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Facility Name: **General Electric - Electromaterials**

Application Number: **06-5425**

Date: **June 26, 1998**

GENERAL PERMIT CONDITIONS

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 SOURCE(S)

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 Ohio 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

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(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 prove to be inadequate or 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 15 days of the effective date of this permit to install.

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.

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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 made at least 90 days prior to start-up of the source.

NINETY DAY OPERATING PERIOD

The facility will be permitted to operate during a 90-day period in accordance with OAC Rule 3745-35-02(C)(4)(b). The purpose of this period of operation is to fulfill the performance tests conditions used in the determination of compliance with the provisions of this Permit to Install or other applicable Ohio EPA rules.

SOURCE OPERATION AFTER COMPLETION OF CONSTRUCTION

This facility is permitted to operate each source described by this permit to install for 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 & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
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AIR EMISSION SUMMARY

The air contaminant emissions units listed below comprise the Permit to Install for **General Electric - Electromaterials** located in **Coshocton** County. The emissions units listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

<u>Ohio EPA Source Number</u>	P155 ²	P151 (IF P151 IS MODI-FIED) ¹
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P154^{1,2}

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T005^{1,2}

T004^{1,2}

P160

P157^{1,2}

P156^{1,2}

T003^{1,2}

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				P158 ^{1,2}
			T009 ^{1,2}	
		T008 ^{1,2}		
	T007 ^{1,2}			
T006 ^{1,2}				

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Source
Identification
Description

Treater 1040
with Oven

Treater 1023
with Oven

Treater 1041 with
Oven

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Reactor 9 GETEK line	Weigh Hopper and Reactor 1 GETEK line	Weigh Hopper and Reactor 2 GETEK line	Equilibration hold Tank and Weigh Hopper 1 GETEK line	Equilibration hold Tank and Weigh Hopper 2 GETEK line
(14) Resin Hold Tanks GETEK line	Weigh Hopper and Reactor 1 GETEK line			

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Mix Tank 1 GETEK line	Mix Tank 2 GETEK line	Hold Tank 1 GETEK line	Hold Tank 2 GETEK line	Weigh Hopper and Mix Tank 3 TS line

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Weigh Hopper and Mix Tank 4 TS line			(2) Gravity Tanks for TR 1023 GETEK line	(2) Gravity Tanks for TR 1023 TS line
	(2) Gravity Tanks for TR 1040 GETEK line	(2) Gravity Tanks For TR 1040 TS line		
Hold Tank 3 TS line				
Hold Tank 4 TS line				(2) Gravity Tanks for TR 1041

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GETEK line	TS line	<p style="text-align: center;"><u>BAT Determination</u></p> <p>Install, operate, and maintain a total enclosure around the coating operation and vent the captured VOC emissions from the total enclosure to a control device during actual coating operations, according to 40 CFR 60.742.b.2, that is at least 98 percent efficient, which constitutes BACT pursuant to 40 CFR 52.21.j.2, with a compliance determination as specified in the section of this permit entitled ADDITIONAL SPECIAL TERMS AND CONDITIONS, OPERATIONAL TERMS AND CONDITIONS, Federally Enforceable</p>	<p>Install, operate, and maintain a total enclosure around the coating operation and vent the captured VOC emissions from the total enclosure to a control device during actual coating operations, according to 40</p>	<p>CFR 60.742.b.2, that is at least 98 percent efficient, which constitutes BACT pursuant to 40 CFR 52.21.j.2, with a compliance determination as specified in the section of this permit entitled ADDITIONAL SPECIAL TERMS AND CONDITIONS, OPERATIONAL TERMS AND CONDITIONS, Federally Enforceable</p>
(2) Gravity Tanks for TR 1041				

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Install , operate , and maintain a total enclosure around the coating operation and the capture and emission from the enclosure to a control device during actual operations, according to 40 CFR	60.742.b.2, that is at least 98 percent efficient, which constitutes BACT pursuant to 40 CFR 52.21.j.3, with a compliance determination as specified in the section of this permit entitled	Product recovery reflux condenser	40 CFR 60.742.c.1. Compliance determination is specified in the section of this permit entitled ADDITIONAL SPECIAL TERMS AND CONDITIONS, OPERATIONAL TERMS AND CONDITIONS, Federally Enforceable.	BACT pursuant to 40 CFR 52.21, while preparation of the coating is taking place within the vessel, according to 40 CFR 60.742.c.1. Compliance determination is as specified in the section of this permit entitled ADDITIONAL SPECIAL TERMS AND CONDITIONS, OPERATIONAL TERMS AND CONDITIONS, Federally Enforceable
	ADDITIONAL SPECIAL TERMS AND CONDITIONS, Federally Enforceable	The owner or operator shall install, operate, and maintain a cover on each piece of affected coating mix preparation equipment and vent VOC emissions from the covered mix equipment to a control device that is at least 98 percent efficient, which constitutes BACT pursuant to 40 CFR 52.21, while preparation of the coating is taking place within the vessel, according to	The owner or operator shall install, operate, and maintain a cover on each piece of affected coating mix preparation equipment and vent VOC emissions from the covered mix equipment to a control device that is at least 98 percent efficient, which constitutes	The owner or operator shall install, operate, and maintain a cover on each piece of affected coating mix preparation equipment and vent VOC emissions from the covered mix equipment to a control device

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that is at least 98 percent efficient, which constitutes BACT pursuant to 40 CFR 52.21, while preparation of the coating is taking place within the vessel, according to 40 CFR 60.742.c.1. Compliance determination is as specified in the section of this permit entitled ADDITIONAL SPECIAL TERMS AND CONDITIONS, Federally Enforceable.	section of this permit entitled ADDITIONAL SPECIAL TERMS AND CONDITIONS, OPERATIONAL TERMS AND CONDITIONS, Federally Enforceable. The owner or operator shall install, operate, and maintain a cover on each piece of affected coating mix preparation equipment and vent VOC emissions from the covered mix equipment to a control device that is at least 98 percent efficient, which constitutes BACT pursuant to 40 CFR	52.21, while preparation of the coating is taking place within the vessel, according to 40 CFR 60.742.c.1. Compliance determination is as specified in the section of this permit entitled ADDITIONAL SPECIAL TERMS AND CONDITIONS, OPERATIONAL TERMS AND CONDITIONS, Federally Enforceable. The owner or operator shall install, operate, and maintain a cover on each piece of affected coating mix preparation equipment and vent VOC emissions from the covered mix equipment to a control device that is at least 98 percent efficient, which constitutes BACT pursuant to 40 CFR 52.21, while preparation of the coating is taking place within the	vessel, according to 40 CFR 60.742.c.1. Compliance determination is as specified in the section of this permit entitled ADDITIONAL SPECIAL TERMS AND CONDITIONS, OPERATIONAL TERMS AND CONDITIONS, Federally Enforceable. The owner or operator shall install, operate, and maintain a cover on each piece of affected coating mix preparation equipment and vent VOC emissions from the covered mix equipment to a control device that is at least 98 percent efficient, which	constitutes BACT pursuant to 40 CFR 52.21, while preparation of the coating is taking place within the vessel, according to 40 CFR 60.742.c.1. Compliance determination is as specified in the section of this permit entitled ADDITIONAL SPECIAL TERMS AND CONDITIONS, OPERATIONAL TERMS AND CONDITIONS, Federally Enforceable. The owner or operator shall install, operate, and maintain a cover on each piece of affected coating mix preparation equipment and vent VOC emissions from

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the covered mix equipment not to a control device that is at least 98 percent efficient, which constitutes BACT pursuant to 40 CFR 52.21, while preparation of the coating is taking place within the vessel, according to 40 CFR 60.742.c.1. Compliance determination is as specified in the section of this permit entitled ADDITIONAL SPECIAL TERMS AND CONDITIONS, Federally Enforceable. The owner or operator shall install, operate, and maintain a cover on each piece of affected coating mix preparation equipment and vent VOC emissions from the covered mix equipment to a control device that is at least 98 percent	nce determination is as specified in the section of this permit entitled ADDITIONAL SPECIAL TERMS AND CONDITIONS, Federally Enforceable. The owner or operator shall install, operate, and maintain a cover on each piece of affected coating mix preparation equipment and vent VOC emissions from the covered mix equipment to a control device that is at least 98 percent	efficient, which constitutes BACT pursuant to 40 CFR 52.21, while preparation of the coating is taking place within the vessel, according to 40 CFR 60.742.c.1. Compliance determination is as specified in the section of this permit entitled ADDITIONAL SPECIAL TERMS AND CONDITIONS, Federally Enforceable. The owner or operator shall install, operate, and maintain a cover on each piece of affected coating mix preparation equipment and vent VOC emissions from the covered mix equipment to a control device that is at least 98 percent efficient, which constitutes BACT pursuant to 40 CFR 52.21, while	preparation of the coating is taking place within the vessel, according to 40 CFR 60.742.c.1. Compliance determination is as specified in the section of this permit entitled ADDITIONAL SPECIAL TERMS AND CONDITIONS, Federally Enforceable. The owner or operator shall install, operate, and maintain a cover on each piece of affected coating mix preparation equipment and vent VOC emissions from the covered mix equipment to a control device that is at	least 98 percent efficient, which constitutes BACT pursuant to 40 CFR 52.21, while preparation of the coating is taking place within the vessel, according to 40 CFR 60.742.c.1. Compliance determination is as specified in the section of this permit entitled ADDITIONAL SPECIAL TERMS AND CONDITIONS, Federally Enforceable. Install, operate, and maintain a total enclosure around the coating operation and vent the captured VOC

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<p>emissions from the total enclosure control device, according to 40 CFR 60.742.b.2, that is at least 98 percent efficient, according to 40 CFR 52.21.j.2.</p> <p>Install, operate, and maintain a total enclosure control device, according to 40 CFR 60.742.b.2, that is at least 98 percent efficient, which constitutes BACT pursuant to 40 CFR 52.21.j.2.</p> <p>Install, operate, and maintain a total enclosure control device, according to 40 CFR 60.742.b.2, that is at least 98 percent efficient, which constitutes BACT pursuant to 40 CFR 52.21.j.2.</p>	<p>on and vent from the captured VOC emissions from the enclosure to a control device, according to 40 CFR 60.742.b.2, that is at least 98 percent efficient, according to 40 CFR 52.21.j.2.</p> <p>Install, operate, and maintain a total enclosure control device, according to 40 CFR 60.742.b.2, that is at least 98 percent efficient, which constitutes BACT pursuant to 40 CFR 52.21.j.2.</p> <p>Install, operate, and maintain a total enclosure control device, according to 40 CFR 60.742.b.2, that is at least 98 percent efficient, which constitutes BACT pursuant to 40 CFR 52.21.j.2.</p>	<p>least 98 percent efficient, according to 40 CFR 52.21.j.2.</p> <p>The owner or operator shall install, operate, and maintain a cover on each piece of affected coating mix preparation equipment and vent VOC emissions from the covered mix equipment to a control device that is at least 98 percent efficient, which constitutes BACT pursuant to 40 CFR 52.21, while preparation of the coating is taking place within the vessel, according to 40 CFR 60.742.c.1.</p> <p>Compliance determination is as specified in the section of this permit entitled ADDITIONAL SPECIAL TERMS AND CONDITIONS, OPERATIONAL TERMS AND CONDITIONS, Federally Enforceable.</p>	<p>The owner or operator shall install, operate, and maintain a cover on each piece of affected coating mix preparation equipment and vent VOC emissions from the covered mix equipment to a control device that is at least 98 percent efficient, which constitutes BACT pursuant to 40 CFR 52.21, while preparation of the coating is taking place within the vessel, according to 40 CFR 60.742.c.1.</p> <p>Compliance determination is as specified in the section of this permit entitled ADDITIONAL</p>	<p>SPECIAL TERMS AND CONDITIONS, OPERATIONAL TERMS AND CONDITIONS, Federally Enforceable.</p> <p>The owner or operator shall install, operate, and maintain a cover on each piece of affected coating mix preparation equipment and vent VOC emissions from the covered mix equipment to a control device that is at least 98 percent efficient, which constitutes BACT pursuant to 40 CFR 52.21, while preparation of the coating is taking place within the vessel, according to 40</p>

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CFR 60.742.c.1. Compliance determination is as specified in the section of this permit entitled ADDITIONAL SPECIAL TERMS AND CONDITIONS, OPERATIONALLY ENFORCEABLE. The owner or operator shall	install, operate, and maintain a cover on each piece of affected coating mix preparation equipment and vent VOC emissions from the covered mix equipment to a control device that is at least 98 percent efficient, which constitutes BACT pursuant to 40 CFR 52.21, while coating is taking place within the vessel, according to 40 CFR 60.742.c.1. Compliance determination is as specified in the section of this	permit entitled ADDITIONAL SPECIAL TERMS AND CONDITIONS, OPERATIONALLY ENFORCEABLE. The owner or operator shall install, operate, and maintain a cover on each piece of affected coating mix preparation equipment and vent VOC emissions from the covered mix equipment to a control device that is at least 98 percent efficient, which constitutes BACT pursuant to 40 CFR 52.21, while coating is taking place within the vessel, according to 40 CFR 60.742.c.1. Compliance determination is as specified in the section of this permit entitled ADDITIONAL SPECIAL TERMS AND CONDITIONS,	OPERATIONAL TERMS AND CONDITIONS, Federally Enforceable. The owner or operator shall install, operate, and maintain a cover on each piece of affected coating mix preparation equipment and vent VOC emissions from the covered mix equipment to a control device that is at least 98 percent efficient, which constitutes BACT pursuant to 40 CFR 60.742.c.1. Compliance	determination is as specified in the section of this permit entitled ADDITIONAL SPECIAL TERMS AND CONDITIONS, OPERATIONALLY ENFORCEABLE.

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Applica ble Federal & <u>OAC</u> <u>Rules</u>			3745-21-07 (G) (1)	
3745-31- 05 40 CFR Part 60 Subpart VVV 40 CFR 52.21 3745-31- 10 through 20			3745-31-05 40 CFR Part 60 Subpart VVV 40 CFR 52.21 3745-31-10 through 20	3745-21-07 (G) (1)
				3745-31-05
				3745-21-07 (G) (1)
	3745-21-07 (G) (1)			3745-31-05 40 CFR Part 60 Subpart VVV 40 CFR 52.21 3745-31-10 through 20
	3745-31-05 40 CFR Part 60 Subpart VVV 40 CFR 52.21 3745-31-10 through 20			3745-21-07 (D)

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3745-31-05 40 CFR Part 60 Subpart VVV	3745-31-05	3745-31-05 40 CFR Part 60 Subpart VVV	3745-31-05 40 CFR Part 60 Subpart VVV 40 CFR 52.21	3745-31-05 40 CFR Part 60 Subpart VVV 40 CFR 52.21
3745-31-10 through 20	40 CFR Part 60 Subpart VVV	3745-31-10 through 20	3745-31-10 through 20	3745-31-10 through 20
3745-21-07	3745-31-10 through 20	3745-21-07 (D)	3745-21-07 (G) (2)	3745-21-07 (D)
3745-21-3745-21-07 (D)				3745-31-05 40 CFR Part 60 Subpart VVV 40 CFR 52.21
(G) (2)				3745-31-10 through 20
				3745-21-07 (D)

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	through 20	3745-21-07 (D)		
	3745-21-07 (D)			
3745-31-05 40 CFR Part 60 Subpart VVV 40 CFR 52.21				
3745-31-10 through 20				
3745-21-07 (D)				
				3745-31-05 40 CFR Part 60 Subpart VVV 40 CFR 52.21
			3745-31-10 through 20	3745-31-10 through 20
3745-31-05 40 CFR Part 60 Subpart VVV 40 CFR 52.21	3745-31-05 40 CFR Part 60 Subpart VVV 40 CFR 52.21	3745-31-05 40 CFR Part 60 Subpart VVV 40 CFR 52.21	3745-31-10 through 20	
3745-31-10 through 20			3745-21-07 (D)	
3745-31-10 through 20				

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3745-31-
05
40 CFR
Part 60
Subpart
VVV
40 CFR
52.21
3745-31-
10
through
20

3745-21-
07(D)

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	Permit Allowable Mass Emissions and/or Control/Usage Requirements	40 CFR 60.742.b.2, that is at least 98 percent efficient, which constitutes BACT pursuant to 40 CFR 52.21.j.2, with a compliance determination as specified in the section of this permit entitled ADDITIONAL SPECIAL TERMS AND OPERATIONAL TERMS AND CONDITIONS, Federally Enforceable	a control device during actual coating operations, according to 40 CFR 60.742.b.2, that is at least 98 percent efficient, which constitutes BACT pursuant to 40 CFR 52.21.j.2, with a compliance determination as specified in the section of this permit entitled ADDITIONAL SPECIAL TERMS AND CONDITIONS, Federally Enforceable	6.9 TPY CO; Install, operate, and maintain a total enclosure around the coating operation and vent the captured VOC emissions from the total enclosure to a control device during actual coating operations, according to
	1.95 pounds NO _x /hr, 6.8 TPY NO _x ; 12.33 VOC/hr as an average over 3 hours; 96.14 TPY VOC*; 0.47 pound CO/hr, 5.7 TPY CO;	Less stringent than BACT.	Less stringent than BACT.	that is at least 98 percent efficient, which constitutes BACT pursuant to 40 CFR 60.742.b.2, that is at least 98 percent efficient, which constitutes BACT pursuant to 40 CFR 52.21.j.3, with a compliance determination as specified in the section of this permit entitled
	Install, operate, and maintain a total enclosure around the coating operation and vent the captured VOC emissions from the total enclosure to a control device during actual coating operations, according to	1.95 pounds NO _x /hr, 6.8 TPY NO _x ; 12.33 VOC/hr as an average over 3 hours; 96.14 TPY VOC*; 0.47 pound CO/hr, 5.7 TPY CO;	Less stringent than BACT.	the section of this permit entitled ADDITIONAL SPECIAL TERMS AND OPERATIONAL TERMS AND
		Install, operate, and maintain a total enclosure around the coating operation and vent the captured VOC emissions from the total enclosure to	1.95 pounds NO _x /hr, 8.2 TPY NO _x ; 12.33 VOC/hr as an average over 3 hours; 96.14 TPY VOC*; 0.47 pound CO/hr,	TERMS AND

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CONDITI ONS, Federal ly Enforce able				
				Less stringe nt than BACT.
				10.08 pounds VOC/hr 4.7 TPY VOC
				Less stringe nt than BAT
		5.04 pounds VOC/hour 1.10 TPY VOC*		
0.03 TPY VOC**	5.04 pounds VOC/hr 1.10 TPY VOC*			
				Less Stringent than BACT
Less stringe nt than BACT	Less Stringent than BACT			

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0.70
TPY
VOC*, **

Less
stringe
nt than
BACT

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				0.35 TPY VOC*,**
			0.35 TPY VOC*,**	
0.70 TPY VOC*,**	0.32 pound VOC/hour	0.32 pound VOC/hour		Less stringent than BACT
	0.35 TPY VOC*,**	0.35 TPY VOC*,**	Less stringent than BACT	
		Less stringent than BACT		
Less stringent than BACT	Less stringent than BACT			

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
		than BACT		
		0.11 TPY VOC*,**		
0.12 pound VOC/hour	0.12 pound VOC/hour	Less stringent than BACT		0.8 TPY VOC*,**
0.12 TPY VOC*,**	0.12 TPY VOC*,**		0.16 TPY VOC*,**	
Less stringent than BACT	Less stringent than BACT	0.8 TPY VOC*,**		Less stringent than BACT
			Less stringent than BACT.	
	0.11 TPY VOC*,**	Less stringent than BACT		
				Less stringent

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Ohio EPA Source <u>Number</u>	Source Identification <u>Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	Permit Allowable Mass Emissions and/or Control/Usage <u>Requirements</u>
0.16 TPY VOC*,**	0.8 TPY VOC*,**	0.16 TPY VOC*,**		
Less stringe nt than BACT	Less stringent than BACT	Less stringent than BACT.		

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^{1,2} The applicant has submitted 2 possible scenarios for plant modification. Under Scenario A, Treater 1040 will be installed and 1023 will be modified. Under Scenario B, Treater 1040 will be installed and new treater 1041 will also be installed, leaving 1023 unchanged.

¹ These units will be installed/modified if Scenario A is employed.

² These units will be installed if Scenario B is employed.

* The overall VOC emissions from each of 2 thermal oxidizers shall not exceed 23.3 pounds/hour and 102.1 TPY VOC.

** VOC emissions from tanks with TS M/L Resins are less than GETEK. GETEK represents worst case emissions for the project. Either GETEK or TS M/L products are produced on the treater at one time but the system is not capable of producing both simultaneously.

SUMMARY

TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year*</u>
VOC	203.96
NO _x	15.0
CO	12.6

* A new 10,000 gallon VOC storage tank is also being installed as part of this project; it's emissions are DeMinimis (<1 TPY) under OAC 3745-15-05.

NSPS REQUIREMENTS

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The following sources are subject to the applicable provisions of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

<u>Source Number</u>	<u>Source Description</u>
T003	Resin Hold Tanks (14)
P156	Weigh Hopper and Reactor
P157	1
T004	Weigh Hopper and Reactor
	2
T005	Equilibration Hold Tank and Weigh Hopper 1
T006	Equilibration Hold Tank
T007	and Weigh Hopper 2
T008	Mix Tank 1
P158	Mix Tank 2
	Hold Tank 1
P159	Weigh Hopper and Mix Tank
	3
T009	Weigh Hopper and Mix Tank
T010	4
T011	Hold Tank 2
T012	Hold Tank 3
	Hold Tank 4
T013	Gravity Tanks TR 1040 (GETEK)
P154	Gravity Tanks TR 1040 (TS
*T014	M/L) Treater 1040 with Oven
**T017	Gravity Tanks TR 1023 (GETEK)
*P151	Gravity Tanks TR 1023 (TS
T015	M/L) Treater 1023 with Oven
T016	Gravity Tanks TR 1041 (GETEK)
P155	Gravity Tanks TR 1041 (TS
	M/L) Treater 1041 with Oven

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NSPS Regulation (Subpart)

VVV

* Applicable only if Treater 1023 is modified.

** Applicable only if existing TSM/L tanks are replaced or modified.

The application and enforcement of these standards are delegated

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to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and
- d. date of performance testing (If required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Permit Management Unit
P.O. Box 163669
Columbus, OH 43216-3669

and **Ohio EPA, Southeast District Office**
2195 Front Street
Logan, OH 43138

PERFORMANCE TEST REQUIREMENTS

The permittee shall conduct, or have conducted, performance testing on the air contaminant source(s) in accordance with procedures approved by the Agency. Two copies of the written report describing the test procedures followed and the results of such tests shall be submitted and signed by the person responsible for the test. The Director, or an Ohio EPA representative, shall be allowed to witness the test, examine testing equipment, and require the acquisition or submission of data and information necessary to assure that the source operation and testing procedures provide a valid characterization of the emissions from the source and/or the performance of the control equipment.

- A. A completed Intent to Test form shall be submitted to the appropriate Ohio EPA District Office or Local Air Pollution Control Agency where the original permit application was filed. This notice shall be made 30 days in advance and

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shall specify the source operating parameters, the proposed test procedures, and the time, date, place and person(s) conducting such tests.

- B. Two copies of the test results shall be submitted within 30 days after the completion of the performance test.
- C. Tests shall be performed for the following source(s) and pollutants(s):

Source

Pollutants

P034, T003,
P156, P157
T004, T005,
T006, T007,
T008, P158
P159, T009,
T010, T011,
T012, T013
P154, T014,
T017, P151,
T015, T016,
P155

OC and toluene, NO_x

- D. Test shall include a determination of the uncontrolled mass rate of emissions.

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, Southeast District**

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Office, 2195 Front Street, Logan, OH 43138.

WASTE DISPOSAL

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, Southeast District Office, 2195 Front Street, Logan, OH 43138.**

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.

NINETY DAY OPERATING PERIOD

The facility will be permitted to operate during a 90-day period in accordance with OAC Rule 3745-35-02(C)(4)(b). The purpose of

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this period of operation is to fulfill the performance tests conditions used in the determination of compliance with the provisions of this Permit to Install or other applicable Ohio EPA rules.

CONSTRUCTION COMPLIANCE CERTIFICATION

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

ADDITIONAL SPECIAL TERMS AND CONDITIONS

I. OPERATIONAL TERMS AND CONDITIONS

A. Federally Enforceable

1. Incinerator GE6 and either GE7 (if Treater 1041 is installed) or GE2 (if Treater 1023 is modified) shall be operated and maintained such that the control device efficiency (E), determined using Equation (1) specified in 60.743 and the test methods and procedures specified in 60.745 (b) through (g), is equal to or greater than 0.98, which has been determined to represent the Best Available Control Technology requirements pursuant to 40 CFR 52.21.j.2 and 40 CFR 52.21.j.3. The permittee must monitor the thermal incinerators

pursuant to the requirements of 40 CFR 60.744(e) and comply with the reporting and recordkeeping requirements of 40 CFR 60.747(d).

2. Each piece of coating mix preparation equipment shall be vented to a control device meeting the control efficiency required in Paragraph 1 above while preparation of coating is taking place in the equipment.

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B. State Enforceable

1. This permit allows the use of the coatings and cleanup materials specified by the permittee in the application for PTI number 06-5425 or other coatings approved pursuant to the Ohio EPA's "Air Toxics Policy". In conjunction with the best available technology requirements of OAC rule 3745-31-05, the VOC emission limitation(s) specified in this permit were established in accordance with the Ohio EPA's "Air Toxics Policy" and are based on both the coating and cleanup material formulation data and the design parameters of the emissions unit's exhaust system, as specified in the application. Compliance with the Ohio EPA's "Air Toxics Policy" was demonstrated for each pollutant based on the ISCST3, Version 96113 model and a comparison of the predicted 1 hour maximum ground-level concentration to the MAGLC. The following summarizes the results of the modeling for each pollutant:

Pollutant: Toluene

TLV (ug/m3): 188,000 ug/m3

**Maximum Hourly Emission Rate (lbs/hr): 46.6 pounds
VOC/hr**

**Predicted 1 Hour Maximum Ground-Level Concentration at
the Fence line (ug/m3): 803 ug/m3**

**Maximum Acceptable Ground-Level Concentration (MAGLC)
(ug/m3): 4476 ug/m3**

Any of the following changes may be deemed a "modification" to the emissions unit and, as such, prior notification to and approval from the Ohio EPA, Southeast District Office are required, including the possible issuance of modifications to PTI number 06-5425 and the operating permit:

- a. any changes in the composition of the coatings or cleanup materials, or the use of new coatings or cleanup materials, that would

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result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value specified in the above table;

- b. any change to the emissions unit or its exhaust parameters (e.g., increased emission rate, reduction of exhaust gas flow rate, and decreased stack height) that would result in an exceedance of any MAGLC specified in the above table;
- c. any change to the emissions unit or its method of operation that would either require an increase in the emission limitation(s) established by this permit or would otherwise be considered a "modification" as defined in OAC rule 3745-31-01; and,
- d. any change in the composition of the coatings or cleanup materials, or use of new coatings or cleanup materials, that would result in the emission of any of the exempted organic compounds included in the definition of "VOC" [OAC rule 3745-21-01(B)(6)].

This provision will be superseded upon approval by the US EPA of a National Emission Standard for Hazardous Air Pollutants (NESHAP) applicable to any of the operations addressed in this permit.

2. According to the Ohio EPA, Division of Drinking and Ground Water, there shall be no cross connection

between the proposed facilities and any public water supply.

II. MONITORING AND RECORDKEEPING REQUIREMENTS

- A. As specified in 40 CFR 60.744.e, the permittee shall operate and maintain a continuous temperature monitor

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and recorder which measures and records the combustion temperature within the thermal incinerator when any emissions units required by this permit to be vented to the incinerator are in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for the control equipment for each day when any emissions units required by this permit to be vented to the incinerator are in operation:

1. a log of the downtime for the capture (collection) system, control device, and monitoring equipment; and,
 2. all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated that the emissions unit was in compliance.
- B. The permittee shall collect and record the following information each month for all surface coatings and clean up material for the purpose of determining annual organic compound emissions:
1. the company identification for each organic compound containing coating and cleanup material employed;
 2. the number of gallons of each coating including organic compound containing cleanup material employed;
 3. the organic compound content of each coating including cleanup material, in pounds per gallon;

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4. the total controlled organic compound emission rate for all coatings and cleanup materials, in pounds or tons (i.e., calculated using the overall control efficiency from the most recent performance test that demonstrated that the emissions unit was in compliance); and,
 5. the requirements of this paragraph II.B are state-only enforceable and not based on any federal requirement.
- C. The permittee shall install, maintain and operate monitoring devices and a recorder which simultaneously measure and record the pressure inside and outside the permanent total enclosure. The monitoring and recording devices shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall record and maintain the following information on a daily basis:

1. the difference in pressure between the permanent total enclosure and the surrounding area(s); and,
 2. a log or record of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.
- D. The permittee shall maintain records of the total natural gas usage in the treater ovens and the thermal oxidizers to determine compliance with NO_x and CO emissions limits. The requirements of this paragraph II.D are state-only enforceable and not based on any federal requirement.

III. REPORTING REQUIREMENTS

- A. As specified in 40 CFR 60.747.d.4, the permittee shall submit quarterly deviation (excursion) reports which identify all 3-hour blocks of time during which the average combustion temperature within the thermal

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incinerator, when the emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent performance test that demonstrated the emissions unit was in compliance. If no reportable periods have occurred, the permittee shall submit semiannual statements clarifying this fact.

- B. As specified in 40 CFR 60.747.f, the permittee shall submit quarterly summaries which include a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation. If no reportable periods have occurred, the permittee shall submit semiannual statements clarifying this fact.
- C. As specified in 40 CFR 60.747.d.6 The permittee shall submit pressure differential deviation (excursion) reports that identify all periods of time during which the permanent total enclosure was not maintained at the required differential pressure specified above.

IV. EMISSION TESTING REQUIREMENTS

- A. Compliance with the emission limitation(s) in the Emissions Summary of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation (P154)

1.95 pounds/hour NO_x and 6.8 tons/year NO_x

Applicable Compliance Method

Compliance with the above emission limitation for NO_x will be determined by the retention of records and the multiplication of natural gas usage and an AP-42 emission factor. The AP-42 emission factor used shall be 100 pound/10 scf from table 1.4-1 on page 14-5, dated 2/98, for uncontrolled emissions of NO_x. For OEPA source number P154, the permittee will multiply actual annual natural gas usage by the AP-42 emission factor stated above and the result, expressed as tons per year, shall be compared to the NO_x emission limit

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stated above.

Emission Limitation (P155 if installed)

1.95 pounds/hour NO_x and 6.8 tons/year NO_x

Applicable Compliance Method

Compliance with the above emission limitation for NO_x will be determined by the retention of records and the multiplication of natural gas usage and an AP-42 emission factor. The AP-42 emission factor used shall be 100 pounds/10⁶ scf from table 1.4-1 on page 14-5, dated 2/98, for uncontrolled emissions of NO_x. For OEPA source number P154, the permittee will multiply actual annual natural gas usage by the AP-42 emission factor stated above and the result, expressed as tons per year, shall be compared to the NO_x emission limit stated above

Emission Limitation (P151 if modified)

1.95 pounds/hour NO_x and 8.2 tons/year NO_x

Applicable Compliance Method

Compliance with the above emission limitation for NO_x will be determined by the retention of records and the multiplication of natural gas usage and an AP-42 emission factor. The AP-42 emission factor used shall be 100 pounds/10⁶ scf from table 1.4-1 on page 14-5, dated 2/98, for uncontrolled emissions of NO_x. For OEPA source number P154, the permittee will multiply actual annual natural gas usage by the AP-42 emission factor stated above and the result, expressed as tons per year, shall be compared to the NO_x emission limit stated above

Emission Limitation (P154)

0.47 pound/hour and 5.7 tons/year CO

Applicable Compliance Method

Compliance with the above emission limitation for CO

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will be determined by the retention of records and the multiplication of natural gas usage and an AP-42 emission factor. The AP-42 emission factor used shall be 84 pounds/10⁶ scf from table 1.4-1 on page 14-5, dated 2/98, for uncontrolled emissions of NO_x. For OEPA source number P155 (if installed), the permittee will multiply actual annual natural gas usage by the AP-42 emission factor stated above and the result, expressed as tons per year, shall be compared to the CO emission limit stated above.

Emission Limitation (P155 if installed)

0.47 pound/hour and 5.7 tons/year CO

Applicable Compliance Method

Compliance with the above emission limitation for CO will be determined by the retention of records and the multiplication of natural gas usage and an AP-42 emission factor. The AP-42 emission factor used shall be 84 pounds/10⁶ scf from table 1.4-1 on page 14-5, dated 2/98, for uncontrolled emissions of NO_x. For OEPA source number P155 (if installed), the permittee will multiply actual annual natural gas usage by the AP-42 emission factor stated above and the result, expressed as tons per year, shall be compared to the CO emission limit stated above.

Emission Limitation (P151 if modified)

0.47 pound/hour and 6.9 tons/year CO

Applicable Compliance Method

Compliance with the above emission limitation for CO will be determined by the retention of records and the multiplication of natural gas usage and an AP-42 emission factor. The AP-42 emission factor used shall be 84 pounds/10⁶ scf from table 1.4-1 on page 14-5, dated 2/98, for uncontrolled emissions of NO_x. For OEPA source number P155 (if installed), the permittee will multiply actual annual natural gas usage by the AP-42 emission factor stated above and the result, expressed as tons per year, shall be compared to the CO

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emission limit stated above.

Emission Limitation (P154 and either Unit P155, if installed, or P151, if modified, and associated units)

23.14 pounds/hour and 101.35 tons/year VOC; overall limitation for each thermal oxidizer (individual emissions limits for all units venting to a thermal oxidizer shall be considered to be met if this limit is met.)

Applicable Compliance Method

Method 25, 40 CFR Part 60, Appendix A

"Emission Limitation (Treater 1040 and either Treater 1041 (if installed) or Treater 1023 (if modified))"

Coating operation total enclosure

Applicable Compliance Method (Treater 1040 and either Treater 1041 (if installed) or Treater 1023 (if modified))

40 CFR 60, subpart VVV, §60.743(b)(1)

Emission Limitation (Thermal Oxidizer GE6 and either Thermal Oxidizer GE7 (if Treater 1041 is installed) or Thermal Oxidizer GE2 (if Treater 1023 is modified))

98 percent efficient control device

Applicable Compliance Method

Method 204, 40 CFR Part 51, Appendix M

Emission Limitation (Coating Mix Preparation Equipment)

Install, operate and maintain a cover on each piece of affected coating mix preparation equipment and vent VOC emissions from the covered mix equipment to a 98 percent efficient control device while preparation of

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the coating is taking place within the vessel.

Applicable Compliance Method (Coating Mix Preparation Equipment)

40 CFR 60, Subpart VVV, § 60.743(c)."

"Emission Limitation for VOC: Source Number P160

10.08 pounds/hour and 4.7 tons/year VOC. .

Applicable Compliance Method for VOC: Source Number 160

One time calculation using emission factors developed from batch model analysis in the AEMS Software package from Envirometrics."

- B. The permittee shall conduct, or have conducted, emission testing for P154, P155 (if installed), P151 (if modified) and associated units in accordance with the following requirements:
1. The emission testing shall be conducted approximately 2.5 years after permit issuance and within 6 months prior to permit renewal.
 2. The emission testing shall be conducted to demonstrate compliance with the overall control efficiency limitation for VOC.
 3. The test method(s) which must be employed to demonstrate compliance with the overall control efficiency limitation for VOC are specified below - if applicable. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 4. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Southeast District Office.

The capture efficiency shall be determined using Methods 204 through 204F, as specified in 40 CFR Part 51, Appendix M, or the permittee may request

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to use an alternative method or procedure for the determination of capture efficiency in accordance with the USEPA's "Guidelines for Determining Capture Efficiency," dated January 9, 1995. (The Ohio EPA will consider the request, including an evaluation of the applicability, necessity, and validity of the alternative, and may approve the use of the alternative if such approval does not contravene any other applicable requirement.)

The control efficiency (i.e., the percent reduction in mass emissions between the inlet and outlet of the control system) shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-21-10, 40 CFR 60.743 and 40 CFR 60.745. The test methods and procedures selected shall be based on a consideration of the diversity of the organic species present and their total concentration, and on a consideration of the potential presence of interfering gases.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Southeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, Southeast District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, Southeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of

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the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Southeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Southeast District Office.