

EMISSIONS UNITS (P010-P018 and P021-P040)

2. The permittee shall submit quarterly deviation (excursion) reports, which include the following information, to the Ohio EPA Northeast District Office for each above named emissions unit:
  - a. (for each of P010-P018, P021-P024, P029-P031 only), an identification of each day during which the average hourly organic compound emission rate exceeded 8 pounds per hour from the production operations, and the actual average hourly emission rate, in pounds per hour, for each such day;
  - b. (for each of P010-P018 and P028 only) an identification of each day during which the organic compound emission rate exceeded the daily limit for production operations specified in the Air Emissions Summary, and the actual emission rate in pounds per day for each such day;
  - c. (for each of P010-P018 and P025-P028 only) an identification of each day during which the organic compound emission rate exceeded the daily limit for all operations specified in the Air Emissions Summary, and the actual emission rate in pounds per day for each such day;
  - d. (for P027, P032, P033, P035, P036 and P040 only), an identification of each day during which the average hourly organic compound emission rate exceeded 8 pounds per hour from the production operations and cleanup operations, combined, and the actual average hourly emission

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- rate, in pounds per hour, for each such day;
- e. (for each of P021-P024 and P029-P031 only), an identification of each day during which the organic compound emission rate exceeded 40 pounds per day from the production operations, and the actual emission rate in pounds per day for each such day;
  - f. (for each of P021-P024 only), an identification of each day during which the organic compound emission rate exceeded 50 pounds per day from all operations, and the actual emission rate in pounds per day for each such day;
  - g. (for each of P029-P031 only) an identification of each day during which the organic compound emissions exceeded 60 pounds per day from all operations, and the actual emission rate in pounds per day for each such day;
  - h. (for each of P032-P038 and P039) an identification of each day during which the organic compound emissions exceeded the daily limit for all operations specified in the Air Emissions Summary, and the actual emission rate in pounds per day for each such day; and,
  - i. (for P039 only) an identification of each month during which the average, daily organic compound emission rate exceeded 18.1 pounds per day, and the actual, average, daily emission rate in pounds per day for each such day.

**MOLD PRESSES (P041-P059 and P061-P067)**

3. The permittee shall submit annual reports that identify any exceedances of the daily mold compound usage limitation for any mold press as specified in Term A.4., as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. for the previous calendar year.
4. The permittee shall submit quarterly deviation (excursion) reports, which include the following information, to the Ohio EPA Northeast District Office for each above named emissions unit:
  - a. an identification of each day during which the average hourly organic compound emission rate exceeded the hourly limit from the production operations specified in the Air Emissions Summary, and the actual average hourly emission rate, in pounds per hour, for each such day; and,
  - b. an identification of each day during which the daily organic compound emission rate exceeded the daily limit from the production operations specified in the Air Emissions Summary, and the actual daily emission rate, in pounds per hour, for each such day.

**ALL EMISSIONS UNITS (P010-P018, P021-P059 AND P061-P067)**

5. The deviation (excursion) reports, as specified by Terms C.2. and C.4, shall be submitted quarterly, i.e., by January 31, April 30, July 31 and October 31 of each year and shall cover the

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previous calendar quarters. The permittee shall submit a description of any corrective actions taken to address any exceedance of any emission limitation. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter.

6. The permittee shall submit an annual report to the Ohio EPA Northeast District Office which includes the total OC emissions from each emissions unit for the previous calendar year. This report shall be submitted by April 15 of each year.

#### **D. Testing Requirements**

EMISSIONS UNITS (P010-P018, P025-P028, P033-P038 and P040)

1. Compliance with the daily styrene throughput limits for all emissions units specified in term A.3. of this permit shall be determined in accordance with the following method(s):

$$AS(\text{lbs/day}) = \text{Summation of } P_i \times SC_i.$$

where:

$$AS(\text{lbs/day}) = \text{the available styrene.}$$

$$P_i = \text{the production rate of material I, in pounds per day.}$$

$$SC_i = \text{the styrene content of material I, in pounds of available styrene per pound of production material.}$$

ALL EMISSIONS UNITS (P010-P018, P021-P059 AND P061-P067)

2. Compliance with the daily organic compound emissions limitation(s) noted in the Air Emission Summary of this permit from production operations at the dispersers (P010-P018 & P028), the open BMC mixers (P021-P024), the closed BMC mixers (P026 & P027), the compounding machines (P029-P032), the extruders (P033-P038), and the TMC roller (P040) shall be determined in accordance with the following method(s):

$$ES(\text{lbs/day}) = AS \times EF.$$

where:

$$ES(\text{lbs/day}) = \text{the organic compound emissions as styrene from production operations, in pounds per day.}$$

$$EF(\text{S/DISP}) = \text{emission factor for styrene emissions from the dispersers, which is 0.000292 pound per pound of available styrene, as determined from emissions testing on P012, conducted on June 11, 1998.}$$

EF(S/OBMC) = emission factor for styrene emissions from the open BMC mixers, which is 0.0125 pound per pound of available styrene, as determined from emissions testing on P022, conducted on September 18, 1997.

EF(S/CBMC) = EF(S/CMPD) = EF (S/EXT) = EF (S/TMCROLL)  
 = emission factor for styrene emissions from the closed BMC mixers, compounding machines, extruders or the TMC roller, which is 0.001 pound per pound of available styrene, as determined from engineering estimates.

3. Compliance with the daily organic compound emissions limitation(s) noted in the Air Emission Summary of this permit from all operations at the dispersers (P010-P018 & P028), the BMC mixers (P021-P027), the compounding machines (P029-P032), the extruders (P033-P038), and the TMC roller (P040) shall be determined in accordance with the following method(s):

- a. Determination of daily emissions from production operations, ES(lbs/day), shall be made as discussed in term D.2.
- b. Determination of daily emissions from cleanup operations, EC(lbs/day), shall be made in accordance with the following method(s):

$$EC(\text{lbs/day}) = \text{Summation of } [(WC/OUT - WC/IN)_i]$$

where:

EC(lbs/day) = the organic compound emissions from cleanup operations, in pounds per day.

WC/OUT<sub>i</sub> = weight of cleanup material I dispensed to a work station, in pounds per day.

WC/IN<sub>i</sub> = weight of cleanup material I returned to solvent dispensing area, in pounds per day.

- c. Determination of daily emissions from all operations, EOC(lbs/day), shall be determined in accordance with the following method(s):

$$EOC(\text{lbs/day}) = ES(\text{lbs/day}) + EC(\text{lbs/day}).$$

4. Compliance with the daily organic compound emissions limitation(s) noted in the Air Emission Summary of this permit from the pipe and pump cleaning operations (P039) shall be determined in accordance with the following method(s):

- a. EC(lbs/month)  
 = summation of  $\{[(WC/OUT - (WC/IN \times PC/100))_i]$

where:

EC(lbs/month) = the organic compound emissions from cleanup operations, in pounds per month.

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WC/OUTi = weight of cleanup material I dispensed to cleaning tanks, in pounds per month.

WC/INi = weight of waste cleanup material I disposed to off-site waste handling facility, in pounds per month.

PC = average weight percentage of cleanup material solvent in waste cleanup material, as determined from methods required by Additional Special Term and Condition D.4.c.

b.  $EC(\text{average lbs/day}) = EC(\text{lbs/month})/\text{DAYS}$ .

where:

DAYS = the actual number of days the emission unit was in operation as determined from recordkeeping required by term B.2.c.

c. A determination shall be made of volatile organic compound content (percent by weight), solids content, and density of composite sample(s) of the waste cleanup material generated at the pipe and pump cleaning operations (P039). The composite waste sample(s) from the pipe and pump operations shall not be mixed with other wastes generated from different operations. The permittee shall determine the composition of the material from data determined by an analysis of each material, as generated, by US. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

5. Compliance with the daily organic compound emissions limitation(s) noted in the Air Emission Summary of this permit from each of the mold presses (P041-P059 & P061-P067) shall be determined in accordance with the following method(s):

$ES(\text{lbs/day}) = \text{Summation of } P_i \times EF$ .

where:

$ES(\text{lbs/day})$  = the organic compound emissions as styrene from production operations, in pounds per day.

$P_i$  = the production rate of material I, in pounds per day.

$EF(S/MP)$  = emission factor for styrene emissions from the mold presses, which is 0.00134 pound per pound of mold compound, as determined from a Society of Plastics Industry report, "Styrene Emissions during the Charging and Molding Cycle".

6. Compliance with the hourly organic compound emissions limitation(s) noted in the Air Emission

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Summary of this permit from production operations at the dispersers (P010-P018 & P028), four BMC mixers (P021-P024), three compounding machines (P029-P031), the extruders (P033-P038) shall be based upon the recordkeeping specified in section B.1.j. of these terms and conditions.

7. Compliance with the hourly organic compound emissions limitation(s) noted in the Air Emission Summary of this permit from production operations at the mold presses (P041-P059 & P061-P067) shall be based upon the record keeping specified in section B.3.e. of these terms and conditions.
8. Compliance with the hourly organic compound emissions limitation(s) noted in the Air Emission Summary of this permit from all operations at the continuous BMC mixers (P027), pilot compounding machine (P032), extruders (P033, P035 & P036), the TMC roller (P040) shall be based upon the record keeping specified in section B.1.l. of these terms and conditions.

DISPERSERS (P012-P018 & P028) and BMC MIXERS (P021-P027)

9. Compliance with the 20 percent opacity limit, as a six-minute average, on visible particulate matter emissions for each of the above named emissions units shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in U.S. EPA Reference Method 9.
10. Compliance with the hourly particulate matter emissions limitation(s) noted in the Air Emission Summary of this permit for each of the above named emissions units shall be determined by calculation of the actual worst case emission rate for particulate matter in accordance with the following method(s):
  - a. determination of maximum, available, hourly PM content for all mixes:

$$\text{HPM} = \text{DSC}/100 \times \text{P}$$

HPM = maximum, available PM content, in pounds of available PM per hour.

DSC = the maximum, dry solids content of the production material, in percent by weight.

P = the maximum production rate, in pounds per hour.

- b. To calculate emissions from production operations for purposes of determining compliance with the hourly, PM emission limitations of this permit, the permittee shall employ the following:

$$\text{EPM}(\text{lbs/hr}) = \text{HPM} \times \text{EF} \times (1 - \text{CE})$$

EPM (lbs/hr) = maximum hourly, PM emissions, in pounds per hour.

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EF = the emission factor for PM emissions, which is 0.01 pound of uncontrolled PM per pound of available PM content, as noted in section 6.4 of AP-42 for paint and varnish manufacturing.

CE = control efficiency of PM control device, 0.99 pound of controlled PM per pound of uncontrolled PM, as specified in an application for PTI 02-8922.

11. Compliance with the annual particulate matter emissions limitation(s) noted in the Air Emission Summary of this permit from all operations is determined by multiplying the worst case hourly particulate matter emissions by 8,760 hours per year and then dividing by 2000 pounds per ton.

ALL EMISSIONS UNITS (P010-P018, P021-P059 AND P061-P067)

12. Compliance with the annual organic compound emissions limitation(s) noted in the Air Emission Summary of this permit from all operations is determined by summing the total, daily organic compound emissions and then dividing the sum by 2000 pounds per ton.

EMISSIONS UNITS (P010-P018, P021-P038, P040-P059, and P061-P067)

13. Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

**E. Misc Requirements**

None.